

#### BY RESS & OVERNIGHT COURIER

August 17, 2015

Ms. Kirsten Walli Board Secretary Ontario Energy Board P.O. Box 2319 2300 Yonge Street Suite 2700 Toronto, Ontario M4P 1E4

Dear Ms. Walli:

Re: Enersource Hydro Mississauga Inc.

Application for Distribution Rates Effective January 1, 2016

**Board File No. EB-2015-0065** 

Please find enclosed the application and evidence (the "Application") submitted by Enersource Hydro Mississauga Inc. ("Enersource") for new rates under the Fourth Generation Incentive Rate-setting (Price Cap IR), effective January 1, 2016.

Two sets of hard copies will be sent to the Board in addition to filing this via RESS.

If you have any questions or concerns, please do not hesitate to contact me at (905) 283-4098.

Sincerely,

(Original signed by)

Gia M. DeJulio Director, Regulatory Affairs

cc. Norm Wolff, Executive Vice-President and Chief Financial Officer

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1		ONTARIO ENERGY BOARD
2 3 4		IN THE MATTER OF the Ontario Energy Board Act, 1998, S.O.1998, c.15 (Sched. B), as amended;
5 6 7 8 9		<b>AND IN THE MATTER OF</b> an application by Enersource Hydro Mississauga Inc. for an order or orders approving or fixing just and reasonable distribution rates and other charges, to be effective January 1, 2016.
10		APPLICATION
1  2  3  4	1.	Enersource Hydro Mississauga Inc. ("Enersource" or "the Applicant") distributes electricity to the City of Mississauga, pursuant to a distribution license (ED-2003-0017) issued by the Ontario Energy Board (the "Board"), and charges Board-authorized rates (per EB-2012-0033 and EB-2014-0068) for the distribution service it provides.
16 17 18	2.	Pursuant to section 78 of the <i>Ontario Energy Board Act, 1998</i> , Enersource seeks an order or orders of the Board establishing distribution rates and specific service charges effective January 1, 2016.
19 20 21 22 23 24	3.	This application (the "Application") is prepared in accordance with, among other Board guidelines and directions, the Update to Chapter 3 of the Board's Filing Requirements for Electricity Distribution Rate Applications, dated July 16, 2015; the Letter from the Board dated July 16, 2015 to Licensed Electricity Distributors re: I. Updated Filing Requirements; and, II. Process for 2016 Incentive Regulation Mechanism ("IRM") Distribution Rate
25 26		Applications; Revision 4.0 of the Guideline G-2008-0001 – Electricity

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- July 31, 2009 Report of the Board on Electricity Distributors' Deferral and Variance Account Review Initiative (the "EDDVAR Report"); and is supported by written evidence that may be amended from time to time, prior to the Board's final decision on this Application.
- 4. Enersource has utilized the Board's 2016 IRM Rate Generator (v. 1.0
   issued July 30, 2015).
- 33 5. Enersource applies for Board approval for the following matters:
- 2016 distribution rates effective January 1, 2016, based on 2015 rates
   adjusted for a price cap adjustment;
- rate riders to clear Group 1 account balances effective January 1, 2016 to December 31, 2016;
- shared tax rate riders effective January 1, 2016 to December 31, 2016;
- incremental capital rate riders effective January 1, 2016 until the next
   cost of service rate application;
- adjusted Retail Transmission Service Rates ("RTSRs"); and
- 2016 Renewable Generation Funding from provincial ratepayers.
- 43 6. Enersource respectfully requests that this Application be disposed of by 44 way of a written hearing. This approach is reasonable and supported by 45 the evidence contained herein.
- 7. The Applicant requests that a copy of all documents filed with the Board in this proceeding be served on the Applicant as follows:

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48 49 50 51	Enersource Hydro Mississauga Inc. 2185 Road Derry West, Mississauga, ON L5N 7A6	
52 53 54	Attn: Gia M. DeJulio Director, Regulatory Affairs Email: regulatoryaffairs@enersource.com	
55 56	Tel: 905-283-4098 Fax: 905-566-2737	
57	DATED at Mississauga, Ontario, this 17 <sup>th</sup> day of August, 2015.	
58 59 60 61	Gia M. DeJulio Director, Regulatory Affairs Enersource Hydro Mississauga Inc.	\

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# Manager's Summary

- 2 Enersource Hydro Mississauga Inc. ("Enersource") is applying for distribution rates
- 3 pursuant to a Fourth Generation Incentive Rate-setting ("Price Cap IR") application
- 4 (this "Application") to set distribution rates and other charges, to be effective January
- 5 1, 2016. This Application affects all distribution ratepayers in the area served by
- 6 Enersource.

- 7 Enersource has completed the 2016 IRM Rate Generator Model provided by the
- 8 Ontario Energy Board (the "OEB" or the "Board"). This Application has been prepared
- 9 in accordance with the updated Chapter 3 of the Board's Filing Requirements for
- 10 Electricity Distribution Rate Applications (the "Filing Requirements"), dated July 16,
- 11 2015, including the key OEB reference documents listed therein, the letter from the
- 12 Board, dated July 16, 2015 to licensed electricity distributors on the process for 2016
- 13 Incentive Regulation Mechanism ("IRM") Distribution Rate Applications, (the "2016
- 14 Price Cap IR Process Letter"), and other guidelines and directions from the Board.
- 15 This Manager's Summary covers the following topics:
- 16 1. How This Filing is Organized;
- 17 2. Relief Sought in This Application;
- 18 3. Matters Addressed in This Filing;
- 19 4. Other Matters; and
- 5. Summary of Bill Impacts.

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## 1 1. How This Filing is Organized

- 2 This filing consists of three tabs and is organized as follows:
- 3 Tab 1 Application
- 4 Tab 2 Manager's Summary
- 5 Tab 3 Attachments
- 6 This Tab 2 is the Manager's Summary which discusses the rate changes proposed
- 7 and discusses the matters addressed in this filing.

## 2. Relief Sought in This Application

- 9 Enersource seeks Board approval for the following:
- 2016 distribution rates effective January 1, 2016, based on 2015 rates adjusted for
- 11 a price cap adjustment;

- rate riders to clear Group 1 deferral and variance account balances effective
- 13 January 1, 2016 to December 31, 2016;
- shared tax rate riders effective January 1, 2016 to December 31, 2016;
- incremental capital rate riders effective January 1, 2016 until the next cost of
- service rate application;
- adjusted Retail Transmission Service Rates ("RTSRs"); and
- 2016 Renewable Generation Funding from provincial ratepayers.

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## 3. Matters Addressed in This Filing

- 2 Enersource addresses the following items in this filing:
- 3 3.1 Current Tariff Sheet as Approved by the Board
- 4 Enersource presents the current, effective as of January 1, 2015, OEB-approved
- 5 distribution rates, as per EB-2012-0033 and EB-2014-0068 Rate Orders dated
- 6 January 24, 2013 and December 4, 2014, respectively, as Attachment A. The
- 7 information therein is shown as Sheet 2 of the OEB's 2016 IRM Rate Generator Model
- 8 (the "Rate Generator Model").

- 9 3.2 Disposition of Group 1 Deferral and Variance Accounts
- 10 Enersource is applying for approval to dispose of the balances of Group 1 deferral and
- variance accounts as at December 31, 2014, including interest to December 31, 2015.
- 12 Enersource has relied on the July 31, 2009 Report of the Board on Electricity
- 13 Distributors' Deferral and Variance Account Review Initiative (the "EDDVAR Report")
- which directs Distributors to review Group 1 account balances in an IRM application.
- 15 Enersource has completed the review of all of its Group 1 deferral and variance
- 16 account balances, and proposes to recover the Group 1 account balances as at
- 17 December 31, 2014, including forecasted interest up to December 31, 2015, totalling
- 18 \$10.6 million.
- 19 As part of this Application and in accordance with the general guidelines of the
- 20 EDDVAR Report, Enersource provides the following:

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- The continuity schedule of Group 1 Account balances and a reconciliation to the
   OEB Reporting and Record Keeping Requirements ("RRR") for December 31,
   2014. This is found on Sheet 3 of the Rate Generator Model, provided at
   Attachment D;
- A certification by the Chief Executive Officer that the information filed is
   consistent with the Board's standards. This certification is provided at
   Attachment E; and
  - A confirmation that the Board-approved balance in Enersource's IRM rate application, for the 2014 rate year, EB-2013-0124, was transferred to Account 1595 in accordance with the Board's Decision. A supporting continuity schedule is found at Sheet 3 of the Rate Generator Model, provided at Attachment D.
- 13 Furthermore, Enersource confirms that it relies upon an accrual-based approach for all
- 14 Retail Settlement Variance Accounts ("RSVA") as at December 31, 2014, and the
- 15 variance between Board-approved and actual line losses are reflected in Account
- 16 1588 RSVA Power.

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- 17 Enersource also relied upon the Board's prescribed interest rates applicable to the
- 18 Approved Regulatory Accounts of Natural Gas Utilities, Electricity Distributors and
- 19 Other Rate-Regulated Entities (which the Board updates quarterly) to calculate the
- 20 carrying costs on the deferral and variance account balances. The prescribed interest
- 21 rate for the third guarter of 2015 of 1.10% was relied upon to calculate the forecasted
- interest for 2015.

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- 1 Enersource is requesting disposition of these deferral and variance account balances,
- 2 including interest to the end of 2015, of \$10.6 million over a one-year period
- 3 commencing January 1, 2016. This amount includes the subsequent disposition of
- 4 Account 1595 related to the disposition of 2010 (EB-2011-0266) Group 1 account
- 5 balances, 2011 (EB-2012-0033) Groups 1 and 2 account balances and 2012 (EB-
- 6 2013-0124) Group 1 account balances. Specific Group 1 account balances as at
- 7 December 31, 2014, with forecasted interest to December 31, 2015, can be found in
- 8 the Rate Generator Model (shown in the Continuity Schedule on Sheet 3) provided at
- 9 Attachment D.
- 10 Exception to Rate Generator Model
- 11 Enersource has created a separate model that replicates the billing determination,
- 12 allocation, and calculation of variance and deferral account rate riders for Group 1
- disposition found in the Rate Generator Model (Sheets 4 to 6). This model is provided
- 14 at Attachment G, Enersource Disposition Adjustment.
- 15 Within this Enersource Disposition Adjustment Model are six separate sheets. A
- 16 description of each sheet is as follows:
- Sheet 1 ("1. Billing Det. For Def-Var") provides the billing determination for the
- deferral and variance accounts based on Enersource's December 31, 2014
- 19 RRR filing and provides the threshold calculation for all Group 1 accounts;
- Sheet 2 ("2. Allocation of Def-Var Balances") provides the allocation of deferral
- 21 and variance account balances to the respective customer classes for all Group
- 22 1 accounts (excluding Account 1589 Global Adjustment). The Global

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Tab 2

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- Adjustment portion from the 1595 balances have been isolated so that the rate rider associated with those balances are charged only to Non-RPP and Non-Wholesale Market Participants. The allocation of the 1595 balances to rate classes are in the same proportion to the recovery share as established when the rate riders were implemented. The total allocation of deferral and variance account balances, excluding 1589 Global Adjustment, which totals a refund of \$790 thousand, reconciles to the total Group 1 Balance excluding Global Adjustment on Sheet 3 of the Board's Rate Generator Model;
  - Sheet 3 ("3. Calculation of Def-Var RR") provides the calculation of deferral and variance account rate riders to the respective customer classes for all Group 1 accounts (excluding Account 1589 Global Adjustment);
- Sheet 4 ("4. Calculation of GA RR") provides the allocation of deferral and variance account balances and the calculation of the associated rate riders to the respective customer classes for Account 1589 Global Adjustment;
  - Sheet 5 ("5. Summary of Def-Var RR") provides a summary of all proposed deferral and variance account rate riders to the respective customer classes; and
  - Sheet 6 ("6. Final Tariff Schedule") summarizes by rate class, the proposed Tariff of Rates and Charges generated from the Board's Rate Generator Model as well as Enersource's Disposition Adjustment Model.
- Within Enersource's Disposition Adjustment Model, Sheets 1, 2 and 3 are consistent with the Board's Rate Generator Model, specifically, Sheets 4, 5, and 6, respectively;
- 23 however, Sheets 4 and 5 within Enersource's Disposition Adjustment Model were

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1 required to accommodate the appropriate allocation of Account 1589 Global 2 Adjustment. Prior to 2014, Enersource billed non-RPP interval customers using the 3 second estimate of Global Adjustment provided by the Independent Electricity System 4 Operator (the "IESO"). Non-RPP, non-interval customers were billed using the first 5 estimate of Global Adjustment as provided by the IESO. Because of these billing 6 differences, Enersource has deviated from the Rate Generator Model for the 7 calculation of rate riders. Beginning in 2014, Enersource billed all non-RPP customers 8 using the first estimate of Global Adjustment as provided by the IESO.

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In Enersource's Disposition Adjustment Model, Sheet 4, Table 1 illustrates the determination of Account 1589 Global Adjustment between interval and non-interval customers. The revenue of \$493.2 million related to the Global Adjustment was determined from 2013 and 2014 actual non-RPP customer bills for interval and noninterval customers. The cost of \$504.4 million related to Global Adjustment was determined from the actual 2013 and 2014 IESO invoices related to Class B customers, excluding those on RPP. For 2013, Enersource allocated the 2013 cost to interval and non-interval customers based on actual 2013 consumption. An allocation of 2014 costs to interval and non-interval customers was not required as all non-RPP customers were billed using the first estimate Global Adjustment. Forecast interest to December 31, 2015 is calculated using the Board's latest prescribed interest rate of 1.10%, and amounts to a recovery of \$300 thousand. Table 1 (on Sheet 4 of the Enersource Disposition Adjustment Model) shows a \$3.3 million difference between Global Adjustment revenue and costs as at December 31, 2013. Enersource proposes to recover \$700 thousand from non-RPP interval customers and \$2.6 million from non-RPP non-interval customers. Table 1 also shows an \$8.1 million difference

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- 1 between Global Adjustment revenue and costs as at December 31, 2014. Enersource
- 2 proposes to recover this amount from all non-RPP customers.
- 3 Tables 2 and 3 found at Sheet 4 of the Enersource Disposition Adjustment Model
- 4 illustrate the allocation and calculation of the Account 1589 balance to the respective
- 5 interval and non-interval customer classes. Enersource allocated the recovery of \$700
- 6 thousand to non-RPP interval customers, and the recovery of \$2.6 million to non-RPP
- 7 non-interval customers to each customer class consistent with the methodology in the
- 8 Board's Rate Generator Model. Note that in Tables 2 and 4 the calculation of the
- 9 Large Use Global Adjustment rate rider only pertains to Class B customers and will
- only be applied in the future to the respective Class B Large Use customers.
- 11 Sheet 5 of the Enersource Disposition Adjustment Model shows a summary of the
- 12 deferral and variance account rate riders. Table 1 on Sheet 5 shows rate riders
- applicable to all customer classes, and Table 2 shows rate riders applicable to non-
- 14 RPP customers.
- 15 Sheet 6 of the Enersource Disposition Adjustment Model is a proxy tariff schedule that
- 16 includes Group 1 deferral and variance account riders per Enersource's model and the
- 17 remainder of the rates from the Board's Rate Generator Model and Capital Module
- 18 Applicable to ACM and ICM.
- 19 Summary of the Disposition of Group 1 Deferral and Variance Accounts
- 20 Enersource is requesting to dispose of \$10.6 million in Group 1 deferral and variance
- 21 account balances over a one-year period commencing January 1, 2016. Enersource
- 22 proposes to dispose of this amount by adjusting the rate riders calculated in the
- 23 Board's Rate Generator Model. Enersource has replaced the rate riders identified in

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- 1 the Board's Rate Generator Model (Sheet 6) with proposed rate riders as calculated
- and shown on Sheet 5 of Enersource's Disposition Adjustment Model (Attachment G).
- 3 3.3 Global Adjustment
- 4 The Board's Filing Requirements for 2016 Rate Applications requires each distributor
- 5 to provide a description of its settlements process with the IESO or host distributor.
- 6 Distributors must specify the Global Adjustment rate used when billing customers for
- 7 each rate class, itemize the process for providing consumption estimates to the IESO,
- 8 and describe the true-up process to reconcile estimates of RPP and non-RPP
- 9 consumption once actuals are known. Enersource has included its RPP settlements
- 10 process as Attachment I.
- 11 As of July 1, 2015, per O. Reg 429/04, an eligible customer with a maximum hourly
- demand over three megawatts, but less than five megawatts, can elect to become a
- 13 Class A customer for an applicable adjustment period of one year. As part of the Filing
- 14 Requirements, a Distributor must identify the number of Class A customers served in
- 15 2014 and being served in 2015, and report the combined peak demand factor of its
- 16 Class A customers for each period.
- 17 Table 1 identifies the number of Class A customers served by Enersource and the
- 18 combined peak demand factor for each adjustment period:

#### 19 Table 1: Enersource Class A customers

Adjustment Period	Number of Class A Customers	Peak Demand Factor
July 1, 2015 – June 30, 2016	18	0.00496374
July 1, 2014 – June 30, 2015	8	0.00421792

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- 1 Enersource added an incremental ten new Class A eligible customers from the over
- 2 three megawatt, but less than five megawatt rate class. Included in Enersource's
- 3 request for approval to dispose of the balances of Group 1 deferral and variance
- 4 accounts, is an \$11.4 million Global Adjustment balance as at December 31, 2014,
- 5 including interest to December 31, 2015.
- 6 The ten new Class A eligible customers contributed to the balance in this variance
- 7 account prior to them being classified as Class A customers. For this reason these ten
- 8 customers will be charged the applicable proposed Global Adjustment rate rider
- 9 requested in this application. Global Adjustment variances from January 1, 2015 to
- June 30, 2015, prior to the customers being eligible for Class A, will also be recovered
- 11 or refunded to these customers in the future. These customers however, will be
- 12 charged actual Global Adjustment effective July 1, 2015 and will cease to contribute to
- 13 any future Global Adjustment variance.
- 14 3.4 Retail Transmission Service Rates (RTSRs) Adjustment
- 15 As calculated in the RTSR worksheets 9 14 of the Rate Generator Model,
- 16 Enersource has adjusted its RTSRs based on a comparison of historical transmission
- 17 costs for new Uniform Transmission Rate ("UTR") levels (Sheet 11, Historical
- 18 Wholesale) and revenues generated from existing RTSRs (Sheet 14, Rates to
- 19 Forecast). The RTSR Adjustment worksheets calculate the expected billing for 2016
- 20 by taking the forecasted 2016 UTR applied against historical transmission units. The
- 21 calculations in Sheet 14, RTSR Rates to Forecast, identify an average decrease of
- 22 2.01% in the Network Transmission Rates and an average increase of 2.93% in the
- 23 Line and Transformation Connection Service Rates.

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- 1 Note that in the RTSR Sheet 9, RRR Data, Enersource has included an applicable
- 2 loss factor of 1.0 to ensure the Rate Generator Model accurately uses non-loss
- 3 adjusted consumption and demand to calculate RTSRs. Enersource chose not to
- 4 adjust any of the transmission service charge determinants for losses as per section
- 5 11.3.2.4, Step Three: Calculating Retail Transmission Service Rate, of the First
- 6 Generation Performance Based Regulation for Electricity Distributors Distribution
- 7 Rate Handbook, issued March 29, 2001, and continues to bill customers in this
- 8 manner.
- 9 The forecasted 2016 RTSRs are calculated using the current 2015 UTRs. Enersource
- understands that the Board will adjust the RTSRs in each distributor's rate application
- 11 model and resulting OEB Decision once the actual UTRs are determined.
- 12 3.5 Renewable Generation Connection Funding Amounts
- 13 Enersource filed a basic Green Energy Plan (the "GEA Plan") which was approved by
- 14 the Board in Enersource's 2013 cost of service application proceeding (EB-2012-
- 15 0033). The GEA Plan identified the projects and expenditures associated with the
- 16 connection of renewable generation to its system and discussed constraints on the
- 17 ability to connect renewable generation. The GEA Plan was filed in accordance with
- 18 the Filing Requirements: Distribution System Plans Filing under Deemed Conditions
- 19 of Licence (EB-2009-0397), which requires distributors to identify the costs related to
- 20 the connection of FIT and microFIT projects and/or to the implementation of a smart
- 21 grid. The GEA Plan did not include any smart grid initiatives. Enersource records the
- 22 revenues related to Renewable Generation in Account 1533, Renewable Generation
- 23 Connection Funding Adder Deferral Account. Accordingly, all associated costs related

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- 1 to Renewable Generation are recorded in Account 1531, Renewable Connection
- 2 Capital Deferral Account and Account 1532, Renewable Connection OM&A Deferral
- 3 Account.
- 4 Attachment F includes the actual amounts for 2014 and provides an updated estimate
- 5 for 2015 and 2016 Renewable Generation Connection funding and costs.
- 6 Enersource continues to connect renewable generators to its distribution system.
- 7 Table 2 below provides the total number of FIT and microFIT applications received by
- 8 Enersource as of the end of June, 2015. These figures include all projects listed on the
- 9 IESO's FIT Application Management Environment (FAME) and microFIT LDC Admin
- 10 web portals, as well as all projects for which initial capacity checks have been
- 11 requested to be performed by Enersource, and which may or may not be registered
- with the IESO. Table 2 also provides a summary of the number of renewable energy
- projects connected as of the end of June, 2015, and the corresponding total installed
- 14 capacity for those projects.

#### 15 Table 2: Renewable Connections as of June 30, 2015

Type of Renewable Generation	Number of Applications Received	Total Number of Projects Connected	Total kW of Projects Connected
MicroFIT (≤10 kW)	1,277	274	1,939
FIT (>10 kW)	1,025	64	11,166
Total	2,302	338	13,105

- 16 Enersource's Renewable Generation Connection Funding Amount includes a forecast
- of the total number of renewable generation projects to be connected. The estimates
- 18 are shown in Table 3 below.

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#### 1 Table 3: Actual/Forecast of Renewable Generation Project Connections

		Actual					New fo	orecast
	2010	2011	2012	2013	2014	2015 YTD	2015	2016
Actual/For	ecast Nun	nber of Re	newable (	eneration	Projects	Connected	t	
microFIT	28	35	57	64	41	49	80	65
FIT	0	10	6	9	26	13	20	30
Total	28	45	63	73	67	62	100	95
Actual/For	ecast Tota	l kW of Re	enewable	Generatio	n Projects	Connecte	d (kW)	
microFIT	149	226	346	420	326	472	700	570
FIT	0	1,725	1,185	2,100	4,412	1,744	3,500	5,250
Total	149	1,951	1,531	2,520	4,738	2,216	4,200	5,820
Actual/For	Actual/Forecast Number of Renewable Generation Projects Applications Received							
microFIT	54	17	221	212	176	121	200	175
FIT	37	78	239	195	62	151	200	100
Total	92	25	460	407	238	272	400	275

- The forecasted microFIT connections in 2015 have increased from 50 projects, as outlined in the original forecast provided in 2015 IRM Rate Application (EB-2014-0068), to 80 projects, as shown in Table 3. This was caused by a significant influx of applications received by Enersource at the end of 2014 due to the announced microFIT rate reductions effective January 1, 2015. This has resulted in a higher than forecasted number of microFIT connections in the beginning of 2015.
- 8 The forecasted microFIT connections in 2016 are expected to be 65 projects.
- 9 It is important to note that the 2015 forecast for FIT projects has not changed 10 compared to what was filed in EB-2014-0068; however, the forecast for FIT projects 11 for 2016 has increased to 30 projects, compared to 20 projects forecasted for 2015.

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- 1 This is due to a school board being awarded with approximately 70 IESO FIT contracts
- which are expected to be connected over the 2016-2017 period.
- 3 Enersource is requesting to collect renewable generation funding of \$105,010 in 2016,
- 4 or \$8,751 per month from all provincial ratepayers, as shown in Attachment F.
- 5 3.5 Price Cap Adjustment
- 6 The calculation of the price cap adjustment is shown at Sheet 15, Rev2Cost\_GDPIPI,
- 7 of the 2016 IRM Rate Generator (version 1.0 issued July 30, 2015). Based on filing
- 8 instructions, this information is to be updated by the Board once the final 2016 GDP-
- 9 IPI data has been published by Statistics Canada later in 2015.
- 10 The price cap adjustment will be applied to the Service Charge and Distribution
- 11 Volumetric Rate. The price cap adjustment will not be applied to the funding adders,
- 12 rate riders, Low Voltage Service Charges, Retail Transmission Service Rates, the
- 13 Wholesale Market Service Rate, the Rural Rate Protection Charge, the Standard
- 14 Supply Service Administrative Charge, microFIT service charge, Specific Service
- 15 Charges, Standby Service Charges, Transformation and Primary Metering Allowances,
- 16 Retail Service Charges or Loss Factors.
- 17 3.6 Estimated 2016 Tariff of Rates and Charges
- 18 The proxy tariff sheet as calculated by the 2016 IRM Rate Generator has been
- 19 replaced with a proxy tariff sheet in Enersource's Disposition Adjustment Model (Sheet
- 20 6). This tariff sheet accommodates the adjustments made in Enersource's Disposition
- 21 Model. Pursuant to the Board's Rate Generator Model, a 1.45% rate increase has
- been utilized for the purpose of creating this proxy tariff sheet.

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- 1 3.7 Bill Impacts
- 2 The impacts of the proposed rate adjustments on the total bill are presented in
- 3 Attachment C. Please also refer to Section 5 of this Manager's Summary.
- 4 3.8 2016 IRM Rate Generator
- 5 The 2016 IRM Rate Generator has been included as Attachment D of this filing.
- 6 4. Other Matters
- 7 4.1 Cost Allocation
- 8 In EB-2012-0033, Enersource's 2013 cost of service proceeding, the Board approved
- 9 Enersource's current cost allocation methodology. Enersource remains in compliance
- 10 with the requirements of the Board Report on Application of Cost Allocation for
- 11 Electricity Distributors (EB-2007-0667) and therefore proposes no change in cost
- 12 allocation.
- 13 4.2 Tax Sharing
- 14 Enersource has completed the 2016 Shared Tax Savings Model within the Rate
- 15 Generator Model and is requesting a rate rider as a result of legislative changes to
- 16 corporate income tax rates from the income tax rates approved in Enersource's 2013
- 17 cost of service proceeding (EB-2012-0033). Enersource is requesting the recovery of
- 18 an additional \$31 thousand of incremental income tax expense as calculated in Sheet
- 19 7. STS Tax Change of the Rate Generator Model. The rate riders resulting from the
- 20 tax change are calculated in Sheet 8. Shared Tax Rate Rider.

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### 1 4.3 Incremental Capital Module

- 2 Enersource is applying for a rate rider in accordance with Chapter 3 Filing
- 3 Requirements for Transmission and Distribution Applications pertaining to incremental
- 4 capital expenditures. This Application requests a rate rider effective January 1, 2016
- 5 and affects all distribution ratepayers in the area served by Enersource.
- 6 This section covers the following topics:

7	4.3.1	Introduction
8	4.3.2	Timing
9	4.3.3	Materiality
10	4.3.4	Eligible Incremental Capital
11	4.3.5	Need
12	4.3.6	Prudence
13	4.3.7	Revenue Requirement
14	4.3.8	Rate Riders
15	4.3.9	Conclusion

## 16 4.3.1 <u>Introduction</u>

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17 Enersource's Capital Planning objectives are as follows:

 To align with Enersource's Corporate Strategic Objectives of Customer Focus,
 Operational Effectiveness, Public Policy Responsiveness and Financial Performance;

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- To optimize projects by ranking investment criteria and comparing project
   benefits;
  - To ensure that investments are financially sound using the approved budget and required resources;
    - To provide high quality customer service by evaluating customer value and maintain reliability at levels preferred by its customers;
    - To provide cost efficiency by considering timing of projects, resources and contingency scenarios;
    - To improve future investment decisions by analyzing historical investment trends; and
    - To pace investment expenditures to minimize rate impact.

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The Capital Planning Process is undertaken annually as a component of the annual financial and business planning process of Enersource. The process includes the development of detailed departmental business plans. Investment requirements and implementation plans to achieve identified objectives are included in the business plans. Objectives requiring material (greater than \$600,000) investment or requiring cross departmental resources are specifically identified and supported by a business case.

The capital and operational expenditure requests identified in the business plans are compiled and assessed against Enersource's capital planning objectives identified above. The quantity and timing of resources required to execute the prioritized list of projects are assessed for resource availability.

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- 1 The forecasted investment plan takes into consideration customer expectations and 2 preferences, public policy responsiveness and stakeholder requirements. Enersource
- 3 prioritizes projects and programs based on a set of business values, and assessments
- 4 are made regarding investment proposals which have the greatest impact on the
- 5 business values. Due to resource constraints (e.g., appropriate funding, labour
- 6 availability, information technology support) and other considerations such as the rate
- 7 impact to customers, other stakeholders and the environmental requirements, projects
- 8 and programs are selected and prioritized based on supplemental quantitative and
- 9 qualitative analysis.

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- 11 One of the primary goals for Enersource is to pace and prioritize capital investments in
- 12 a manner that considers resource needs and rate impacts. To facilitate the
- 13 achievement of this goal, Enersource reviews and analyzes programs and projects
- 14 both qualitatively and quantitatively based on Enersource's Comprehensive Asset
- 15 Management Policy ("CAMP").

- 17 At a high level, the long-term objective of Enersource's CAMP is to achieve an
- 18 investment plan that is:
- Risk based: Incorporate risk management appropriately into decision making
   strategy;
- **Sustainable**: Optimize asset life cycle value:
- **Multi-disciplinary**: Asset management accountability framework crosses departmental and discipline boundaries;
- Integration Oriented: View assets in their total relative value context;

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- Optimal: Strike the right balance amongst competing objectives, such as short term performance and reliability versus long-term planning and sustainability;
   and
  - **Systematic:** Rigorously applied in a structured management system complete with a monitoring framework and evidentiary structures and tools.

An asset reaches its economic end-of-life when the annualized capital cost of replacing the asset becomes less than the annualized risk cost of continuing to operate the asset. Replacing the asset any sooner than the optimal intervention time risks wasting the remaining useful life of the asset, while replacing the asset after the optimal intervention time risks incurring unnecessary and avoidable costs associated with asset failure. The objective of this risk-based approach is to minimize the total lifecycle or operational cost of the equipment in order to maximize the value derived from the assets. Enersource believes that by efficient and effective planning, Enersource can renew a portion of its distribution system annually that will help it reduce customer outages, weather related failures, mitigate environmental concerns and lead to distribution rates that are just and reasonable.

18 4.3.2 <u>Timing</u>

Enersource seeks Board approval for a distribution rate rider to recover incremental capital expenditures as identified in this Application. The effective date of the requested rate rider is January 1, 2016.

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#### 1 4.3.3 Materiality

- 2 The Board requires that evidence for relief for incremental capital must demonstrate
- 3 that the materiality threshold test has been met and that the amounts will have a
- 4 significant influence on the operation of the distributor.
- 5 The ICM materiality threshold determined by the Board is represented by the following
- 6 formula:

Threshold Value = 
$$1 + (\frac{RB}{d})^* (g + PCI^* (1 + g)) + 20\%$$

Where:

RB = rate base included in base rates (\$);

d = depreciation expense included in base rates (\$);

g = distribution revenue change from load growth (%); and

PCI = price cap index (% inflation less productivity factor less stretch factor).

The values for "RB" and "d" are the Board-approved amounts in the distributor's base year rate decision.

- The value for "g" is the percentage difference in distribution revenues between the most current complete year and the base year.
- 9 Enersource has calculated a materiality threshold of \$44.1 million using the Board's
- 10 2016 Capital Module Applicable to ACM and ICM ("the Capital Module"), issued July
- 11 30, 2015. The threshold calculation can be found on Sheet 9, Threshold Test, of the
- 12 Capital Module attached as Attachment H.

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## 4.3.4 Eligible Incremental Capital

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Using the Board's Capital Module, Enersource has calculated an Eligible Incremental Capital Amount of \$71.5 million based on total 2016 capital expenditures of \$115.6 million, less a materiality threshold of \$44.1 million. Total 2016 capital expenditures includes Connection and Cost Recovery Agreement ("CCRA") amounts of \$40.4 million for Churchill Meadows Transformer Station ("TS") and \$1.3 million for Cardiff TS. The incremental revenue requirement corresponding to the incremental capital of \$71.5 million is \$5.6 million. Table 4 provides a summary of the calculation.

## 9 Table 4: Eligible Incremental Capital

Eligible Incremental Capital	Capital Expenditures (\$ 000's)
Distribution System Plan 2016 Capex	73,985
CCRA – Churchill Meadows TS	40,378
CCRA – Cardiff TS	1,278
Total Proposed 2016 ICM Projects	115,641
Less: Materiality Threshold	44,105
Maximum Eligible Incremental Capital	71,536

#### 10 4.3.5 <u>Need</u>

### 11 **2016 Capital Projects**

In Enersource's most recent Cost of Service application, EB-2012-0033, Enersource identified the need for significant capital investment in its system starting within the next four to five years (2016 to 2017 timeframe), continuing over the next decade and

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1 beyond. The Asset Management Plan ("AMP") reflected the need to replace or

substantially refurbish many of Enersource's distribution system assets that were

3 installed during the City of Mississauga's boom development years of the 1970's,

4 1980's, and 1990's. A significant portion of this vintage of assets was paid for by

developers and therefore is not included in the current rate base and does not impact

6 current distribution rates.<sup>1</sup>

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7 In 2013, Enersource established an Asset Management Division to focus on the

8 development of the Distribution System Plan ("DSP") and Long Term Investment

9 Portfolio ("LTIP"). Enersource's first priority was to develop a CAMP. Based on the

business value evaluations, and numerous inputs that are identified, program and

project business cases are developed under each investment category, which are then

used to establish the near to medium term capital expenditure forecasts contained

13 within Enersource's DSP.

14 As indicated in Tables 5 and 6, actual historical capital spend has increased steadily

throughout 2012 to 2014 and this trend continues for 2015 and 2016. The increased

actual and forecasted capital expenditure for 2014-2015 is not included in the rates

approved by the Board in EB-2012-0033, and is not part of the incremental capital

18 requested by Enersource.

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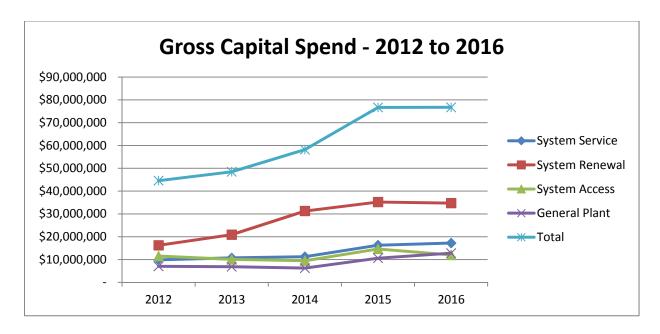
<sup>&</sup>lt;sup>1</sup> EB-2012-0033 Exhibit 1, Tab 2, Schedule 1.

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## Table 5: Gross Capital Spend 2012 to 2016

Gross Capital Spend 2012 to	2016					
	Actual	COS	Actual	Actual	Forecast	Forecast
	2012	2013	2013	2014	2015	2016
System Service	\$9,860,395	\$12,084,000	\$10,711,823	\$11,227,758	\$16,267,139	\$17,200,000
System Renewal	\$16,224,485	\$16,376,000	\$20,887,175	\$31,256,743	\$35,203,614	\$34,735,000
System Access	\$11,493,425	\$9,458,000	\$10,054,863	\$9,474,167	\$14,632,780	\$12,007,831
General Plant	\$7,005,798	\$11,187,616	\$6,830,748	\$6,230,459	\$10,585,191	\$12,796,000
Total	\$44,584,102	\$49,105,616	\$48,484,610	\$58,189,127	\$76,688,724	\$76,738,831
Administration Building	\$22,214,255	-	-	-	-	-
Hydro One TS Payments	-	-	-	-	-	\$41,656,000
LRT	-	-	-	-	-	\$400,000
Total	\$22,214,255	-	-	-	-	\$42,056,000
TOTAL GROSS	\$66,798,357	\$49,105,616	\$48,484,610	\$58,189,127	\$76,688,724	\$118,794,831
CIAC	(\$1,248,222)	(\$2,933,000)	(\$5,943,622)	(\$4,138,213)	(\$5,654,891)	(\$2,131,250
TOTAL NET	\$65,550,135	\$46,172,616	\$42,540,987	\$54,050,914	\$71,033,833	\$116,663,581

## 3 Table 6: Gross Capital Spend 2012 to 2016



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- 1 The significant increase in System Service spend between 2014 and 2015 was due to
- 2 scheduled substation upgrades, higher subtransmission expansion, and a major
- 3 upgrade of the SCADA system.
- 4 System Renewal capital requirements increased significantly between 2013 and 2014
- 5 due to transformer replacements to remove leaking and PCB transformers. Capital
- 6 requirements increased by \$4 million in 2015 due to subdivision and overhead
- 7 rebuilds.
- 8 Capital requirements for System Access increased by \$5 million from 2014 to 2015
- 9 due to Offer To Connect and industrial/commercial services.
- 10 General Plant requirements in 2015 increased by \$4.3 million due to computer system
- 11 upgrades and higher fleet spend.
- 12 Overall, Enersource plans to significantly increase its System Renewal projects over
- the timeframe of the DSP. Enersource has met with potential third-party contractors
- that are committed to increasing their workforce over the next few years in order to
- 15 meet the forecasted renewal project increases. To ensure Enersource's distribution
- system continues to remain safe and reliable, the increase in investments are required
- 17 due to the age and condition of a significant portion of Enersource's overhead and
- 18 underground system assets. Enersource has also seen a significant increase in
- 19 distribution system operating and maintenance costs over the last few years and is
- 20 committed to reversing this trend.
- 21 After considering the System Renewal investment increases and what is required for
- 22 System Service (two new substations for the Downtown Core, one additional
- 23 substation to meet the 27.6kV electricity demand forecast), and System Access

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- 1 updates to support Light Rail Transit ("LRT"), Enersource reviewed its General Plant
- 2 investment proposals and re-prioritized many of the planned activities over the entire
- 3 DSP period. By "smoothing" the General Plant investments over the DSP time frame,
- 4 Enersource was able to maintain a relatively stable year-to-year investment portfolio
- 5 that ensured sufficient cash flows would be available, labour resources would not be
- 6 overly committed, and less impact on customer rate changes.
- 7 The 2016 capital budget included within the ICM reflects the minimum amount of non-
- 8 discretionary infrastructure renewal Enersource must undertake, and which has been
- 9 approved by its Board of Directors, in order to maintain current overall levels of system
- 10 safety and reliability.

## **CCRAs**

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- 12 Enersource is party to CCRAs with Hydro One Networks Inc. ("HONI"), dated 2004
- and 2010, for Cardiff TS and Churchill Meadows TS, respectively. These agreements
- 14 provided for the construction of the Cardiff TS and Churchill Meadows TS by HONI on
- behalf of Enersource for the purpose of meeting anticipated electricity load growth in
- the City of Mississauga.
- 17 In 2003, a need for Cardiff TS was identified to meet existing and future demand
- 18 growth in the north and central area of Mississauga. The proposed station was
- designed to offload Erindale TS T1T2 and Bramalea TS T1T2 that were reaching their
- supply capacity. In 2005, the construction of Cardiff TS was completed and the station
- was put into service. A copy of Cardiff's executed CCRA is provided in Attachment J.

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- 1 In 2006, HONI and Enersource, along with the other utilities within the study area,
- 2 completed the GTA West Supply Study. This study had reaffirmed the need for Cardiff
- 3 TS and the need to offload constrained capacity from Erindale TS and Bramalea TS.
- 4 In addition, this study had indicated a need for Churchill Meadows TS in western
- 5 Mississauga. This station was required to meet future demand growth expected in
- 6 western Mississauga and allow for Meadowvale TS and Erindale TS to be offloaded,
- 7 which were reaching their supply capacity. A copy of the GTA West Supply Study is
- 8 provided in Attachment K.

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- 10 In 2010, the construction of Churchill Meadows TS was completed and the station was
- put into service. A copy of the Churchill Meadows TS CCRA is provided in Attachment
- 12 L.

- 14 Under the Transmission System Code ("TSC"), and consequently the CCRA,
- 15 Enersource is required to provide HONI with an initial capital contribution ("Initial
- 16 Capital Contribution") based on the difference (the "Difference") between the total
- 17 capital cost of constructing the TS and a projection of transformation revenue (the
- 18 "HONI Revenue") earned on the conveyance of electricity through the TS. The
- 19 Difference represents a contingent debt obligation of Enersource based on the extent
- 20 that historical actual and forecast HONI Revenue during the CCRA term is less than
- 21 the amount of HONI revenue projected as a basis for the determination of the Initial
- 22 Capital Contribution. Conversely, Enersource is entitled to a rebate of the Initial Capital
- 23 Contribution based on the extent that historical actual and forecast HONI Revenue
- 24 during the CCRA term is greater than the amount of HONI Revenue projected as a
- 25 basis for the determination of the Initial Capital Contribution.

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1 Based on a review of the CCRAs with HONI for both Cardiff TS and Churchill 2 Meadows TS, Enersource and HONI estimate a shortfall of revenue to HONI versus 3 the forecasted Initial Capital Contribution. Request for financial settlement is 4 anticipated from HONI within the next six to nine months, with the final amount and 5 payment terms negotiated between HONI and Enersource at that time. The revenue 6 shortfall is largely due to government-driven conservation initiatives, natural 7 conservation and an economic downturn that occurred in 2008 (and which has not 8 been overcome) that have resulted in historical actual load being lower than 9 forecasted load.

#### 10 4.3.6 Prudence

## 11 **2016 Capital Projects**

- 12 System Service:
- 13 In order to accommodate the future growth in Mississauga's downtown core,
- 14 Enersource plans to build two new substations over the next six years. This is part of
- 15 Enersource's long term plan as outlined in the DSP to ensure adequate supply
- 16 capacity within its service territory, but which is not included in this Application.

- 18 In addition, Enersource plans to build a new substation to meet future supply needs in
- 19 its 27.6kV service territory. As outlined in the regional infrastructure planning process
- 20 carried out by HONI, Erindale TS T1/T2 is forecasted to be overloaded above the 10-
- 21 day Limited Time Rating ("LTR") during summer peak. Furthermore, it was concluded
- 22 that the capacity needs for Erindale TS T1/T2 should be addressed through available
- transformation capacity existing adjacent to the limiting assets.

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#### 1 System Renewal:

Expenditures for System Renewal are expected to increase by approximately 20% over the next five years. The main reason for increasing costs in this area is due to a significant portion of the distribution equipment that was installed in the 1970's, 1980's, and early 1990's having aged and reached the end of its expected useful life. The 2015 forecast is \$35.2 million which is \$3.9 million higher than 2014 due to additional planned subdivision renewals and overhead rebuilds. The 2016 forecast is \$34.7 million, \$469 thousand lower than 2015 due to lower transformer replacement investments offset by higher subtransmission renewal projects.

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Table 7 provides a detailed breakdown of equipment failure statistics for the period 2010-2014. Underground cable faults represent the vast majority of total failures.

**Table 7: Equipment Failure Statistics for 2010-2014 (minutes)** 

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Cause Codes	2010	2011	2012	2013	2014
Underground Cable	2,120,732	2,881,575	2,727,177	1,720,513	1,610,094
Fuse	39,211	38,392	50,685	27,675	7,392
Insulator	2,687	42,884	156,102	301,820	170,207
Switchgears	68,884	421,281	49,230	221,229	544,465
Overhead	230,471	1,098,335	425,638	521,462	485,876
Equipment					
Others/ Unknown	62,183	133,394	83,825	110,227	285,435
Splices	277,098	262,275	807,069	196,638	192,193
Switches	24,938	86,549	262,899	151,604	291,775
Elbows/Terminations	55,984	62,340	70,562	219,763	39,223
Transformers	169,398	192,913	236,178	292,664	181,559
Total	3,051,586	5,219,938	4,869,365	3,763,595	3,808,219

- 1 Figure 2 below is a detailed visual map that indicates where Enersource has had
- 2 significant reliability issues over the last three years.

## 3 Figure 2: Enersource underground reliability performance (2012-2014)

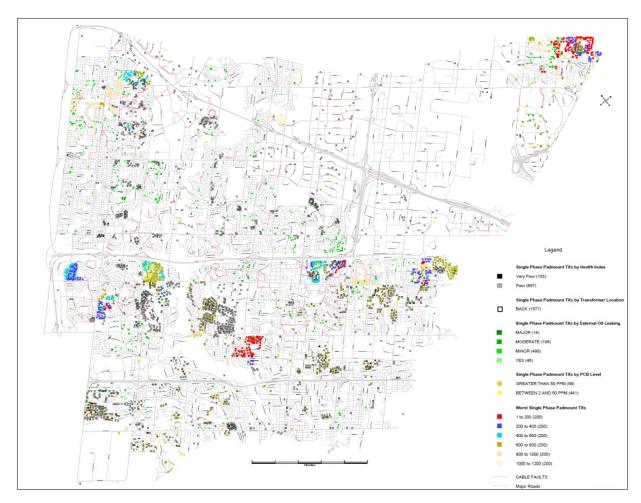


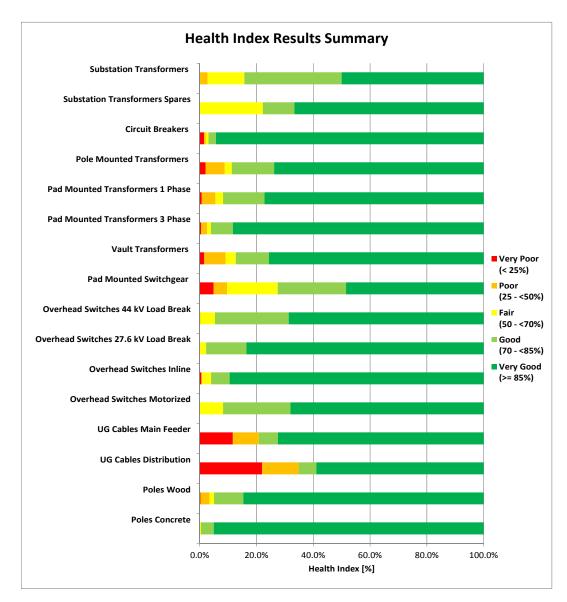
Figure 3 is a summary of Enersource's ACA condition-based health index by asset type for all major assets, based on the results of Enersource's Asset Condition

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- 1 Assessment ("ACA") performed by Kinectrics Inc. The results show a significant
- 2 percentage of underground cable assets are in either "Poor" or "Very Poor" condition.

## 4 Figure 3: Health Index Results Summary



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- 1 System Access:
- 2 Expenditures on System Access projects are primarily dependent on customer
- 3 requirements and are mandatory per Enersource's Conditions of Service and the
- 4 Distribution System Code.

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- Hurontario LRT
- 7 LRT is a transportation system being developed by the Province of Ontario to connect
- 8 the Mississauga's Port Credit neighbourhood and Brampton. The LRT project supports
- 9 Mississauga's vision of becoming a vibrant and modern urban centre and ensures the
- 10 long-term urban intensification of downtown Mississauga. With the development of
- 11 LRT infrastructure, all of downtown Mississauga will be within a five-minute walk of a
- transit station. As a result, five transit stations are proposed within the downtown that
- 13 will require installation or relocation of electrical distribution infrastructure by
- 14 Enersource. The current proposed scope of the LRT system is shown in Figure 1. With
- 15 the development of the LRT system, Enersource will need to ensure that new
- 16 distribution infrastructure is built, as well as the reconfiguration of the existing
- distribution network is carried out to ensure adequate supply to the downtown core.
- 18 The new transit line would serve Mississauga and Brampton along the Hurontario-
- 19 Main corridor, running between Port Credit and Brampton GO Station, and connecting
- with existing transit routes in the GTA.

- 22 In April 2015, the Province of Ontario announced that the Hurontario LRT project will
- 23 proceed in support of the Moving Ontario Forward plan aimed at increasing transit
- 24 ridership, reducing travel times, managing congestion, connecting people to jobs and

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1 improving the economy. Currently, the construction of the LRT is expected to start in

- 2 2018 and the in-service date is expected in 2022. Consequently, Enersource has
- 3 made provisions in its capital budgets under the system access investment category to
- 4 ensure adequate funds are available to carry out the work required to accommodate
- 5 construction of the LRT (e.g., relocation of overhead assets).

Figure 1: LRT Plan

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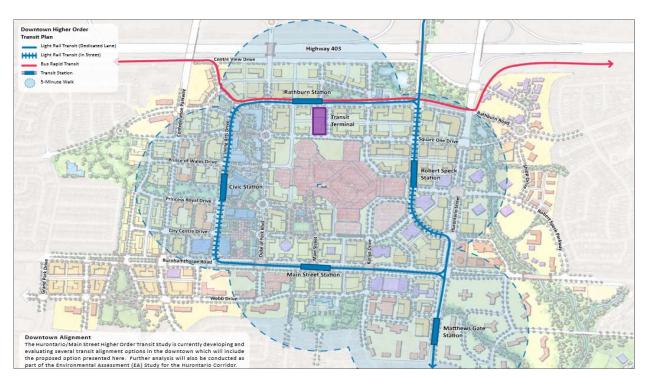
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- 11 The 2015 forecast is \$14.6 million, which is \$5.2 million higher than 2014 due to higher
- 12 Offer To Connect ("OTC") and industrial/commercial services. The 2016 forecast is

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- 1 \$12.4 million, which is \$2.2 million lower than 2015 due to fewer OTC projects
- 2 offsetting increased road projects.

- 4 General Plant:
- 5 Facilities, rolling stock, and IT expenditures have been planned to maintain and renew
- 6 existing assets with minimal year-over-year impact.
- 7 The 2015 forecast is \$10.6 million, which is \$4.4 million higher than 2014 due to JD
- 8 Edwards upgrades and higher rolling stock spend. The 2016 forecast is \$12.8 million,
- 9 which is \$2.2 million higher than 2015 due to improvements to the Meter to Cash
- 10 system.
- 11 Connection and Cost Recovery Agreements
- 12 Cardiff TS:
- 13 The need for the Cardiff TS was based on an overload of Enersource's 27.6kV primary
- distribution system due to load growth in the early 2000's in the City of Mississauga.
- 15 The average load growth for the City of Mississauga at that time was around 4.5% per
- 16 annum. However, the distribution load associated with the 27.6kV network was
- 17 growing at an average of 8.0% per annum. In 2002, the 27.6kV system consisted of
- 18 three substations, namely Erindale, Bramalea and Richview, with a capacity of 300
- 19 MVA and a combined peak load of 292 MW. Of the three TSs, only Erindale and
- 20 Bramalea had the option to provide minimum backup to each other in the event of an
- 21 outage during peak loading conditions. Richview TS feeders were isolated from the
- 22 Bramalea and Erindale 27.7kV system by Pearson International Airport. For the

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- 1 purpose of the analysis provided below the impact of the Richview TS feeders was
- 2 excluded.

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- The distribution load flow package, **SynerGEE**, was used to forecast the load flow of
- 4 the then existing 27.6kV network for 2003, and between 2005 and 2010, with an
- 5 annual load growth estimate of 8.0%. The individual feeder peak loading as at 2002
- 6 was used as the base for future load projections.
- 8 Based on this analysis, Enersource determined that additional capacity was required
- 9 in order to maintain a high level of reliability, minimize the cost of system losses, and
- 10 maintain the ability to serve new and existing customers in the medium term.
- 11 Enersource proposed a new 2 X 100 MVA 230/27.6kV TS with fourteen feeder bays to
- be commissioned in 2005 and to be located in the vicinity of Derry Road and Tomken
- Road, namely, Cardiff TS. The fourteen feeders were required to off-load the Erindale
- 14 and Bramalea substations.
- 16 Cardiff TS was proposed to meet the following criteria:
- Normal feeder loading conditions should not exceed 80%;
- The 27.6kV system must be able to accommodate a single feeder outage
   contingency;
  - The allowable voltage drop should not exceed 5% during normal loading conditions and 10% during single outage contingency; and
- The primary back-up source for individual feeders should emanate from a separate substation source.

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- 1 The economic benefits and capital costs of Cardiff TS were compared using Net
- 2 Present Worth analysis. The capital costs were limited to the fourteen proposed
- 3 feeders. Based on the technical and economic analysis, Enersource concluded that
- 4 the project was economically and technically feasible.
- 5 Churchill Meadows TS:
- 6 In June, 2004 a joint utility planning study was initiated by HONI Transmission and
- 7 five of the six LDCs in the Greater Toronto Area ("GTA") West. The LDC participants in
- 8 this joint study were Enersource, Halton Hills Hydro Inc., Hydro One Brampton, HONI -
- 9 Distribution, and Milton Hydro.
- 10 The joint study focused on the GTA West area roughly bordered geographically by
- 11 Highway 27 to the east, King Street to the north, Regional Road 25 to the west and
- 12 Highway 403/407 to the South. Much of the study area is Peel Region, with small
- 13 sections of both Halton Region and Toronto.
- 14 This study identified the need for transmission capacity and voltage stability in the
- 15 GTA West, and assessed the capability of the transmission system to meet the load
- 16 requirements for the ten year study period (from 2005 to 2015). An additional
- 17 assessment for expected 2024 conditions was also undertaken to evaluate the
- 18 proposed plans with respect to the long-term system requirements and to identify
- 19 potential gaps. Several transmission alternatives were investigated to address the
- 20 needs and deficiencies.
- 21 Of the needs identified, three are addressed within this application:
- Station Overloads (230/27.6kv) –

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- 1 o Transformers T1/T2 at Erindale TS exceeding their summer capacity limit 2 (2005);
- Station Overloads (230/44 kv) –

- o Transformers T1/T2 at Meadowvale TS were exceeding their summer 10-day LTR (2005); and
  - Transformers T3/T4 and T5/T6 at Erindale TS were expected to exceed their summer capacity limit by summer 2006.

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1 Options considered as part of the study are as follows:

Option	Description	Status
"Do Nothing"	"Do Nothing"	Rejected
Relief for Erino	ale TS and Meadowvale TS (44 kV)	
EM1	New Dual Element Spot Network ("DESN") at Meadowvale TS (Meadowvale TS #2); two 230/44/27.6kV, 75/125 MVA transformers	
EM2	New DESN at Meadowvale TS (Meadowvale TS #2); two 230/44kV, 75/125 MVA transformers	Further Analyzed and Rejected
EM3	New DESN, Churchill Meadows TS, in the vicinity of Winston Churchill Blvd. and Highway 403; two 230/44kV, 75/125 MVA transformers	

- 2 EM1: Meadowvale TS #2
- 3 This option considered a new 230/44/27.6kV, 75/125 MVA DESN at Meadowvale TS
- 4 to provide capacity for the Erindale TS and Meadowvale TS areas. This option was
- 5 rejected on the basis that a single DESN would not be able to supply the necessary
- 6 capacity for both the 44kV and 27.6kV needs in the surrounding area over the ten
- 7 years studied.

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- 1 EM2: Meadowvale TS #2
- 2 This option considered a new 230/44kV, 75/125 MVA DESN at Meadowvale TS to
- 3 provide capacity for Erindale TS and Meadowvale TS at the 44kV sub-transmission
- 4 level. This option was rejected when considered against additional needs addressed in
- 5 the study for relief of cascading load transfers from Pleasant TS, Jim Yarrow MTS and
- 6 Halton TS to Meadowvale TS #2.
- 7 EM3: Churchill Meadows TS
- 8 This option considered a new 230/44kV, 75/125 MVA DESN in the vicinity of Winston
- 9 Churchill Boulevard and Highway 403 to provide additional capacity off-loading for
- 10 Erindale TS and Meadowvale TS.
- 11 The technical evaluation supported construction of Churchill Meadows TS with an
- 12 extension of circuits V72R and V73R from Cardiff TS.
- 13 The study recommendation was for HONI to commence the preliminary engineering
- 14 and consultation with the LDCs, and to initiate the approval processes on the
- 15 construction of the Churchill Meadows TS (originally referred to as Winston TS), in the
- 16 vicinity of Winston Churchill Blvd. and Highway 403 in Mississauga.
- 17 As load did not materialize due to a number of factors, such as government-driven
- 18 conservation initiatives, natural conservation, and the 2008 economic downturn, a
- 19 financial liability is owed to HONI by Enersource.

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## 1 4.3.7 Revenue Requirement

- 2 The revenue requirement calculation can be found at Attachment H, Sheet 11,
- 3 Incremental Capital Adj., of the Board's 2016 Capital Module. The incremental
- 4 revenue requirement of \$5.6 million is summarized below in Table 8.

## 5

## **Table 8: Incremental Capital Adjustment**

Incremental Capital Adjustment	Revenue Requirement (\$000's)
Eligible Incremental Capital	71,536
Less: Depreciation Expense	1,213
Incremental Capital to be included in Rate Base	70,323
Return on Rate Base	4,575
Depreciation Expense	1,213
Incremental Grossed Up PILs	(167)
Incremental Revenue Requirement	5,621

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### 4.3.8 Rate Riders

- 9 The allocation of the incremental revenue requirement by customer class can be found 10 at Attachment H, Sheet 8, Revenue Proportions, of the Board's 2016 Capital Module.
- 11 The Capital Module uses Enersource's most current allocation of revenues to
- 12 appropriately allocate the incremental revenue requirement to the classes. Enersource
- 13 proposes to allocate the revenue requirement to the residential rate class via a fixed

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- 1 rate rider and a combination of fixed and variable rate riders for all other customer
- 2 classes as shown below in Table 9.

## 3 Table 9: Rate Riders

Rate Riders	Service Charge Rate Rider	Distribution Volumetric Rate Rider
Residential	1.03	N/A
General Service Less Than 50 KW	1.88	0.0005
General Service 50-499 KW	3.31	0.1989
General Service 500-4999 kW	75.28	0.1024
Large Use	593.53	0.1271
Unmetered Scattered Load	0.39	0.0007
Street Lighting	0.07	0.4971

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## 4.3.9 Conclusion

- 6 Enersource is requesting capital funding under the ICM to address the requirement for
- 7 new capital investment in the amount of \$71.5 million, after a materiality threshold of
- 8 \$44.1 million. This request includes \$41.7 million for true-up of CCRAs for Churchill
- 9 Meadows TS and Cardiff TS.

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- 1 4.4 Migration to Common Capital Structure
- 2 Enersource's deemed debt to equity ratio has remained constant at 60%:40%, and as
- 3 such, no K-factor adjustment is required to transition to the deemed capital structure of
- 4 60% debt and 40% equity.
- 5 4.5 Standby Service Charges
- 6 Certain customers will continue to be charged a Standby Service Charge for every
- 7 month that standby power is not provided. The applicable rate is the approved
- 8 distribution volumetric rate of the applicable service class, and is applied to gross
- 9 metered demand or contracted amount, whichever is greater. A monthly
- administration charge of \$200 for simple metering arrangements, or \$500 for complex
- 11 metering arrangements, will also be applied. Further details are available in
- 12 Enersource's Conditions of Service. Enersource has not included standby charges for
- 13 specific customer classes in the 2016 IRM Rate Generator, as the standby charge
- 14 does not necessarily correlate to a specific customer class.
- 15 4.6 Distribution Loss Factors, Transformer Allowance for Ownership, Specific Service
- 16 Charges and Retail Service Charges
- 17 Enersource does not propose any changes in these matters. These charges have
- been input within Sheet 17 of the 2016 Rate Generator Model.
- 19 4.7 microFIT Generator Rate
- 20 In EB-2009-0326, the Board directed all distributors to establish a separate service
- 21 classification for microFIT generators as of September 21, 2009. A province-wide

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- 1 uniform fixed monthly service charge applicable to microFIT generator accounts was
- 2 set by the Board at \$5.40. Enersource continues to apply this monthly service charge.
- 3 4.8 Lost Revenue Adjustment Mechanism Variance Account (LRAMVA)
- 4 Enersource seeks no disposition of Account 1568 because the balance is immaterial.

### 5. Summary of Bill Impacts

- 6 Attachment B shows the proposed Tariff of Rates and Charges resulting from the
- 7 proposed rate adjustments. Attachment C presents the total bill impacts of the
- 8 proposed rate adjustments for RPP and non-RPP customers.
- 9 Applying the Board's currently-assumed Price Cap Adjustment of 1.45%, Tables 10
- and 11 below illustrate the impacts of the proposed rate adjustments on the monthly
- 11 charges and bills of Enersource's RPP and non-RPP customers, respectively. The bill
- 12 impacts presented exclude the impact of the elimination of the Debt Retirement
- 13 Charge for residential customers, the elimination of the Ontario Clean Energy Benefit
- 14 and the implementation of the Ontario Electricity Support Program. Enersource does
- 15 not recommend rate mitigation for components that are billed on a pass-through basis.

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## Table 10: Proposed 2016 Total Monthly Bill Impacts for RPP Customers

Customer Type	Monthly Consumption (kWh)	Current Total Monthly Charges (\$)	Proposed Total Monthly Charges* (\$)	Change (\$)	Change (%)
Residential	800	133.71	134.90	1.19	0.89
General Service < 50 kW	2,000	335.37	339.91	4.54	1.35
Unmetered Scattered Load	300	51.20	52.09	0.88	1.73

<sup>\*</sup>Assumes that the RPP price as of May 1, 2015 remains constant from previous levels. This includes distribution and transmission rates that are subject to change.

- 2 As illustrated above, a typical RPP residential customer consuming 800 kWh per
- 3 month will see an increase of \$1.19 or 0.89% on the total bill. A typical RPP General
- 4 Service < 50 kW customer consuming 2,000 kWh per month will see an increase of
- 5 \$4.54 or 1.35% on the total bill.

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## 1 Table 11: Proposed 2016 Total Monthly Bill Impacts for Non-RPP Customers

Customer Type	Monthly Consumption / Demand (kWh / kW)	Current Total Monthly Charges (\$)	Proposed Total Monthly Charges* (\$)	Change (\$)	Change (%)
Residential	800	133.71	135.88	2.17	1.62
General Service < 50 kW	2,000	335.37	344.18	8.82	2.63
Unmetered Scattered Load	300	51.20	52.61	1.40	2.74
General Service 50 – 499 kW Interval	230	16,772.48	17,008.61	236.12	1.41
General Service 50 – 499 kW Non-Interval	230	16,772.48	17,076.13	303.64	1.81
General Service 500 – 4,999 kW Interval	2,250	76,660.52	79,959.34	3,298.83	4.30
General Service 500 – 4,999 kW Non-Interval	2,250	76,660.52	80,733.53	4,073.02	5.31
Large Use (>5000 kW) Class A	5,000	479,977.58	481,665.30	1,687.72	0.35
Large Use (>5000 kW) Class B	5,000	479,977.58	488,622.15	8,644.57	1.80

<sup>\*</sup>Assumes that the RPP price as of May 1, 2015 remains constant from previous levels. This includes distribution and transmission rates that are subject to change.

- 2 All non-RPP customer classes will have increases in their total bills, ranging from an
- 3 increase of 0.35% for the Class A Large Use customer to an increase of 5.31% for the
- 4 General Service 500 4999 kW non interval class customer.
- 5 On April 2, 2015, the Board released its policy: A New Distribution Rate Design for
- 6 Residential Electricity Customers, which stated that electricity distributors will transition
- 7 to a fully fixed monthly distribution service charge for residential customers over a four
- 8 year period, beginning in 2016. Enersource followed the Board's approach set out in
- 9 Sheet 15 of the Rate Generator Model which calculates the variable to fixed rate
- transition for residential customers for 2016. This results in an incremental increase in
- the fixed monthly service charge of \$2.23 which is below the threshold of \$4.00 per
- 12 year identified in the Board's policy.
- 13 The Board has established that, when assessing the combined effects of the shift to
- 14 fixed rates and other bill impacts associated with changes in the cost of distribution

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- 1 service, a utility shall evaluate the total bill impact for a residential customer at the 10th
- 2 consumption percentile to a minimum of 50 kWh per month.

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4 Enersource established the following methodology to derive the 10th consumption 5 percentile:

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- Extracted total 2014 actual annual consumption by premise/account from the Customer Information System (CIS);
- Prorated consumption that straddled the beginning and end of the year to isolate 2014 consumption only;
- Extrapolated from the total data source, consumption for residential customers with active service for the full year (e.g., customers with two months of service were excluded); and
- Calculated the average monthly consumption by premise/account.

Enersource does not recommend a plan to mitigate the impact.

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The data set, which was comprised of 161,838 records, was sorted from smallest to largest by average monthly consumption. An index of 16,184 was calculated by taking the total number of records in the data set, multiplied by 10% which corresponds to an average monthly consumption of 315 kWh, which is the 10th consumption percentile for Enersource's residential customers. Table 12 illustrates that the total bill impact for a residential RPP customer and a residential non-RPP customer with a consumption level of 315 kWh is a 4.27% and 4.90% increase, respectively and, as such,

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# 1 Table 12: Proposed 2016 Total Monthly Bill Impacts for Residential Customers 2 at the 10<sup>th</sup> Consumption Percentile

Customer Type	Monthly 10 <sup>th</sup> Percentile Consumption (kWh)	Current Total Monthly Charges (\$)	Proposed Total Monthly Charges (\$)	Change (\$)	Change (%)
Residential RPP	315	61.44	64.06	2.62	4.27
Residential (Non-RPP)	315	61.44	64.45	3.01	4.90

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## **Enersource Hydro Mississauga Inc. 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-2014-0068

## RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to all residential services including, without limitation, single family or single unit dwellings, multifamily dwellings, row-type dwellings and subdivision developments. Energy is supplied in single phase, 3-wire, or three phase, 4-wire, having a nominal voltage of 120/240 Volts. There shall be only one delivery point to a dwelling. 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 - Regulatory Component		
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0062
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0081
Low Voltage Service Rate	\$/kWh	0.0002
Distribution Volumetric Rate	\$/kWh	0.0133
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Service Charge	\$	13.22

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

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# **Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES**

Effective and Implementation Date January 1, 2015

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EB-2014-0068

## GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to a non-residential account 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**

Rural or Remote Electricity Rate Protection Charge (RRRP)

Standard Supply Service - Administrative Charge (if applicable)

Service Charge	\$	40.68
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0119
Low Voltage Service Rate	\$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0056
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044

\$/kWh

0.0013

0.25

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

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## **GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION**

This classification refers to a non-residential account 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 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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Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

Service Charge	\$	71.64
Distribution Volumetric Rate	\$/kW	4.3118
Low Voltage Service Rate	\$/kW	0.0802
Retail Transmission Rate - Network Service Rate	\$/kW	2.9272
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1960
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.9272
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.1960
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

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# **Enersource Hydro Mississauga Inc.**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-2014-0068

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

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

#### **APPLICATION**

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Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

Service Charge Distribution Volumetric Rate Low Voltage Service Rate Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$ \$/kW \$/kW \$/kW	1,631.56 2.2187 0.0784 2.8320 2.1488
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

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# **Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES**

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EB-2014-0068

## 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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Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

Service Charge Distribution Volumetric Rate Low Voltage Service Rate Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$ \$/kW \$/kW \$/kW	12,864.22 2.7539 0.0838 3.0220 2.2950
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

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# **Enersource Hydro Mississauga Inc.**TARIFF OF RATES AND CHARGES

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## UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. The amount of electricity consumed by unmetered connections will be based on detailed information/documentation provided by the device's manufacturer and will be agreed to by Enersource Hydro Mississauga Inc. and the customer and may be subject to periodic monitoring of actual consumption. Eligible unmetered loads include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings. Further servicing details are available in the distributor's Conditions of Service.

#### **APPLICATION**

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

Service Charge (per connection)	\$	8.40
Distribution Volumetric Rate	\$/kWh	0.0153
Low Voltage Service Rate	\$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0056
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

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment A Page 7 of 11

## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

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

EB-2014-0068

## STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting. Street Lighting is unmetered where energy consumption is estimated based on the connected wattage and calculated hours of use using methods established by the Ontario Energy Board. Further servicing details are available in the distributor's Conditions of Service.

#### **APPLICATION**

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

Service Charge (per light)	\$	1.41
Distribution Volumetric Rate	\$/kW	10.7732
Low Voltage Service Rate	\$/kW	0.0580
Retail Transmission Rate - Network Service Rate	\$/kW	2.0271
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5879
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

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment A Page 8 of 11

# **Enersource Hydro Mississauga Inc.**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-2014-0068

### STANDBY DISTRIBUTION SERVICE CLASSIFICATION

This classification refers to an account that requires Enersource Hydro Mississauga to provide distribution service on a standby basis as a back-up supply to an on-site generator. 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.

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**

A Standby Service Charge will be applied for a month where standby power is not provided. The applicable rate is the approved Distribution Volumetric Rate of the applicable service class and is applied to gross metered demand or contracted amount, whichever is greater. A monthly administration charge of \$200, for simple metering arrangements, or \$500, for complex metering arrangements, will also be applied.

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# **Enersource Hydro Mississauga Inc. 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-2014-0068

## 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**

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.

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

Service Charge \$ 5.40

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment A

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# **Enersource Hydro Mississauga Inc. 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-2014-0068

## **ALLOWANCES**

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.40)
Primary Metering Allowance for transformer losses – applied to measured demand and energy	%	(1.00)

### SPECIFIC SERVICE CHARGES

#### **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 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.

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.

#### **Customer Administration**

Arrears certificate	\$	15.00
Request for other billing information	\$	15.00
Credit Reference/credit check (plus credit agency costs)	\$	15.00
Credit reference/credit check (plus credit agency costs – General Service)	\$	25.00
Income Tax Letter	\$	15.00
Returned cheque (plus bank charges)	\$	12.50
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable – Residential)	\$	20.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	10.00
Non-Payment of Account		
Late Payment – per month	%	1.50
Late Payment – per annum	%	19.56
Collection of account charge – no disconnection	\$	9.00
Disconnect/Reconnect at meter – during regular hours	\$	20.00
Disconnect/Reconnect at pole – during regular hours	\$	185.00
Disconnect/Reconnect at pole – after regular hours	\$	415.00
Other		
Special meter reads	\$	30.00
Interval meter request change	\$	40.00
Temporary service install & remove – overhead – no transformer	\$	400.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	22.35

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment A Page 11 of 11

# **Enersource Hydro Mississauga Inc. 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-2014-0068

## **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	1.0360
Total Loss Factor – Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0256
Total Loss Factor – Primary Metered Customer > 5,000 kW	1.0045

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application

\$/kWh

0.0013

0.25

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

## Effective and Implementation Date January 1, 2016

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

EB-2015-0065

#### RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to all residential services including, without limitation, single family or single unit dwellings, multifamily dwellings, row-type dwellings and subdivision developments. Energy is supplied in single phase, 3-wire, or three phase, 4-wire, having a nominal voltage of 120/240 Volts. There shall be only one delivery point to a dwelling. 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

Rural or Remote Electricity Rate Protection Charge (RRRP)

Service Charge	\$	15.67
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0101
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/kWh	0.0014
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016 Applicable only for Non-Wholesale Market Participants Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016	\$/kWh	(0.0011)
Applicable only for Non-RPP Customers	\$/kWh	0.0013
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Application of Tax Change (2016) – effective until Dec 31, 2016	\$	0.01
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$	1.03
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0079
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0064
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044

Enersource Hydro Mississauga Inc.

Filed: August 17, 2015 2016 Price Cap IR Application

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

## Effective and Implementation Date January 1, 2016

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

EB-2015-0065

\$/kWh

\$/kWh

0.0044

0.0013

0.25

### GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to a non-residential account 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**

Wholesale Market Service Rate

Rural or Remote Electricity Rate Protection Charge (RRRP)

Standard Supply Service - Administrative Charge (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. 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.

Service Charge	\$	41.27
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0121
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/kWh	0.0014
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016 Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.0011)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016		
Applicable only for Non-RPP Customers	\$/kWh	0.0021
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2016) - effective until Dec 31, 2016	\$/kWh	0.0000
Rate Rider for Application of Tax Change (2016) – effective until Dec 31, 2016	\$/kWh	0.0000
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$	1.88
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$/kWh	0.0005
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0074
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0058
MONTHLY RATES AND CHARGES - Regulatory Component		

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application

\$

0.25

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

## Effective and Implementation Date January 1, 2016

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

EB-2015-0065

### **GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION**

This classification refers to a non-residential account 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 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.

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.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

#### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	72.68
Distribution Volumetric Rate	\$/kW	4.3743
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/kW	0.4908
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016 Applicable only for Non-Wholesale Market Participants	\$/kW	(0.4005)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016 Applicable only for Non-RPP Customers - Non Interval Metered	\$/kW	0.7908
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016 Applicable only for Non-RPP Customers - Interval Metered	\$/kW	0.5310
Low Voltage Service Rate	\$/kW	0.0802
Rate Rider for Application of Tax Change (2016) – effective until Dec 31, 2016	\$/kW	0.0013
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$	3.31
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$/kW	0.1989
Retail Transmission Rate - Network Service Rate	\$/kW	2.8685
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.2603
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.8685
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.2603
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013

Enersource Hydro Mississauga Inc.

Filed: August 17, 2015 2016 Price Cap IR Application

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

## Effective and Implementation Date January 1, 2016

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

EB-2015-0065

\$/kWh

\$

0.0013

0.25

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

This classification refers to a non-residential account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 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.

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.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

#### MONTHLY RATES AND CHARGES - Delivery Component

Rural or Remote Electricity Rate Protection Charge (RRRP)

Service Charge	\$	1,655.22
Distribution Volumetric Rate	\$/kW	2.2509
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/kW	0.6222
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016  Applicable only for Non-Wholesale Market Participants	\$/kW	(0.5072)
Applicable only for Non-wholesale Market Participants	Φ/KVV	(0.5072)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016		
Applicable only for Non-RPP Customers - Non Interval Metered	\$/kW	1.3012
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016		
Applicable only for Non-RPP Customers - Interval Metered	\$/kW	0.9967
Low Voltage Service Rate	\$/kW	0.0784
Rate Rider for Application of Tax Change (2016) – effective until Dec 31, 2016	\$/kW	0.0011
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next		
cost of service-based rate order	\$	75.28
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next		
cost of service-based rate order	\$/kW	0.1024
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.7752
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.2117
Notali Halishiosion Nate Elife and Halision admission dervice Nate Interval wetered	Ψ/ΚΨ	2.2111
MONTHLY DATES AND CHARCES - Dogulatory Component		
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

## Effective and Implementation Date January 1, 2016

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

EB-2015-0065

0.25

### 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**

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.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

#### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge Distribution Volumetric Rate	\$ \$/kW	13,050.75 2.7938
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016 Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/kW	0.8043
Applicable only for Non-Wholesale Market Participants Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016	\$/kW	(0.6600)
Applicable only for Non-RPP Customers - Class A Customers		(0.1761)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016		
Applicable only for Non-RPP Customers - Class B Customers	\$/kW	1.0552
Low Voltage Service Rate	\$/kW	0.0838
Rate Rider for Application of Tax Change (2015) – effective until Dec 31, 2016	\$/kW	0.0009
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$	593.53
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next		
cost of service-based rate order	\$/kW	0.1271
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.9614
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.3622
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013

Enersource Hydro Mississauga Inc.

Filed: August 17, 2015 2016 Price Cap IR Application

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

## Effective and Implementation Date January 1, 2016

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

EB-2015-0065

0.25

#### UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. The amount of electricity consumed by unmetered connections will be based on detailed information/documentation provided by the device's manufacturer and will be agreed to by Enersource Hydro Mississauga Inc. and the customer and may be subject to periodic monitoring of actual consumption. Eligible unmetered loads include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings. 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 (per connection)	\$	8.52
Distribution Volumetric Rate	\$/kWh	0.0155
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/kWh	0.0014
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	·	
Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.0011)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016		
Applicable only for Non-RPP Customers	\$/kWh	0.0018
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Application of Tax Change (2015) – effective until Dec 31, 2016	\$/kWh	0.0000
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next		
cost of service-based rate order	\$	0.39
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next		
cost of service-based rate order	\$/kWh	0.0007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0074
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0058
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application

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# Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2016

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

EB-2015-0065

0.25

#### STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting. Street Lighting is unmetered where energy consumption is estimated based on the connected wattage and calculated hours of use using methods established by the Ontario Energy Board. 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

Standard Supply Service - Administrative Charge (if applicable)

Service Charge (per light)	\$	1.43
Distribution Volumetric Rate	\$/kW	10.9294
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/Total	0.5378
Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.4053)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016 Applicable only for Non-RPP Customers	\$/Total	0.9078
Low Voltage Service Rate	\$/kW	0.0580
Rate Rider for Application of Tax Change (2015) – effective until Dec 31, 2016	\$/kW	0.0039
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$	0.07
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$/kW	0.4971
Retail Transmission Rate - Network Service Rate	\$/kW	1.9864
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.6344
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013

Filed: August 17, 2015

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# **Enersource Hydro Mississauga Inc.**TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2016
This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2015-0065

#### STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that requires Enersource Hydro Mississauga to provide distribution service on a standby basis as a back-up supply to an on-site generator. 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.

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

A Standby Service Charge will be applied for a month where standby power is not provided. The applicable rate is the approved Distribution Volumetric Rate of the applicable service class and is applied to gross metered demand or contracted amount, whichever is greater. A monthly administration charge of \$200, for simple metering arrangements, or \$500, for complex metering arrangements, will also be applied.

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application

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### **Enersource Hydro Mississauga Inc.** TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2016 This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2015-0065

#### 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**

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.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 5.40

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# Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

#### Effective and Implementation Date January 1, 2016

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

EB-2015-0065

#### **ALLOWANCES**

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.40)
Primary Metering Allowance for transformer losses - applied to measured demand and energy	%	(1.00)

#### SPECIFIC SERVICE CHARGES

#### **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 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.

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.

#### **Customer Administration**

Arrears certificate	\$	15.00
Request for other billing information	\$	15.00
Credit Reference/credit check (plus credit agency costs)	\$	15.00
Credit reference/credit check (plus credit agency costs - General Service)	\$	25.00
Income Tax Letter	\$	15.00
Returned cheque (plus bank charges)	\$	12.50
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable - Residential)	\$	20.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	10.00
Non-Payment of Account		
Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge - no disconnection	\$	9.00
Disconnect/Reconnect at meter - during regular hours	\$	20.00
Disconnect/Reconnect at pole - during regular hours	\$	185.00
Disconnect/Reconnect at pole - after regular hours	\$	415.00
Other		
Special meter reads	\$	30.00
Interval meter request change	\$	40.00
Temporary service install & remove - overhead - no transformer	\$	400.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	22.35

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# Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

### Effective and Implementation Date January 1, 2016

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

EB-2015-0065

### **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	1.0360
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0256
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

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## Enersource Hydro Mississauga Summary of Bill Impacts - TOTAL BILL IMPACT January 1, 2015 vs January 1, 2016

	\$ Impact	% Impact	Comments
Residential RPP TOU	\$ 1.19	0.89%	Average residential customer consuming 800kWh per month
General Service <50 kW RPP TOU	\$ 4.54	1.35%	Average GA<50 customer consuming 2000kWh per month
Umetered Scattered Load RPP	\$ 0.88	1.73%	Average USL customer consuming 300kWh per month
General Service 50-499 kW			
Non-RPP Interval	\$ 236.12	1.41%	Average GS 50-499 customer consuming 230kW per month
Non-RPP Non Interval	\$ 303.64	1.81%	
General Service 500-4999 kW			
Non-RPP Interval	\$ 3,298.83	4.30%	Average GS 500-4999 customer consuming 2250kW per month
Non-RPP Non Interval	\$ 4,073.02	5.31%	
Large Use			
Class A	\$ 1,687.72	0.35%	Average large use customer consuming 5000kW per month
Class B	\$ 8,644.57	1.80%	
Street Lighting			
Non-RPP	\$ 0.29	3.86%	Average Street Light customer consuming 0.1kW per month

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EB-2015-0065 Attachment C Rate Class Residential RPP

Loss Factor Consumption

0.0360

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800 kWh

If Billed on a kW basis:

Demand

	Current Board-Approved				t
	Rate Volume Cha			harge	
		(\$)			(\$)
Monthly Service Charge	\$	13.22	1	\$	13.22
Distribution Volumetric Rate	\$	0.0133	800	\$	10.64
Sub-Total A (excluding pass through)				\$	23.86
Line Losses on Cost of Power	\$	0.1021	29	\$	2.94
Total Variable Rate Riders	\$	-	800	\$	-
Low Voltage Service Charge	\$	0.0002	800	\$	0.16
Smart Meter Entity Charge	\$	0.7900	1	\$	0.79
Total Fixed Rate Riders	\$	-	1	\$	-
Sub-Total B - Distribution (includes Sub-Total A)				\$	27.75
RTSR - Network	\$	0.0081	800	\$	6.48
RTSR - Connection and/or Line and Transformation Connection	\$	0.0062	800	\$	4.96
Sub-Total C - Delivery (including Sub-Total B)				\$	39.19
Wholesale Market Service Charge (WMSC)	\$	0.0044	829	\$	3.65
Rural and Remote Rate Protection (RRRP)	\$	0.0013	829	\$	1.08
Standard Supply Service Charge	\$	0.2500	1	\$	0.25
Debt Retirement Charge (DRC)	\$	0.0070	800	\$	5.60
TOU - Off Peak	\$	0.0800	512	\$	40.96
TOU - Mid Peak	\$	0.1220	144	\$	17.57
TOU - On Peak	\$	0.1610	144	\$	23.18
Total Bill on TOU (before Taxes)				\$	131.48
HST		13%		\$	17.09
Total Bill (including HST)			\$	148.57	
Ontario Clean Energy Benefit 1				-\$	14.86
Total Bill on TOU (including OCEB)				\$	133.71

Proposed					
Rate	Volume	Charge			
(\$)			(\$)		
\$ 15.67	1	\$	15.67		
\$ 0.0101	800	\$	8.08		
		\$	23.75		
\$ 0.1021	29	\$	2.94		
\$ 0.0003	800	\$	0.24		
\$ 0.0002	800	\$	0.16		
\$ 0.7900	1	\$	0.79		
\$ 1.04	1	\$	1.04		
		\$	28.92		
\$ 0.0079	800	\$	6.32		
\$ 0.0064	800	\$	5.12		
		\$	40.36		
\$ 0.0044	829	\$	3.65		
\$ 0.0013	829	\$	1.08		
\$ 0.2500	1	\$	0.25		
\$ 0.0070	800	\$	5.60		
\$ 0.0800	512	\$	40.96		
\$ 0.1220	144	\$	17.57		
\$ 0.1610	144	\$	23.18		
		\$	132.65		
13%		\$	17.24		
		\$	149.89		
		-\$	14.99		
		\$	134.90		

\$ C	hange	0/ Chance
	·	% Change
\$	2.45	18.53%
-\$	2.56	-24.06%
-\$	0.11	-0.46%
\$	-	0.00%
\$	0.24	
\$	-	0.00%
\$	-	0.00%
\$	1.04	
\$	1.17	4.22%
-\$	0.16	-2.47%
\$	0.16	3.23%
\$	1.17	2.99%
\$	-	0.00%
\$	-	0.00%
\$	-	0.00%
\$	-	0.00%
\$	-	0.00%
\$	-	0.00%
\$	-	0.00%
\$	1.17	0.89%
\$	0.15	0.89%
\$	1.32	0.89%
-\$	0.13	0.87%
\$	1.19	0.89%

#### Rate Class Residential Non-RPP

Loss Factor

0.0360

Consumption

800 kWh

If Billed on a kW basis:

Demand

	Current Board-Approved				
	Rate Volume Char				harge
	(\$)			(\$)	
Monthly Service Charge	\$	13.22	1	\$	13.22
Distribution Volumetric Rate	\$	0.0133	800	\$	10.64
Volumetric Rate Riders (LRAM)	\$	-	800	\$	-
Sub-Total A (excluding pass through)				\$	23.86
Line Losses on Cost of Power	\$	0.1021	29	\$	2.94
Total Variable Rate Riders	\$	-	800	\$	-
Low Voltage Service Charge	\$	0.0002	800	\$	0.16
Smart Meter Entity Charge	\$	0.7900	1	\$	0.79
Total Fixed Rate Riders	\$	-	1	\$	-
Sub-Total B - Distribution (includes Sub-Total A)				\$	27.75
RTSR - Network	\$	0.0081	800	\$	6.48
RTSR - Connection and/or Line and Transformation Connection	\$	0.0062	800	\$	4.96
Sub-Total C - Delivery (including Sub-Total B)				\$	39.19
Wholesale Market Service Charge (WMSC)	\$	0.0044	829	\$	3.65
Rural and Remote Rate Protection (RRRP)	\$	0.0013	829	\$	1.08
Standard Supply Service Charge	\$	0.2500	1	\$	0.25
Debt Retirement Charge (DRC)	\$	0.0070	800	\$	5.60
TOU - Off Peak	\$	0.0800	512	\$	40.96
TOU - Mid Peak	\$	0.1220	144	\$	17.57
TOU - On Peak	\$	0.1610	144	\$	23.18
Total Bill on TOU (before Taxes)				\$	131.48
HST		13%		\$	17.09
Total Bill (including HST)	\$ 148.5			148.57	
Ontario Clean Energy Benefit 1	-\$ 14.8			14.86	
Total Bill on TOU (including OCEB)				\$	133.71

	Proposed					
Rate		Volume	С	harge		
	(\$)			(\$)		
\$	15.67	1	\$	15.67		
\$	0.0101	800	\$	8.08		
\$	-	800	\$	-		
			\$	23.75		
\$	0.1021	29	\$	2.94		
\$	0.0015	800	\$	1.20		
\$	0.0002	800	\$	0.16		
\$	0.7900	1	\$	0.79		
\$	1.04	1	\$	1.04		
			\$	29.88		
\$	0.0079	800	\$	6.32		
\$	0.0064	800	\$	5.12		
			\$	41.32		
\$	0.0044	829	\$	3.65		
\$	0.0013	829	\$	1.08		
\$	0.2500	1	\$	0.25		
\$	0.0070	800	\$	5.60		
\$	0.0800	512	\$	40.96		
\$	0.1220	144	\$	17.57		
\$	0.1610	144	\$	23.18		
				133.61		
	13%		\$	17.37		
				150.98		
			-\$	15.10		
			\$	135.88		

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Impact						
\$ CI	nange	% Change				
\$	2.45	18.53%				
-\$	2.56	-24.06%				
\$	-					
-\$	0.11	-0.46%				
\$	0.00	0.04%				
\$	1.20					
\$	-	0.00%				
\$	-	0.00%				
\$	2.13	7.68%				
-\$	0.16	-2.47%				
\$	0.16	3.23%				
\$	2.13	5.44%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	2.13	1.62%				
\$	0.28	1.62%				
\$	2.41	1.62%				
-\$	0.24	1.62%				
\$	2.17	1.62%				

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Rate Class GENERAL SERVICE LESS THAN 50 KW

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Loss Factor 0.0360

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Consumption 2,000 kWh

If Billed on a kW basis:

Demand

	Current Board-Approved					
		Rate	Charge			
		(\$)			(\$)	
Monthly Service Charge	\$	40.68	1	\$	40.68	
Distribution Volumetric Rate	\$	0.0119	2,000	\$	23.80	
Volumetric Rate Riders (LRAM)	\$	-	2,000	\$	-	
Sub-Total A (excluding pass through)				\$	64.48	
Line Losses on Cost of Power	\$	0.1021	72	\$	7.35	
Total Variable Rate Riders	\$	-	2,000	\$	-	
Low Voltage Service Charge	\$	0.0002	2,000	\$	0.40	
Smart Meter Entity Charge	\$	0.7900	1	\$	0.79	
Total Fixed Rate Riders	\$	-	1	\$	-	
Sub-Total B - Distribution (includes Sub-Total A)				\$	73.02	
RTSR - Network	\$	0.0076	2,000	\$	15.20	
RTSR - Connection and/or Line and Transformation Connection	\$	0.0056	2,000	\$	11.20	
Sub-Total C - Delivery (including Sub-Total B)				\$	99.42	
Wholesale Market Service Charge (WMSC)	\$	0.0044	2,072	\$	9.12	
Rural and Remote Rate Protection (RRRP)	\$	0.0013	2,072	\$	2.69	
Standard Supply Service Charge	\$	0.2500	1	\$	0.25	
Debt Retirement Charge (DRC)	\$	0.0070	2,000	\$	14.00	
TOU - Off Peak	\$	0.0800	1,280	\$	102.40	
TOU - Mid Peak	\$	0.1220	360	\$	43.92	
TOU - On Peak	\$	0.1610	360	\$	57.96	
Total Bill on TOU (before Taxes)				\$	329.76	
HST		13%		\$	42.87	
Total Bill (including HST)				\$	372.63	
Ontario Clean Energy Benefit 1				-\$	37.26	
Total Bill on TOU (including OCEB)				\$	335.37	

Proposed						
	Rate	Volume	Charge			
	(\$)			(\$)		
\$	41.27	1	\$	41.27		
\$	0.0121	2,000	\$	24.20		
\$	-	2,000	\$	-		
			\$	65.47		
\$	0.1021	72	\$	7.35		
\$	0.0008	2,000	\$	1.60		
\$	0.0002	2,000	\$	0.40		
\$	0.7900	1	\$	0.79		
\$	1.88	1	\$	1.88		
			\$	77.49		
\$	0.0074	2,000	\$	14.80		
\$	0.0058	2,000	\$	11.60		
			\$	103.89		
\$	0.0044	2,072	\$	9.12		
\$	0.0013	2,072	\$	2.69		
\$	0.2500	1	\$	0.25		
\$	0.0070	2,000	\$	14.00		
\$	0.0800	1,280	\$	102.40		
\$	0.1220	360	\$	43.92		
\$	0.1610	360	\$	57.96		
			\$	334.23		
	13%		\$	43.45		
			\$	377.68		
			-\$	37.77		
			\$	339.91		

Impact						
\$ CI	nange	% Change				
\$	0.59	1.45%				
\$	0.40	1.68%				
\$	-					
\$	0.99	1.54%				
\$	-	0.00%				
\$	1.60					
\$	-	0.00%				
\$	-	0.00%				
\$	4.47	6.12%				
-\$	0.40	-2.63%				
\$	0.40	3.57%				
\$	4.47	4.50%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	4.47	1.36%				
\$	0.58	1.36%				
\$	5.05	1.36%				
-\$	0.51	1.37%				
\$	4.54	1.35%				

#### Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment C Page 5 of 14

#### Rate Class GENERAL SERVICE LESS THAN 50 KW Non-RPP

Loss Factor

0.0360

Consumption 2,000

kWh

If Billed on a kW basis:

Demand

\$ \$ \$ \$	Rate (\$) 40.68 0.0119 - 0.1021	1 2,000 2,000 72	69 69 69 <b>69</b>	<b>Charge</b> (\$) 40.68 23.80 -
\$ \$ \$	40.68 0.0119 - 0.1021	2,000	\$	40.68
\$ \$ \$	0.0119	2,000	\$	
\$ \$ \$ \$	0.1021	2,000	\$	23.80
\$ \$ \$	-			-
\$ \$ \$	-	72	\$	
\$ \$ \$	-	72		64.48
\$ \$	-		\$	7.35
\$		2,000	\$	-
	0.0002	2,000	\$	0.40
œ.	0.7900	1	\$	0.79
Ψ	-	1	\$	-
			\$	73.02
\$	0.0076	2,000	\$	15.20
\$	0.0056	2,000	\$	11.20
			\$	99.42
\$	0.0044	2,072	\$	9.12
\$	0.0013	2,072	\$	2.69
\$	0.2500	1	\$	0.25
\$	0.0070	2,000	\$	14.00
\$	0.0800	1,280	\$	102.40
\$	0.1220	360	\$	43.92
\$	0.1610	360	\$	57.96
			\$	329.76
	13%		\$	42.87
			\$	372.63
			-\$	37.26
			\$	335.37
\$		0.0070 0.0800 0.1220 0.1610	3     0.0070     2,000       4     0.0800     1,280       5     0.1220     360       6     0.1610     360	3 0.0070 2,000 \$ 0.0800 1,280 \$ 0.1220 360 \$ 0.1610 360 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

Proposed					
Rate	Volume	C	harge		
(\$)			(\$)		
\$ 41.27	1	\$	41.27		
\$ 0.0121	2,000	\$	24.20		
\$ -	2,000	\$	-		
		\$	65.47		
\$ 0.1021	72	\$	7.35		
\$ 0.0029	2,000	\$	5.80		
\$ 0.0002	2,000	\$	0.40		
\$ 0.7900	1	\$	0.79		
\$ 1.88	1	\$	1.88		
		\$	81.69		
\$ 0.0074	2,000	\$	14.80		
\$ 0.0058	2,000	\$	11.60		
			108.09		
\$ 0.0044	2,072	\$	9.12		
\$ 0.0013	2,072	\$	2.69		
\$ 0.2500	1	\$	0.25		
\$ 0.0070	2,000	\$	14.00		
\$ 0.0800	1,280	-	102.40		
\$ 0.1220	360	\$	43.92		
\$ 0.1610	360	\$	57.96		
		•	338.43		
13%		\$	44.00		
		*	382.43		
		-\$	38.24		
		\$	344.18		

	Impact					
\$ CI	hange	% Change				
\$	0.59	1.45%				
\$	0.40	1.68%				
\$	-					
\$	0.99	1.54%				
\$	-	0.00%				
\$	5.80					
\$	-	0.00%				
\$	-	0.00%				
\$	8.67	11.87%				
-\$	0.40	-2.63%				
\$	0.40	3.57%				
\$	8.67	8.72%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	8.67	2.63%				
\$	1.13	2.63%				
\$	9.80	2.63%				
-\$	0.98	2.63%				
\$	8.82	2.63%				

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2016 Price Cap IR Application

EB-2015-0065

Rate Class Unmetered Scattered Load- RPP

Attachment C Loss Factor

0.0360

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300 kWh

If Billed on a kW basis:

Demand

Consumption

	Current Board-Approved				
	Rate Volume C			harge	
		(\$)			(\$)
Monthly Service Charge	\$	8.40	1	\$	8.40
Distribution Volumetric Rate	\$	0.0153	300	\$	4.59
Volumetric Rate Riders (LRAM)	\$	-	300	\$	-
Sub-Total A (excluding pass through)				\$	12.99
Line Losses on Cost of Power	\$	0.0940	11	\$	1.02
Total Variable Rate Riders	\$	-	300	\$	-
Low Voltage Service Charge	\$	0.0002	300	\$	0.06
Smart Meter Entity Charge	\$	-	1	\$	-
Total Fixed Rate Riders	\$	-	1	\$	-
Sub-Total B - Distribution (includes Sub-Total A)				\$	14.07
RTSR - Network	\$	0.0076	300	\$	2.28
RTSR - Connection and/or Line and Transformation Connection	\$	0.0056	300	\$	1.68
Sub-Total C - Delivery (including Sub-Total B)				\$	18.03
Wholesale Market Service Charge (WMSC)	\$	0.0044	311	\$	1.37
Rural and Remote Rate Protection (RRRP)	\$	0.0013	311	\$	0.40
Standard Supply Service Charge	\$	0.2500	1	\$	0.25
Debt Retirement Charge (DRC)	\$	0.0070	300	\$	2.10
Energy	\$	0.0940	300	\$	28.20
Total Bill on TOU (before Taxes)				\$	50.35
HST		13%		\$	6.55
Total Bill (including HST)				\$	56.89
Ontario Clean Energy Benefit 1				-\$	5.69
Total Bill on TOU (including OCEB)				\$	51.20

Proposed							
	Rate	Volume	Charge				
	(\$)			(\$)			
\$	8.52	1	\$	8.52			
\$	0.0155	300	\$	4.65			
\$	-	300	\$	-			
			\$	13.17			
\$	0.0940	11	\$	1.02			
\$	0.0010	300	\$	0.30			
\$	0.0002	300	\$	0.06			
\$	-	1	\$	-			
\$	0.39	1	\$	0.39			
			\$	14.94			
\$	0.0074	300	\$	2.22			
\$	0.0058	300	\$	1.74			
			\$	18.90			
\$	0.0044	311	\$	1.37			
\$	0.0013	311	\$	0.40			
\$	0.2500	1	\$	0.25			
\$	0.0070	300	\$	2.10			
\$	0.0940	300	\$	28.20			
			\$	51.22			
	13%		\$	6.66			
			\$	57.87			
			-\$	5.79			
			\$	52.09			

		pact
\$ C	hange	% Change
\$	0.12	1.43%
\$	0.06	1.31%
\$	-	
\$	0.18	1.39%
\$	-	0.00%
\$	0.30	
\$	-	0.00%
\$	-	
\$	0.87	6.19%
-\$	0.06	-2.63%
\$	0.06	3.57%
\$	0.87	4.83%
\$	-	0.00%
\$	-	0.00%
\$	-	0.00%
\$	-	0.00%
\$	-	0.00%
\$	0.87	1.73%
\$	0.11	1.73%
\$	0.98	1.73%
-\$	0.10	1.73%
\$	0.88	1.73%

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Rate Class Unmetered Scattered Load- Non RPP

**Loss Factor** Consumption

0.0360

300

kWh

If Billed on a kW basis:

Demand		kW	
	Current B	oard-Appr	oved
	Rate	Volume	Charge
	(\$)		(\$)
Monthly Service Charge	\$ 8.40	1	\$ 8.40
Distribution Volumetric Rate	\$ 0.0153	300	\$ 4.59
Volumetric Rate Riders (LRAM)	\$ -	300	\$ -
Sub-Total A (excluding pass through)			\$ 12.99
Line Losses on Cost of Power	\$ 0.0940	11	\$ 1.02
Total Variable Rate Riders	\$ -	300	\$ -
Low Voltage Service Charge	\$ 0.0002	300	\$ 0.06
Smart Meter Entity Charge	\$ -	1	\$ -
Total Fixed Rate Riders	\$ -	1	\$ -
Sub-Total B - Distribution (includes Sub-Total A)			\$ 14.07
RTSR - Network	\$ 0.0076	300	\$ 2.28
RTSR - Connection and/or Line and Transformation Connection	\$ 0.0056	300	\$ 1.68
Sub-Total C - Delivery (including Sub-Total B)			\$ 18.03
Wholesale Market Service Charge (WMSC)	\$ 0.0044	311	\$ 1.37
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	311	\$ 0.40
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25
Debt Retirement Charge (DRC)	\$ 0.0070	300	\$ 2.10
Energy	\$ 0.0940	300	\$ 28.20
Total Bill on TOU (before Taxes)			\$ 50.35
HST	13%		\$ 6.55
Total Bill (including HST)			\$ 56.89
Ontario Clean Energy Benefit 1			-\$ 5.69
Total Bill on TOU (including OCEB)			\$ 51.20

F	Proposed				
Rate	Volume	Charge			
(\$)		(\$)			
\$ 8.52	1	\$ 8.52			
\$ 0.0155	300	\$ 4.65			
\$ -	300	\$ -			
		\$ 13.17			
\$ 0.0940	11	\$ 1.02			
\$ 0.0027	300	\$ 0.81			
\$ 0.0002	300	\$ 0.06			
\$ -	1	\$ -			
\$ 0.39	1	\$ 0.39			
		\$ 15.45			
\$ 0.0074	300	\$ 2.22			
\$ 0.0058	300	\$ 1.74			
		\$ 19.41			
\$ 0.0044	311	\$ 1.37			
\$ 0.0013	311	\$ 0.40			
\$ 0.2500	1	\$ 0.25			
\$ 0.0070	300	\$ 2.10			
\$ 0.0940	300	\$ 28.20			
		\$ 51.73			
13%		\$ 6.72			
		\$ 58.45			
		-\$ 5.85			
		\$ 52.61			

Impact				
\$ CI	hange	% Change		
\$	0.12	1.43%		
\$	0.06	1.31%		
\$	-			
\$	0.18	1.39%		
\$	-	0.00%		
\$	0.81			
\$	-	0.00%		
\$	-			
\$	1.38	9.81%		
-\$	0.06	-2.63%		
\$ <b>\$</b>	0.06	3.57%		
	1.38	7.66%		
\$	-	0.00%		
\$	-	0.00%		
\$	-	0.00%		
\$	-	0.00%		
\$		0.00%		
\$	1.38	2.74%		
\$	0.18	2.74%		
\$	1.56	2.74%		
-\$	0.16	2.74%		
\$	1.40	2.74%		

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Rate Class General Service 50-499kW Non-RPP (Interval)

Attachment C

Loss Factor 0.0360

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100,000 kWh

If Billed on a kW basis:

Demand

Consumption

	Current Board-Approved			/ed	
	Rate V		Volume	Charge	
		(\$)			(\$)
Monthly Service Charge	\$	71.64	1	\$	71.64
Distribution Volumetric Rate	\$	4.3118	230	\$	991.71
Volumetric Rate Riders (LRAM)	\$	-	230	\$	-
Sub-Total A (excluding pass through)				\$	1,063.35
Total Variable Rate Riders	\$	-	230	\$	-
Low Voltage Service Charge	\$	0.0802	230	\$	18.45
Smart Meter Entity Charge	\$	-	1	\$	-
Total Fixed Rate Riders	\$	-	1	\$	-
Sub-Total B - Distribution (includes Sub-Total A)				\$	1,081.80
Transformer Allowance	-\$	0.4000	230	-\$	92.00
RTSR - Network	\$	2.9272	230	\$	673.26
RTSR - Connection and/or Line and Transformation Connection	\$	2.1960	230	\$	505.08
Sub-Total C - Delivery (including Sub-Total B)				\$	2,168.14
Wholesale Market Service Charge (WMSC)	\$	0.0044	103,600	\$	455.84
Rural and Remote Rate Protection (RRRP)	\$	0.0013	103,600	\$	134.68
Standard Supply Service Charge	\$	0.2500	1	\$	0.25
Debt Retirement Charge (DRC)	\$	0.0070	100,000	\$	700.00
Energy	\$	0.0940	750	\$	70.50
Energy	\$	0.1100	102,850	\$	11,313.50
Total Bill on TOU (before Taxes)				\$	14,842.91
HST		13%		\$	1,929.58
Total Bill (including HST)				\$	16,772.48
Ontario Clean Energy Benefit 1				\$	-
Total Bill on TOU (including OCEB)				\$	16,772.48

	Proposed			
	Rate	Volume		Charge
	(\$)			(\$)
\$	72.68	1	\$	72.68
\$	4.3743	230	\$	1,006.09
\$	-	230	\$	-
			\$	1,078.77
\$	0.8215	230	\$	188.95
\$	0.0802	230	\$	18.45
\$	-	1	\$	-
\$	3.31	1	\$	3.31
			<b>\$</b>	1,289.47
-\$	0.4000	230	-\$	92.00
\$	2.8685	230	\$	659.76
\$	2.2603	230	\$	519.87
			\$	2,377.09
\$	0.0044	103,600	\$	455.84
\$	0.0013	103,600	\$	134.68
\$	0.2500	1	\$	0.25
\$	0.0070	100,000	\$	700.00
\$	0.0940	750	\$	70.50
\$	0.1100	102,850	\$	11,313.50
			\$	15,051.86
	13%		\$	1,956.74
			\$	17,008.61
			\$	-
			\$	17,008.61

Impact					
\$ Change	% Change				
\$ 1.04	1.45%				
\$ 14.38	1.45%				
\$ -					
\$ 15.42	1.45%				
\$ 188.95					
\$ -	0.00%				
\$ -					
\$ 207.67	19.20%				
\$ -	0.00%				
-\$ 13.50	-2.01%				
\$ 14.79	2.93%				
\$ 208.96	9.64%				
\$ -	0.00%				
\$ -	0.00%				
\$ -	0.00%				
\$ -	0.00%				
\$ -	0.00%				
\$ -	0.00%				
\$ 208.96	1.41%				
\$ 27.16	1.41%				
\$ 236.12	1.41%				
\$ -					
\$ 236.12	1.41%				

#### Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment C Page 9 of 14

#### Rate Class General Service 50-499kW Non-RPP (Non-Interval)

Loss Factor Consumption

0.0360 100,000

kWh

If Billed on a kW basis:

Demand 230 kW

	Current Board-Approved				
		Rate Volume			Charge
		(\$)			(\$)
Monthly Service Charge	\$	71.64	1	\$	71.64
Distribution Volumetric Rate	\$	4.3118	230	\$	991.71
Volumetric Rate Riders (LRAM)	\$	-	230	\$	-
Sub-Total A (excluding pass through)				\$	1,063.35
Total Variable Rate Riders	\$	-	230	\$	-
Low Voltage Service Charge	\$	0.0802	230	\$	18.45
Smart Meter Entity Charge	\$	-	1	\$	-
Total Fixed Rate Riders	\$	-	1	\$	-
Sub-Total B - Distribution (includes Sub-Total A)				\$	1,081.80
Transformer Allowance	-\$	0.4000	230	-\$	92.00
RTSR - Network	\$	2.9272	230	\$	673.26
RTSR - Connection and/or Line and Transformation Connection	\$	2.1960	230	\$	505.08
Sub-Total C - Delivery (including Sub-Total B)				\$	2,168.14
Wholesale Market Service Charge (WMSC)	\$	0.0044	103,600	\$	455.84
Rural and Remote Rate Protection (RRRP)	\$	0.0013	103,600	\$	134.68
Standard Supply Service Charge	\$	0.2500	1	\$	0.25
Debt Retirement Charge (DRC)	\$	0.0070	100,000	\$	700.00
Energy	\$	0.0940	750	\$	70.50
Energy	\$	0.1100	102,850	\$	11,313.50
Total Bill on TOU (before Taxes)				\$	14,842.91
HST		13%		\$	1,929.58
Total Bill (including HST)				\$	16,772.48
Ontario Clean Energy Benefit 1				\$	-
Total Bill on TOU (including OCEB)				\$	16,772.48

	Proposed				
	Rate	Volume		Charge	
	(\$)			(\$)	
\$	72.68	1	\$	72.68	
\$	4.3743	230	\$	1,006.09	
\$	-	230	\$	-	
			\$	1,078.77	
\$	1.0813	230	\$	248.70	
\$	0.0802	230	\$	18.45	
\$	-	1	\$	-	
\$	3.31	1	\$	3.31	
			\$	1,349.22	
-\$	0.4000	230	-\$	92.00	
\$	2.8685	230	\$	659.76	
\$	2.2603	230	\$	519.87	
			\$	2,436.85	
\$	0.0044	103,600	\$	455.84	
\$	0.0013	103,600	\$	134.68	
\$	0.2500	1	\$	0.25	
\$	0.0070	100,000	\$	700.00	
\$	0.0940	750	\$	70.50	
\$	0.1100	102,850	\$	11,313.50	
			\$	15,111.62	
	13%		\$	1,964.51	
			\$ 17,076.13		
			\$	-	
			\$	17,076.13	

Impact					
\$ Change	% Change				
\$ 1.04	1.45%				
\$ 14.38	1.45%				
\$ -					
\$ 15.42	1.45%				
\$248.70					
\$ -	0.00%				
\$ -					
\$267.42	24.72%				
\$ -	0.00%				
-\$ 13.50	-2.01%				
\$ 14.79	2.93%				
\$268.71	12.39%				
\$ -	0.00%				
\$ -	0.00%				
\$ -	0.00%				
\$ -	0.00%				
\$ -	0.00%				
\$ -	0.00%				
\$268.71	1.81%				
\$ 34.93	1.81%				
\$303.64	1.81%				
\$ -					
\$303.64	1.81%				

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Rate Class General Service 500-4999kW Non-RPP (Interval)

Attachment C

Loss Factor 0.0360

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Consumption 400,000 kWh

If Billed on a kW basis:

Demand

	Current Board-Approved			
	Rate Volume			Charge
		(\$)		(\$)
Monthly Service Charge	\$	1,631.56	1	\$ 1,631.56
Distribution Volumetric Rate	\$	2.2187	2,250	\$ 4,992.08
Volumetric Rate Riders (LRAM)	\$	-	2,250	\$ -
Sub-Total A (excluding pass through)				\$ 6,623.64
Total Variable Rate Riders	\$	-	2,250	\$ -
Low Voltage Service Charge	\$	0.0784	2,250	\$ 176.40
Smart Meter Entity Charge	\$	-	1	\$ -
Total Fixed Rate Riders	\$	-	1	\$ -
Sub-Total B - Distribution (includes Sub-Total A)				\$ 6,800.04
Transformer Allowance	-\$	0.4000	2,250	-\$ 900.00
RTSR - Network	\$	2.8320	2,250	\$ 6,372.00
RTSR - Connection and/or Line and Transformation Connection	\$	2.1488	2,250	\$ 4,834.80
Sub-Total C - Delivery (including Sub-Total B)				\$ 17,106.84
Wholesale Market Service Charge (WMSC)	\$	0.0044	414,400	\$ 1,823.36
Rural and Remote Rate Protection (RRRP)	\$	0.0013	414,400	\$ 538.72
Standard Supply Service Charge	\$	0.2500	1	\$ 0.25
Debt Retirement Charge (DRC)	\$	0.0070	400,000	\$ 2,800.00
Energy	\$	0.0940	750	\$ 70.50
Energy	\$	0.1100	413,650	\$ 45,501.50
Total Bill on TOU (before Taxes)				\$ 67,841.17
HST		13%		\$ 8,819.35
Total Bill (including HST)				\$ 76,660.52
Ontario Clean Energy Benefit 1				\$ -
Total Bill on TOU (including OCEB)				\$ 76,660.52

Proposed				
	Rate	Volume	Charge	
	(\$)		(\$)	
\$	1,655.22	1	\$ 1,655.22	
\$	2.2509	2,250	\$ 5,064.53	
\$	-	2,250	\$ -	
			\$ 6,719.75	
\$	1.2152	2,250	\$ 2,734.20	
\$	0.0784	2,250	\$ 176.40	
\$	-	1	\$ -	
\$	75.28	1	\$ 75.28	
			\$ 9,705.63	
-\$	0.4000	2,250	-\$ 900.00	
\$	2.7752	2,250	\$ 6,244.20	
\$	2.2117	2,250	\$ 4,976.33	
			\$ 20,026.15	
\$	0.0044	414,400	\$ 1,823.36	
\$	0.0013	414,400	\$ 538.72	
\$	0.2500	1	\$ 0.25	
\$	0.0070	400,000	\$ 2,800.00	
\$	0.0940	750	\$ 70.50	
\$	0.1100	413,650	\$ 45,501.50	
			\$ 70,760.48	
	13%		\$ 9,198.86	
			\$ 79,959.34	
			\$ -	
			\$ 79,959.34	

	Impact					
\$ Ch	nange	% Change				
\$	23.66	1.45%				
\$	72.45	1.45%				
\$	-					
\$	96.11	1.45%				
	,734.20					
\$	-	0.00%				
\$	-					
\$ 2	,905.59	42.73%				
\$	-	0.00%				
-\$	127.80	-2.01%				
\$	141.53	2.93%				
	,919.32	17.07%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$	-	0.00%				
\$ 2	,919.32	4.30%				
\$	379.51	4.30%				
\$3	,298.83	4.30%				
\$	-					
\$3	,298.83	4.30%				

#### Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment C Page 11 of 14

#### Rate Class General Service 500-4999kW Non-RPP (Non-Interval)

Loss Factor

0.0360

Consumption

400,000 kWh

If Billed on a kW basis:

Demand

	Current Board-Approved			
	Rate Volume			Charge
		(\$)		(\$)
Monthly Service Charge	\$	1,631.56	1	\$ 1,631.56
Distribution Volumetric Rate	\$	2.2187	2,250	\$ 4,992.08
Volumetric Rate Riders (LRAM)	\$	-	2,250	\$ -
Sub-Total A (excluding pass through)				\$ 6,623.64
Total Variable Rate Riders	\$	-	2,250	\$ -
Low Voltage Service Charge	\$	0.0784	2,250	\$ 176.40
Smart Meter Entity Charge	\$	-	1	\$ -
Total Fixed Rate Riders	\$	-	1	\$ -
Sub-Total B - Distribution (includes Sub-Total A)				\$ 6,800.04
Transformer Allowance	-\$	0.4000	2,250	-\$ 900.00
RTSR - Network	\$	2.8320	2,250	\$ 6,372.00
RTSR - Connection and/or Line and Transformation Connection	\$	2.1488	2,250	\$ 4,834.80
Sub-Total C - Delivery (including Sub-Total B)				\$ 17,106.84
Wholesale Market Service Charge (WMSC)	\$	0.0044	414,400	\$ 1,823.36
Rural and Remote Rate Protection (RRRP)	\$	0.0013	414,400	\$ 538.72
Standard Supply Service Charge	\$	0.2500	1	\$ 0.25
Debt Retirement Charge (DRC)	\$	0.0070	400,000	\$ 2,800.00
Energy	\$	0.0940	750	\$ 70.50
Energy	\$	0.1100	413,650	\$ 45,501.50
Total Bill on TOU (before Taxes)				\$ 67,841.17
HST		13%		\$ 8,819.35
Total Bill (including HST)				\$ 76,660.52
Ontario Clean Energy Benefit 1				\$ -
Total Bill on TOU (including OCEB)				\$ 76,660.52

	Proposed				
	Rate	Volume	Charge		
	(\$)		(\$)		
\$	1,655.22	1	\$ 1,655.22		
\$	2.2509	2,250	\$ 5,064.53		
\$	-	2,250	\$ -		
			\$ 6,719.75		
\$	1.5197	2,250	\$ 3,419.33		
\$	0.0784	2,250	\$ 176.40		
\$	-	1	\$ -		
\$	75.28	1	\$ 75.28		
			\$ 10,390.75		
-\$	0.4000	2,250	-\$ 900.00		
\$	2.7752	2,250	\$ 6,244.20		
\$	2.2117	2,250	\$ 4,976.33		
			\$ 20,711.28		
\$	0.0044	414,400	\$ 1,823.36		
\$	0.0013	414,400	\$ 538.72		
\$	0.2500	1	\$ 0.25		
\$	0.0070	400,000	\$ 2,800.00		
\$	0.0940	750	\$ 70.50		
\$	0.1100	413,650	\$ 45,501.50		
			\$ 71,445.61		
	13%		\$ 9,287.93		
			\$ 80,733.53		
			\$ -		
			\$ 80,733.53		

Impact				
\$ C	hange	% Change		
\$	23.66	1.45%		
\$	72.45	1.45%		
\$	-			
\$	96.11	1.45%		
\$ 3	3,419.33			
\$	-	0.00%		
\$	-			
\$ 3	3,590.72	52.80%		
\$	-	0.00%		
	127.80	-2.01%		
\$	141.53	2.93%		
	3,604.44	21.07%		
\$	-	0.00%		
\$	-	0.00%		
\$	-	0.00%		
\$	-	0.00%		
\$	-	0.00%		
\$	-	0.00%		
\$ 3	3,604.44	5.31%		
*	468.58	5.31%		
	1,073.02	5.31%		
\$	-			
\$ 4	1,073.02	5.31%		

Enersource Hydro Mississauga Inc. Filed: August 17, 2015

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Attachment C Page 12 of 14 Rate Class Large Use- Class A Loss Factor 0.0145

0.0145 3,000,000

0,000 kWh

If Billed on a kW basis:

Demand

Consumption

Demand	10 3000 KVV				
	Current Board-Approved			1	
		Rate	Volume		Charge
		(\$)			(\$)
Monthly Service Charge	\$	12,864.22	1	\$	12,864.22
Distribution Volumetric Rate	\$	2.7539	5,000	\$	13,769.50
Volumetric Rate Riders (LRAM)	\$	-	5,000	\$	-
Sub-Total A (excluding pass through)				\$	26,633.72
Total Variable Rate Riders	\$	-	5,000	\$	-
Low Voltage Service Charge	\$	0.0838	5,000	\$	419.00
Smart Meter Entity Charge	\$	-	1	\$	-
Total Fixed Rate Riders	\$	-	1	\$	-
Sub-Total B - Distribution (includes Sub-Total A)				\$	27,052.72
Transformer Allowance	-\$	0.4000	5,000	-\$	2,000.00
RTSR - Network	\$	3.0220	5,000	\$	15,110.00
RTSR - Connection and/or Line and Transformation Connection	\$	2.2950	5,000	\$	11,475.00
Sub-Total C - Delivery (including Sub-Total B)				\$	51,637.72
Wholesale Market Service Charge (WMSC)	\$	0.0044	3,043,500	\$	13,391.40
Rural and Remote Rate Protection (RRRP)	\$	0.0013	3,043,500	\$	3,956.55
Standard Supply Service Charge	\$	0.2500	1	\$	0.25
Debt Retirement Charge (DRC)	\$	0.0070	3,000,000	\$	21,000.00
Energy	\$	0.0940	750	\$	70.50
Energy	\$	0.1100	3,042,750	\$	334,702.50
Total Bill on TOU (before Taxes)				\$	424,758.92
HST		13%		\$	55,218.66
Total Bill (including HST)				\$	479,977.58
Ontario Clean Energy Benefit 1				\$	-
Total Bill on TOU (including OCEB)				\$	479,977.58

	Proposed					
	Rate	Volume		Charge		
	(\$)			(\$)		
\$	13,050.75	1	\$	13,050.75		
\$	2.7938	5,000	\$	13,969.00		
\$	-	5,000	\$	-		
			\$	27,019.75		
\$	0.0962	5,000	\$	481.00		
\$	0.0838	5,000	\$	419.00		
\$	-	1	\$	-		
\$	593.53	1	\$	593.53		
			\$	28,513.28		
-\$	0.4000	5,000	-\$	2,000.00		
\$	2.9614	5,000	\$	14,807.00		
\$	2.3622	5,000	\$	11,811.00		
			\$	53,131.28		
\$	0.0044	3,043,500	\$	13,391.40		
\$	0.0013	3,043,500	\$	3,956.55		
\$	0.2500	1	\$	0.25		
\$	0.0070	3,000,000	\$	21,000.00		
\$	0.0940	750	\$	70.50		
\$	0.1100	3,042,750	\$ :	334,702.50		
			\$ 4	426,252.48		
	13%		\$	55,412.82		
			\$ 4	481,665.30		
			\$	-		
			\$ 4	481,665.30		

Impact				
\$ C	hange	% Change		
\$	186.53	1.45%		
\$	199.50	1.45%		
\$	-			
\$	386.03	1.45%		
\$	481.00			
\$	-	0.00%		
\$	-			
\$	1,460.56	5.40%		
\$	-	0.00%		
-\$	303.00	-2.01%		
\$	336.00	2.93%		
\$	1,493.56	2.89%		
\$	-	0.00%		
\$	-	0.00%		
\$	-	0.00%		
\$	-	0.00%		
\$	-	0.00%		
\$	-	0.00%		
\$	1,493.56	0.35%		
\$	194.16	0.35%		
\$	1,687.72	0.35%		
\$	-			
\$	1,687.72	0.35%		

#### Rate Class Large Use- Class B

Loss Factor Consumption

0.0145 3,000,000

kWh

If Billed on a kW basis:

Demand		5000	kW		
	T	Current Board-Approved			d
		Rate	Volume		Charge
		(\$)		İ	(\$)
Monthly Service Charge	\$	12,864.22	1	\$	12,864.22
Distribution Volumetric Rate	\$	2.7539	5,000	\$	13,769.50
Volumetric Rate Riders (LRAM)	\$	-	5,000	\$	-
Sub-Total A (excluding pass through)				\$	26,633.72
Total Variable Rate Riders	\$	-	5,000	\$	-
Low Voltage Service Charge	\$	0.0838	5,000	\$	419.00
Smart Meter Entity Charge	\$	-	1	\$	-
Total Fixed Rate Riders	\$		1	\$	
Sub-Total B - Distribution (includes Sub-Total A)				\$	27,052.72
Transformer Allowance	-\$	0.4000	5,000	-\$	2,000.00
RTSR - Network	\$	3.0220	5,000	\$	15,110.00
RTSR - Connection and/or Line and Transformation Connection	\$	2.2950	5,000	\$	11,475.00
Sub-Total C - Delivery (including Sub-Total B)				\$	51,637.72
Wholesale Market Service Charge (WMSC)	\$	0.0044	3,043,500	\$	13,391.40
Rural and Remote Rate Protection (RRRP)	\$	0.0013	3,043,500	\$	3,956.55
Standard Supply Service Charge	\$	0.2500	1	\$	0.25
Debt Retirement Charge (DRC)	\$	0.0070	3,000,000	\$	21,000.00
Energy	\$	0.0940	750	\$	70.50
Energy	\$	0.1100	3,042,750	\$	334,702.50
Total Bill on TOU (before Taxes)				\$ -	424,758.92
HST		13%		\$	55,218.66
Total Bill (including HST)				\$ -	479,977.58
Ontario Clean Energy Benefit 1				\$	-
Total Bill on TOU (including OCEB)				\$	479,977.58

Proposed					
Rate		Volume		Charge	
(\$)				(\$)	
\$	13,050.75	1	\$	13,050.75	
\$	2.7938	5,000	\$	13,969.00	
\$	-	5,000	\$	-	
			\$	27,019.75	
\$	1.3275	5,000	\$	6,637.50	
\$	0.0838	5,000	\$	419.00	
\$	-	1	\$	-	
\$	593.53	1	\$	593.53	
			\$	34,669.78	
-\$	0.4000	5,000	-\$	2,000.00	
\$	2.9614	5,000	\$	14,807.00	
\$	2.3622	5,000	\$	11,811.00	
			\$	59,287.78	
\$	0.0044	3,043,500	\$	13,391.40	
\$	0.0013	3,043,500	\$	3,956.55	
\$	0.2500	1	\$	0.25	
\$	0.0070	3,000,000	\$	21,000.00	
\$	0.0940	750	\$	70.50	
\$	0.1100	3,042,750	\$	334,702.50	
			\$	432,408.98	
	13%		\$	56,213.17	
			\$	488,622.15	
			\$	-	
			\$	488,622.15	

Impact					
\$ C	hange	% Change			
\$	186.53	1.45%			
\$	199.50	1.45%			
\$	-				
\$	386.03	1.45%			
\$	6,637.50				
\$	-	0.00%			
\$	-				
\$	7,617.06	28.16%			
\$	-	0.00%			
-\$	303.00	-2.01%			
\$ \$	336.00	2.93%			
\$	7,650.06	14.81%			
\$	-	0.00%			
\$	-	0.00%			
\$	-	0.00%			
\$	-	0.00%			
\$	-	0.00%			
\$	-	0.00%			
\$	7,650.06	1.80%			
\$	994.51	1.80%			
\$	8,644.57	1.80%			
\$	-				
\$	8,644.57	1.80%			

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Attachment C Page 14 of 14 Rate Class Street Light Non RPP

Loss Factor

0.0360

Consumption

33 kWh

If Billed on a kW basis:

Demand

0.1 kW

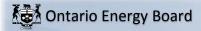
	Current Bo	ard-Appr	-Approved	
	Rate	Volume	Charge	
	(\$)		(\$)	
Monthly Service Charge	\$ 1.41	1	\$ 1.41	
Distribution Volumetric Rate	\$ 10.7732	0	\$ 1.08	
Volumetric Rate Riders (LRAM)	\$ -	0	\$ -	
Sub-Total A (excluding pass through)			\$ 2.49	
Total Variable Rate Riders	\$ -	0	\$ -	
Low Voltage Service Charge	\$ 0.0580	0	\$ 0.01	
Smart Meter Entity Charge	\$ -	1	\$ -	
Total Fixed Rate Riders	\$ -	1	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)			\$ 2.49	
RTSR - Network	\$ 2.0271	0	\$ 0.20	
RTSR - Connection and/or Line and Transformation Connection	\$ 1.5879	0	\$ 0.16	
Sub-Total C - Delivery (including Sub-Total B)			\$ 2.85	
Wholesale Market Service Charge (WMSC)	\$ 0.0044	34	\$ 0.15	
Rural and Remote Rate Protection (RRRP)	\$ 0.0013	34	\$ 0.04	
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	
Debt Retirement Charge (DRC)	\$ 0.0070	33	\$ 0.23	
Energy	\$ 0.0940	33	\$ 3.10	
Energy	\$ 0.1100	1	\$ 0.11	
Total Bill on TOU (before Taxes)			\$ 6.74	
HST	13%		\$ 0.88	
Total Bill (including HST)			\$ 7.62	
Ontario Clean Energy Benefit 1			\$ -	
Total Bill on TOU (including OCEB)			\$ 7.62	

Pı	Proposed			
Rate	Volume	Charge		
(\$)		(\$)		
\$ 1.43	1	\$ 1.43		
\$ 10.9294	0	\$ 1.09		
\$ -	0	\$ -		
		\$ 2.52		
\$ 1.5413	0	\$ 0.15		
\$ 0.0580	0	\$ 0.01		
\$ -	1	\$ -		
\$ 0.07	1	\$ 0.07		
		\$ 2.75		
\$ 1.9864	0	\$ 0.20		
\$ 1.6344	0	\$ 0.16		
		\$ 3.11		
\$ 0.0044	34	\$ 0.15		
\$ 0.0013	34	\$ 0.04		
\$ 0.2500	1	\$ 0.25		
\$ 0.0070	33	\$ 0.23		
\$ 0.0940	33	\$ 3.10		
\$ 0.1100	1	\$ 0.11		
		\$ 7.00		
13%		\$ 0.91		
		\$ 7.91		
		\$ -		
		\$ 7.91		

Impact					
\$ CI	nange	% Change			
\$	0.02	1.42%			
\$	0.02	1.45%			
\$	-				
\$	0.04	1.43%			
\$	0.15				
\$	-	0.00%			
\$	-				
\$	0.26	10.42%			
-\$	0.00	-2.01%			
\$	0.00	2.93%			
\$	0.26	9.12%			
\$	-	0.00%			
\$	-	0.00%			
	_	0.00%			
\$		0.0070			
\$	-	0.00%			
\$ \$	-				
\$	- - -	0.00%			
\$ \$ \$	- - -	0.00% 0.00%			
\$ \$ <b>\$</b>	0.26	0.00% 0.00%			
\$ \$ \$ \$ \$	0.26 0.03	0.00% 0.00% 0.00%			
\$ \$ <b>\$</b>		0.00% 0.00% 0.00% 3.86%			
\$ \$ \$ \$ \$ \$	0.03	0.00% 0.00% 0.00% 3.86% 3.86%			
\$ \$ \$ \$ \$ \$	0.03	0.00% 0.00% 0.00% 3.86% 3.86%			

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## **Incentive Regulation Model for 2016 Filers**

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Version Enersource Hydro Mississauga Inc. **Utility Name** Assigned EB Number EB-2015-0065 Name of Contact and Title Natalie Yeates, Manager, Rates & Settlements **Phone Number** 905-283-4095 **Email Address** nyeates@enersource.com January-01-16 We are applying for rates effective **Rate-Setting Method** Price Cap IR Please indicate in which Rate Year the Group 1 2014 accounts were last cleared1 Please indicate the last Cost of Service 2013 Re-Basing Year **Notes** Pale green cells represent input cells. Pale blue cells represent drop-down lists. The applicant should select the appropriate item from the drop-down list.

#### Note:

1. Rate year of application

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White cells contain fixed values, automatically generated values or formulae.

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## Intario Energy Board

## centive Regulation Model for 2016 Filers

# Enersource Hydro Mississauga Inc. 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-2014-0068

#### RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to all residential services including, without limitation, single family or single unit dwellings, multifamily dwellings, row-type dwellings and subdivision developments. Energy is supplied in single phase, 3-wire, or three phase, 4-wire, having a nominal voltage of 120/240 Volts. There shall be only one delivery point to a dwelling. 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.

Service Charge	\$	13.22
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0133
Low Voltage Service Rate	\$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0081
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0062
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

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## Intario Energy Board

## centive Regulation Model for 2016 Filers

#### GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to a non-residential account 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.

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.

Service Charge	\$	40.68
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0119
Low Voltage Service Rate	\$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0056
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

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### Intario Energy Board

## centive Regulation Model for 2016 Filers

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

This classification refers to a non-residential account 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 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.

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.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

#### MONTHLY RATES AND CHARGES - Delivery Component

Standard Supply Service - Administrative Charge (if applicable)

, ,		
Service Charge	\$	71.64
Distribution Volumetric Rate	\$/kW	4.3118
Low Voltage Service Rate	\$/kW	0.0802
Retail Transmission Rate - Network Service Rate	\$/kW	2.9272
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1960
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.9272
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.1960
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013

0.25

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GENERAL SERVICE 500 TO 4,999 KW SERVICE CLASSIFICATION

This classification refers to a non-residential account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 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.

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.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

Service Charge Distribution Volumetric Rate Low Voltage Service Rate Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$ \$/kW \$/kW \$/kW	1,631.56 2.2187 0.0784 2.8320 2.1488
MONTHLY RATES AND CHARGES - Regulatory Component	*****	
Wholesale Market Service Rate Rural or Remote Electricity Rate Protection Charge (RRRP) Standard Supply Service - Administrative Charge (if applicable)	\$/kWh \$/kWh \$	0.0044 0.0013 0.25

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### Intario Energy Board

## centive Regulation Model for 2016 Filers

#### 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**

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.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

Service Charge	\$	12,864.22
Distribution Volumetric Rate	\$/kW	2.7539
Low Voltage Service Rate	\$/kW	0.0838
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	3.0220
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.2950
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

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## Intario Energy Board

## centive Regulation Model for 2016 Filers

#### UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. The amount of electricity consumed by unmetered connections will be based on detailed information/documentation provided by the device's manufacturer and will be agreed to by Enersource Hydro Mississauga Inc. and the customer and may be subject to periodic monitoring of actual consumption. Eligible unmetered loads include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings. 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.

Service Charge (per connection)	\$	8.40
Distribution Volumetric Rate	\$/kWh	0.0153
Low Voltage Service Rate	\$/kWh	0.0002
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0056
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

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## Intario Energy Board

# centive Regulation Model for 2016 Filers STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting. Street Lighting is unmetered where energy consumption is estimated based on the connected wattage and calculated hours of use using methods established by the Ontario Energy Board. 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.

Service Charge (per light) Distribution Volumetric Rate Low Voltage Service Rate Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate	\$ \$/kW \$/kW \$/kW \$/kW	1.41 10.7732 0.0580 2.0271 1.5879
MONTHLY RATES AND CHARGES - Regulatory Component  Wholesale Market Service Rate Rural or Remote Electricity Rate Protection Charge (RRRP)  Standard Supply Service - Administrative Charge (if applicable)	\$/kWh \$/kWh \$	0.0044 0.0013 0.25

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## Intario Energy Board

# centive Regulation Model for 2016 Filers STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that requires Enersource Hydro Mississauga to provide distribution service on a standby basis as a back-up supply to an on-site generator. 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.

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

A Standby Service Charge will be applied for a month where standby power is not provided. The applicable rate is the approved Distribution Volumetric Rate of the applicable service class and is applied to gross metered demand or contracted amount, whichever is greater. A monthly administration charge of \$200, for simple metering arrangements, or \$500, for complex metering arrangements, will also be applied.

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## Intario Energy Board

## centive Regulation Model for 2016 Filers

#### 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**

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.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 5.40

#### **ALLOWANCES**

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.40)
Primary Metering Allowance for transformer losses - applied to measured demand and energy	%	(1.00)

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## Intario Energy Board

## centive Regulation Model for 2016 Filers

#### SPECIFIC SERVICE CHARGES

#### **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 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.

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.

#### **Customer Administration**

\$	15.00
\$	15.00
\$	15.00
\$	25.00
\$	15.00
\$	12.50
\$	30.00
\$	20.00
\$	10.00
%	1.50
%	19.56
\$	9.00
\$	20.00
\$	185.00
\$	415.00
\$	30.00
\$	40.00
\$	400.00
\$	22.35
	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

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## Intario Energy Board

## centive Regulation Model for 2016 Filers

### 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.

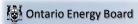
Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity.

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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)	Φ/ σασι.	(0.007
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	Ψ	0.00
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.

1.0360
1.0145
1.0256
1.0045



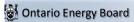
### **Incentive Regulation Model for 2016 Filers**

Please complete the following continuity schedule for the following Deferral / Variance Accounts. Enter information into green cells only. COLUMN AZ has been prepopulated from the latest 2.1.7 RRR filing.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your G/L for which you received approval. For example, if in the 2015 EDR process (CoS or IRM) you received approval for the December 31, 2013 balances, the starting point for your entries below should be the 2012 year. This will allow for the correct starting point for the 2013 opening balance columns for both principal and interest.

						2011				
Account Descriptions	Account Number	Opening Principal Amounts as of Jan-1-11	Transactions Debit / (Credit) during 2011 excluding interest and adjustments <sup>2</sup>	Board-Approved Disposition during 2011	Adjustments during 2011 - other <sup>1</sup>	Closing Principal Balance as of Dec-31-11	Opening Interest Amounts as of Jan-1-11	Interest Jan-1 to Dec-31-11	Board-Approved Disposition during 2011	Adjustments during 2011 - other <sup>2</sup>
Group 1 Accounts										
LV Variance Account	1550	2,000,049	1,492,594			3,492,643	11,627	38,470		
Smart Metering Entity Charge Variance	1551	0	0				0	0		
RSVA - Wholesale Market Service Charge	1580	(10,401,383)	(7,802,501)			(18,203,884)	(65,885)	(208,490)		
RSVA - Retail Transmission Network Charge	1584	(6,212,255)	499,949			(5,712,306)	(41,547)	,		
RSVA - Retail Transmission Connection Charge	1586	(5,293,496)	453,081			(4,840,415)	(36,402)			
RSVA - Power (excluding Global Adjustment)	1588	3,755,373	413,948			4,169,321	17,213	,		
RSVA - Global Adjustment	1589	(22,821,333)	2,042,513			(20,778,820)	(113,282)			
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>4</sup>	1595_(2008)	(203,108)				(203,108)	(77,336)			
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>4</sup>	1595_(2009)	6,321,395	(8,464,147)			(2,142,752)	(901,281)	728,553		
Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>4</sup>	1595_(2010)	0	0			0	0			
Disposition and Recovery/Refund of Regulatory Balances (2011) <sup>4</sup>	1595_(2011)	0	0			0	0			
Disposition and Recovery/Refund of Regulatory Balances (2012) <sup>4</sup>	1595_(2012)	0	0			0	0			
Disposition and Recovery/Refund of Regulatory Balances (2013) <sup>4</sup>	1595_(2013)	0	0			0	0			
Disposition and Recovery/Refund of Regulatory Balances (2014) <sup>4</sup>										
Not to be disposed of unless rate rider has expired and balance has been audited	1595_(2014)	0	0			0	0			
RSVA - Global Adjustment	1589	(22,821,333)	2,042,513	0	0	(20,778,820)	(113,282)	(331,638)	0	0
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(10,033,425)	(13,407,076)	0	0	(23,440,501)	(1,093,612)	440,239	0	0
Total Group 1 Balance		(32,854,758)	(11,364,563)	0	0	(44,219,321)	(1,206,894)	108,601	0	0
LRAM Variance Account (only input amounts if applying for disposition of this account)	1568					0				
Total including Account 1568		(32,854,758)	(11,364,563)	0	0	(44,219,321)	(1,206,894)	108,601	0	0

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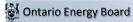


### **Incentive Regulation Model for 2016 Filers**

Please complete the following continuity schedule for the following Deferral / Variance Accounts. Enter information into green cells only. COLUMN AZ has been prepopulated from the latest 2.1.7 RRR filing.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your G/L for which you received approval. For example, if in the 2015 EDR process (CoS or IRM) you received approval for the December 31, 2013 balances, the starting point for your entries below should be the 2012 year. This will allow for the correct starting point for the 2013 opening balance columns for both principal and interest.

							2012			
Account Descriptions	Account Number	Closing Interest Amounts as of Dec-31-11	Opening Principal Amounts as of Jan-1-12	Transactions Debit / (Credit) during 2012 excluding interest and adjustments <sup>2</sup>	Board-Approved Disposition during 2012	Adjustments during 2012 - other <sup>1</sup>	Closing Principal Balance as of Dec-31-12	Opening Interest Amounts as of Jan-1-12	Interest Jan-1 to Dec-31-12	Board-Approved Disposition during 2012
Group 1 Accounts										
LV Variance Account	1550	50,097	3,492,643	1,690,690	2,000,049		3,183,284	50,097	38,368	43,517
Smart Metering Entity Charge Variance	1551									
RSVA - Wholesale Market Service Charge	1580	(274,375)	(18,203,884)	(9,704,716)	(10,401,473)		(17,507,127)	(274,375)	(208,234)	(231,638)
RSVA - Retail Transmission Network Charge	1584	(138,024)	(5,712,306)	1,692,259	(-) //		2,192,208		10,027	(140,595)
RSVA - Retail Transmission Connection Charge	1586	(119,244)	(4,840,415)	1,028,936			1,482,017	(119,244)		(120,802)
RSVA - Power (excluding Global Adjustment)	1588	80,408	,,-	716,652	-,,-		1,130,600	,	( //	77,088
RSVA - Global Adjustment	1589	(444,920)	(20,778,820)	(2,771,960)	(22,821,333)		(729,447)			(477,146)
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>4</sup>	1595_(2008)	(79,506)	(203,108)		(203,108)		0	(79,506)		(80,574)
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>4</sup>	1595_(2009)	(172,728)	(2,142,752)	(662,497)			(2,805,249)	(172,728)	21,253	0
Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>4</sup>	1595_(2010)	0	0	16,473,029	39,120,922		(22,647,893)	0	92,363	982,233
Disposition and Recovery/Refund of Regulatory Balances (2011) <sup>4</sup>	1595_(2011)	0	0				0	0		
Disposition and Recovery/Refund of Regulatory Balances (2012) <sup>4</sup>	1595_(2012)	0	0				0	0		
Disposition and Recovery/Refund of Regulatory Balances (2013) <sup>4</sup>	1595_(2013)	0	0				0	0		
Disposition and Recovery/Refund of Regulatory Balances (2014) <sup>4</sup>										
Not to be disposed of unless rate rider has expired and balance has been audited	1595_(2014)	0	0				0	0		
RSVA - Global Adjustment	1589	(444,920)	(20,778,820)	(2,771,960)	(22,821,333)	0	(729,447)	(444,920)	(31,191)	(477,146)
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(653,373)	(23,440,501)	11,234,352	22,766,012	0	(34,972,161)	(653,373)	(55,516)	529,229
Total Group 1 Balance		(1,098,293)	(44,219,321)	8,462,392	(55,321)	0	(35,701,608)	(1,098,293)	(86,708)	52,083
LRAM Variance Account (only input amounts if applying for disposition of this account)	1568	0		399,443			399,443	380		
Total including Account 1568		(1,098,293)	(44,219,321)	8,861,835	(55,321)	0	(35,302,165)	(1,097,913)	(86,708)	52,083



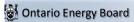
### **Incentive Regulation Model for 2016 Filers**

Please complete the following continuity schedule for the following Deferral / Variance Accounts. Enter information into green cells only. COLUMN AZ has been prepopulated from the latest 2.1.7 RRR filing.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your G/L for which you received approval. For example, if in the 2015 EDR process (CoS or IRM) you received approval for the December 31, 2013 balances, the starting point for your entries below should be the 2012 year. This will allow for the correct starting point for the 2013 opening balance columns for both principal and interest.

Account Descriptions								2013		
	Account Number	Adjustments during 2012 - other <sup>2</sup>	Closing Interest Amounts as of Dec-31-12	Opening Principal Amounts as of Jan-1-13	Transactions Debit / (Credit) during 2013 excluding interest and adjustments <sup>2</sup>	Board-Approved Disposition during 2013	Adjustments during 2013 - other <sup>1</sup>	Closing Principal Balance as of Dec-31-13	Opening Interest Amounts as of Jan-1-13	Interest Jan-1 to Dec-31-13
Group 1 Accounts										
LV Variance Account	1550		44,947	3,183,284	804,982	1,492,594		2,495,672	44,947	34,705
Smart Metering Entity Charge Variance	1551			0	(36,015)			(36,015)	0	(148)
RSVA - Wholesale Market Service Charge	1580		(250,971)	(17,507,127)	(4,742,782)	(7,802,411)		(14,447,499)	(250,971)	(209,514)
RSVA - Retail Transmission Network Charge	1584		12,598		3,416,732	499,948		5,108,992		46,249
RSVA - Retail Transmission Connection Charge	1586		3,791	1,482,017	681,958	453,078		1,710,897	3,791	18,475
RSVA - Power (excluding Global Adjustment)	1588		(8,206)	1,130,600	(1,860,216)	413,950		(1,143,566)	(8,206)	(19,174)
RSVA - Global Adjustment	1589		1,034	(729,447)	3,161,418	2,042,512		389,458	1,034	40,514
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>4</sup>	1595_(2008)		1,068	0				0	1,068	
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>4</sup>	1595_(2009)		(151,475)	(2,805,249)	(1,854)			(2,807,104)	(151,475)	(41,244)
Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>4</sup>	1595_(2010)		(889,870)	(22,647,893)	18,966,816			(3,681,077)	(889,870)	236,848
Disposition and Recovery/Refund of Regulatory Balances (2011) <sup>4</sup>	1595_(2011)		0	0	2,675			2,675	0	(5,660)
Disposition and Recovery/Refund of Regulatory Balances (2012) <sup>4</sup>	1595_(2012)		0	0				0	0	
Disposition and Recovery/Refund of Regulatory Balances (2013) <sup>4</sup>	1595_(2013)		0	0				0	0	
Disposition and Recovery/Refund of Regulatory Balances (2014) <sup>4</sup>										
Not to be disposed of unless rate rider has expired and balance has been audited	1595_(2014)		0	0				0	0	
RSVA - Global Adjustment	1589	С	1,034	(729,447)	3,161,418	2,042,512	0	389,458	1,034	40,514
Total Group 1 Balance excluding Account 1589 - Global Adjustment		C	(1,238,118)	(34,972,161)	17,232,295	(4,942,841)	0	(12,797,025)	(1,238,118)	60,538
Total Group 1 Balance		C	(1,237,084)	(35,701,608)	20,393,713	(2,900,329)	0	(12,407,567)	(1,237,084)	101,053
LRAM Variance Account (only input amounts if applying for disposition of this account)	1568	I	380	399,443	(338,024)			61,419	380	5,488
Total including Account 1568		0	(1,236,704)	(35.302.165)	20.055.689	(2.900.329)	0	(12.346.148)	(1.236.704)	106,541

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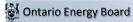


## **Incentive Regulation Model for 2016 Filers**

Please complete the following continuity schedule for the following Deferral / Variance Accounts. Enter information into green cells only. COLUMN AZ has been prepopulated from the latest 2.1.7 RRR filing.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your G/L for which you received approval. For example, if in the 2015 EDR process (CoS or IRM) you received approval for the December 31, 2013 balances, the starting point for your entries below should be the 2012 year. This will allow for the correct starting point for the 2013 opening balance columns for both principal and interest.

									2014	
Account Descriptions	Account Number	Board-Approved Disposition during 2013	Adjustments during 2013 - other <sup>2</sup>	Closing Interest Amounts as of Dec-31-13	Opening Principal Amounts as of Jan-1-14	Transactions Debit / (Credit) during 2014 excluding interest and adjustments <sup>2</sup>	Board-Approved Disposition during 2014	Adjustments during 2014 - other <sup>1</sup>	Closing Principal Balance as of Dec-31-14	Opening Interest Amounts as of Jan-1-14
Group 1 Accounts										
LV Variance Account	1550	28,521		51,132	2,495,672	938,909	1,690,690		1,743,891	51,132
Smart Metering Entity Charge Variance	1551			(148)	(36,015)	(33,601)			(69,617)	(148)
RSVA - Wholesale Market Service Charge	1580	(157,435)		(303,050)	(14,447,499)	(1,098,114)	(9,704,806)		(5,840,806)	(303,050)
RSVA - Retail Transmission Network Charge	1584	9,922		48,925	5,108,992	2,422,343	1,692,260		5,839,074	
RSVA - Retail Transmission Connection Charge	1586	8,221		14,046	1,710,897	2,297,463	1,028,939		2,979,421	14,046
RSVA - Power (excluding Global Adjustment)	1588	9,403		(36,783)	(1,143,566)	(490,297)	716,650		(2,350,513)	(36,783)
RSVA - Global Adjustment	1589	62,252		(20,703)	389,458	7,999,426	(2,771,959)		11,160,843	(20,703)
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>4</sup>	1595_(2008)	1,068		0	0				0	0
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>4</sup>	1595_(2009)			(192,718)	(2,807,104)		(2,807,104)		0	(192,718)
Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>4</sup>	1595_(2010)			(653,023)	(3,681,077)	1,560,914			(2,120,163)	(653,023)
Disposition and Recovery/Refund of Regulatory Balances (2011) <sup>4</sup>	1595_(2011)			(5,660)	2,675	379			3,054	(5,660)
Disposition and Recovery/Refund of Regulatory Balances (2012) <sup>4</sup>	1595_(2012)			0	0	9,885,177	10,153,475		(268,298)	0
Disposition and Recovery/Refund of Regulatory Balances (2013) <sup>4</sup>	1595_(2013)			0	0				0	0
Disposition and Recovery/Refund of Regulatory Balances (2014) <sup>4</sup>	_, ,									
Not to be disposed of unless rate rider has expired and balance has been audited	1595_(2014)			0	0				0	0
RSVA - Global Adjustment	1589	62,252	0	(20,703)	389,458	7,999,426	(2,771,959)	0	11,160,843	(20,703)
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(100,300)	0	(1,077,280)	(12,797,025)	15,483,172	2,770,104	0	(83,957)	(1,077,280)
Total Group 1 Balance		(38,049)	0	(1,097,983)	(12,407,567)	23,482,598	(1,855)	0	11,076,886	(1,097,983)
LRAM Variance Account (only input amounts if applying for disposition of this account)	1568			5,868	61,419	12,857			74,276	5,868
Total including Account 1568		(38,049)	0	(1,092,115)	(12,346,148)	23,495,455	(1,855)	0	11,151,162	(1,092,115)



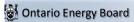
Please complete the following continuity schedule for the following Deferral / Variance Accounts. Enter information into green cells only. COLUMN AZ has been prepopulated from the latest 2.1.7 RRR filing.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your G/L for which you received approval. For example, if in the 2015 EDR process (CoS or IRM) you received approval for the December 31, 2013 balances, the starting point for your entries below should be the 2012 year. This will allow for the correct starting point for the 2013 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

							2	2015	
Account Descriptions	Account Number	Interest Jan-1 to Dec-31-14	Board-Approved Disposition during 2014	Adjustments during 2014 - other <sup>2</sup>	Closing Interest Amounts as of Dec-31-14	Principal Disposition during 2015 - instructed by Board	Interest Disposition during 2015 - instructed by Board	Closing Principal Balances as of Dec 31, 2014 Adjusted for Dispositions during 2015	Closing Interest Balances as of Dec 31, 2014 Adjusted for Dispositions during 2015
Group 1 Accounts									
LV Variance Account	1550	20,670	41,280		30,521			1,743,891	30,521
Smart Metering Entity Charge Variance	1551	(668)	0		(816)			(69,617)	
RSVA - Wholesale Market Service Charge	1580	(35,371)	(236,109)		(102,312)			(5,840,806)	(102,312)
RSVA - Retail Transmission Network Charge	1584	71,423	27,552		92,796			5,839,074	92,796
RSVA - Retail Transmission Connection Charge	1586	28,330	-,		31,680			2,979,421	
RSVA - Power (excluding Global Adjustment)	1588	2,507	(7,074)		(27,203)			(2,350,513)	
RSVA - Global Adjustment	1589	59,399	(101,965)		140,661			11,160,843	140,661
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>4</sup>	1595_(2008)				0			0	0
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>4</sup>	1595_(2009)		(192,718)		(0)			0	(0)
Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>4</sup>	1595_(2010)	3,820			(649,202)			(2,120,163)	(649,202)
Disposition and Recovery/Refund of Regulatory Balances (2011) <sup>4</sup>	1595_(2011)	24			(5,637)			3,054	(5,637)
Disposition and Recovery/Refund of Regulatory Balances (2012) <sup>4</sup>	1595_(2012)	383,550	458,332		(74,782)			(268,298)	(74,782)
Disposition and Recovery/Refund of Regulatory Balances (2013) <sup>4</sup>	1595_(2013)				0			0	0
Disposition and Recovery/Refund of Regulatory Balances (2014) <sup>4</sup>	_, ,								
Not to be disposed of unless rate rider has expired and balance has been audited	1595_(2014)				0			0	0
RSVA - Global Adjustment	1589	59,399	(101,965)	(	140,661	0	C	11,160,843	140,661
Total Group 1 Balance excluding Account 1589 - Global Adjustment		474,284	101,958	(	(704,955)	0	C	(83,957)	(704,955)
Total Group 1 Balance		533,682	(6)	(	(564,294)	0	C	11,076,886	(564,294)
LRAM Variance Account (only input amounts if applying for disposition of this account)	1568	689			6,557	0	C	74,276	6,557
Total including Account 1568		534,371	(6)	(	) (557,738)	0	C	11,151,162	(557,738)

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## **Incentive Regulation Model for 2016 Filers**

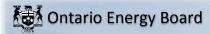
Please complete the following continuity schedule for the following Deferral / Variance Accounts. Enter information into green cells only. COLUMN AZ has been prepopulated from the latest 2.1.7 RRR filing.

If you have received approval to dispose of balances from prior years, the starting point for entries in the schedule below will be the balance sheet date as per your G/L for which you received approval. For example, if in the 2015 EDR process (CoS or IRM) you received approval for the December 31, 2013 balances, the starting point for your entries below should be the 2012 year. This will allow for the correct starting point for the 2013 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

						Rate Generator	
		Projected	Interest on Dec-3	1-14 Balances			
Account Descriptions	Account Number	Projected Interest from Jan 1, 2015 to December 31, 2015 on Dec 31, 2014 balance adjusted for disposition during 2015 <sup>3</sup>	Projected Interest from January 1, 2016 to April 30, 2016 on Dec 31, 2014 balance adjusted for disposition during 2014 <sup>3</sup>	Total Claim		As of Dec 31, 2014 (RRR - 2.1.7) April 30, 2015	Variance RRR vs. 2014 Balance (Principal + Interest)
Group 1 Accounts							
LV Variance Account	1550	19,183			1,793,595	1,774,413	0
Smart Metering Entity Charge Variance	1551	(766)			(71,198)	(70,433)	(0)
RSVA - Wholesale Market Service Charge	1580	(64,249)			(6,007,368)	(5,943,119)	(0)
RSVA - Retail Transmission Network Charge	1584	64,230			5,996,100		(0)
RSVA - Retail Transmission Connection Charge	1586	32,774			3,043,874		0
RSVA - Power (excluding Global Adjustment)	1588	(25,856)			(2,403,572)		0
RSVA - Global Adjustment	1589	122,769			11,424,273	11,301,504	0
Disposition and Recovery/Refund of Regulatory Balances (2008) <sup>4</sup>	1595_(2008)				0	0	0
Disposition and Recovery/Refund of Regulatory Balances (2009) <sup>4</sup>	1595_(2009)				(0)	0	0
Disposition and Recovery/Refund of Regulatory Balances (2010) <sup>4</sup>	1595_(2010)	(23,322)			(2,792,687)	(2,769,365)	0
Disposition and Recovery/Refund of Regulatory Balances (2011) <sup>4</sup>	1595_(2011)	34		Check to Dispose of Account	(2,549)	(2,582)	0
Disposition and Recovery/Refund of Regulatory Balances (2012) <sup>4</sup>	1595_(2012)	(2,951)		☑ Check to Dispose of Account.	(346,032)	(343,080)	0
Disposition and Recovery/Refund of Regulatory Balances (2013) <sup>4</sup>	1595_(2013)			Check to Dispose of Account.	0	0	0
Disposition and Recovery/Refund of Regulatory Balances (2014) <sup>4</sup>	_, ,			Check to Dispose of Account			
Not to be disposed of unless rate rider has expired and balance has been audited	1595_(2014)			_ onesic to bispose of recount	0	0	0
RSVA - Global Adjustment	1589	122,769	0	1	11,424,273	11,301,504	0
Total Group 1 Balance excluding Account 1589 - Global Adjustment		(924)	0		(789,835)	(788,911)	1
Total Group 1 Balance		121,846	0		10,634,438	10,512,593	1
LRAM Variance Account (only input amounts if applying for disposition of this account)	1568	817			81,649	80,832	(0)
Total including Account 1568		122,663	0	ı	10,716,087	10,593,425	1

\*\*Auto-populated by Rate Generator\*\*



Data on the populated filing.

Click on the

If you have please could be clicking

		** Auto Populated by Rate Generator from most recent RRR Filing **											
Rate Class	Unit	Total Metered kWh	Total Metered kW	Billed kWh for Non-RPP Customers	Estimated kW for Non-RPP Customers	Billed kWh for Wholesale Market Participants (WMP)	Billed kW for Wholesale Market Participants (WMP)						
RESIDENTIAL SERVICE CLASSIFICATION	kWh	1,469,096,847	0	91,130,679	0	0	0						
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	647,112,058	0	107,176,499	0	0	0						
GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION	kW	2,104,160,255	6,035,821	1,752,950,269	5,050,207	307,920	12,796						
GENERAL SERVICE 500 TO 4,999 KW SERVICE CLASSIFICATION	kW	2,087,036,250	4,709,432	1,904,049,776	4,321,176	17,469,875	31,090						
LARGE USE SERVICE CLASSIFICATION	kW	1,002,165,608	1,741,184	1,002,165,608	1,741,184	0	0						
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	11,501,822	0	523,144	0	0	0						
STREET LIGHTING SERVICE CLASSIFICATION	kW	31,923,315	90,307	31,923,315	90,307	0	0						
STANDBY POWER SERVICE CLASSIFICATION	kW	0	0	0	0	0	0						
	Total	7,352,996,155	12,576,744	4,889,919,290	11,202,874	17,777,795	43,886						

#### **Threshold Test**

Total Claim (including Account 1568) \$10,634,438

Total Claim for Threshold Test (All Group 1 Accounts) \$10,716,087

Threshold Test (Total claim per kWh) 2 \$0.0014

#### Account 1589 Memo Calculation

\$0.0029 Balance in Account 1589 divided by Non-RPP kWh less Class A kWh (column N)

<sup>&</sup>lt;sup>1</sup> Residual Account balance to be allocated to rate classes in proportion to the recovery share as established when rate riders were implemented.

<sup>&</sup>lt;sup>2</sup> The Threshold Test does not include the amount in 1568.

<sup>&</sup>lt;sup>3</sup> The proportion of customers for the Residential and GS<50 Classes will be used to allocate Account 1551.

<sup>&</sup>lt;sup>4</sup> Enter the percentage of the balance in account 1589 allocated to Class A customers. Distributors typically settle GA costs with Class A customers on the basis of actual (i.e. non-estimated) costs. If this is the cas

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nis worksheet has been using your most recent RRR

ne checkbox to confirm the of the data below:

e identified any issues, ntact the Board by IERE.

		**	Applicant to Enter	**					
Total Metered kWh less WMP consumption (if applicable)	Total Metered kW less WMP consumption (if applicable)	GA Allocator for Class A, Non-WMP Customers (if applicable) <sup>4</sup>	Billed kWh for Class A, Non-WMP Customers (if applicable)	Billed kW for Class A, Non-WMP Customers (if applicable)	Billed kWh for Non- RPP Customers LESS Class A Consumption	Billed kW for Non- RPP Customers LESS Class A Demand	1595 Recovery Share Proportion (2008) <sup>1</sup>	1595 Recovery Share Proportion (2009) <sup>1</sup>	1595 Recovery Share Proportion (2010) <sup>1</sup>
1,469,096,847	0		0	0	91,130,679	0			
647,112,058	0		0	0	107,176,499	0			
2,103,852,335	6,023,025				1,752,950,269	5,050,207			
2,069,566,375	4,678,342				1,904,049,776	4,321,176			
1,002,165,608	1,741,184		920,433,360	1,579,942	81,732,248	161,242			
11,501,822	0		0	0	523,144	0			
31,923,315	90,307	0%	0	0	31,923,315	90,307			
0	0				0	0			
7,335,218,360	12,532,858	0%	920,433,360	1,579,942	3,969,485,930	9,622,932	0%	0%	0%

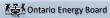
e, no amount of the balance in 1589 should be allocated to a distributor's Class A customers.

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** Applica	ant to Enter **				** Auto Populated**
1595 Recovery Share Proportion (2011) <sup>1</sup>		1595 Recovery Share Proportion (2013) <sup>1</sup>		1568 LRAM Variance Account Class Allocation (\$ amounts)	Number of Customers for Residential and GS<50 classes <sup>3</sup>
					179,407
					17,872
0%	0%	0%	0%	\$0.00	197,279
		1568 Account Balance from	Continuity Schedule	\$81,649.16	
		Total Balance of Acco	ount 1568 in Column W D	OES NOT MATCH the	

amount entered on the Continuity Schedule

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## **Incentive Regulation Model for 2016 Filers**

No input required. This workshseet allocates the deferral/variance account balances (Group 1, 1589, and 1568) to the appropriate classes as per the EDDVAR Report dated July 31, 2009

#### Allocation of Group 1 Accounts (including Account 1568)

		% of Total non-	% of Customer	% of Total kWh adjusted for			allocated based on Total less WMP			allocated based on Total less WMP									
Rate Class	% of Total kWh		Numbers **	WMP	1550	1551	1580	1584	1586	1588	1589	1595_(2008)	1595_(2009)	1595_(2010)	1595_(2011)	1595_(2012)	1595_(2013)	1595_(2014)	1568
RESIDENTIAL SERVICE CLASSIFICATION	20.0%	1.9%	90.9%	20.0%	358,353	(64,748)	(1,203,155)	1,197,995	608,153	(481,387)	2,288,052	0	0	0	0	0	0	0	
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	8.8%	2.2%	9.1%	8.8%	157,848	(6,450)	(529,969)	527,696	267,881	(212,043)	1,007,848	0	0	0	0	0	0	0	
GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION	28.6%	35.8%	0.0%	28.7%	513,262	0	(1,723,004)	1,715,866	871,046	(689,381)	3,276,655	0	0	0	0	0	0	0	
GENERAL SERVICE 500 TO 4,999 KW SERVICE CLASSIFICATION	28.4%	38.9%	0.0%	28.2%	509,085	0	(1,694,925)	1,701,902	863,958	(678,146)	3,223,257	0	0	0	0	0	0	0	
LARGE USE SERVICE CLASSIFICATION	13.6%	20.5%	0.0%	13.7%	244,455	0	(820,750)	817,229	414,860	(328,385)	1,560,828	0	0	0	0	0	0	0	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	0.2%	0.0%	0.0%	0.2%	2,806	0	(9,420)	9,379	4,761	(3,769)	17,914	0	0	0	0	0	0	0	
STREET LIGHTING SERVICE CLASSIFICATION	0.4%	0.7%	0.0%	0.4%	7,787	0	(26,144)	26,032	13,215	(10,460)	49,719	0	0	0	0	0	0	0	
STANDBY POWER SERVICE CLASSIFICATION	0.0%	0.0%	0.0%	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	100.0%	100.0%	100.0%	100.0%	1,793,595	(71,198)	(6,007,368)	5,996,100	3,043,874	(2,403,572)	11,424,273		0	0	0	0	0		0
rotar	100.0%	100.0%	100.0%	100.0%	1,793,595	(71,198)	(0,007,368)	5,396,100	5,043,874	(2,403,572)	11,424,273	U	U	U	U	U	U	U	U

<sup>\*</sup> RSVA - Power (Excluding Global Adjustment)

<sup>\*\*</sup> Used to allocate Account 1551 as this account records the variances arising from the Smart Metering Entity Charges to Residential and GS<50 customers.



Input required at cell C15 only. This worksheet calculates rate riders related to the Deferral/Variance Account Disposition (if applicable), associated rate riders for the global adjustment account (1589) and Account 1568. Rate Riders will not be generated for the microFIT class.

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

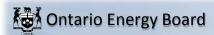
12
Rate Rider Recovery to be used below

							Allocation of Group 1		Deferral/Variance		Balance in Account	Allocation of	kW for Non-RPP				
				Total Metered	Total Metered	Allocation of Group 1	Account Balances to Non	<ul> <li>Deferral/Variance</li> </ul>	Account Rate Rider for	Allocation of	1589 to Class A	Balance in Account	Customers	Metered kWh or	Global	Class A	
		Total Metered	Metered kW	kWh less WMP	kW less WMP /	Account Balances to All	WMP Classes Only (If	Account Rate	Non-WMP	Balance in Account	Customers (if	1589 to Non-Class A	(less Non-WMP	kW for Class A	Adjustment	Rate Rider	Account 1568
Rate Class	Unit	kWh	or kVA	consumption	consumption	Classes	Applicable)	Rider	(if applicable)	1589	applicable)	Customers	if applicable)	Customers	Rate Rider	(if applicable)	Rate Rider
RESIDENTIAL SERVICE CLASSIFICATION	kWh	1,469,096,847	0	1,469,096,847	0	2,099,752	(1,684,542)	0.0014	(0.0011)	2,288,052		2,288,052	91,130,679	0	0.0251		
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	647,112,058	0	647,112,058	0	946,975	(742,012)	0.0015	(0.0011)	1,007,848		1,007,848	107,176,499	0	0.0094		
GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION	kW	2,104,160,255	6,035,821	2,103,852,335	6,023,025	3,100,174	(2,412,385)	0.5136	(0.4005)	3,276,655		3,276,655	5,037,411		0.6505		
GENERAL SERVICE 500 TO 4,999 KW SERVICE CLASSIFICATION	kW	2,087,036,250	4,709,432	2,069,566,375	4,678,342	3,074,944	(2,373,071)	0.6529	(0.5072)	3,223,257		3,223,257	4,290,086		0.7513		
LARGE USE SERVICE CLASSIFICATION	kW	1,002,165,608	1,741,184	1,002,165,608	1,741,184	1,476,545	(1,149,135)	0.8480	(0.6600)	1,560,828		1,560,828	1,741,184	1,579,942	0.8964		
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	11,501,822	0	11,501,822	0	16,946	(13,189)	0.0015	(0.0011)	17,914		17,914	523,144	0	0.0342		
STREET LIGHTING SERVICE CLASSIFICATION	kW	31,923,315	90,307	31,923,315	90,307	47,034	(36,605)	0.5208	(0.4053)	49,719	0	49,719	90,307	0	0.5506	0.0000	
STANDBY POWER SERVICE CLASSIFICATION	kW	0	0	0	0	0		0.0000	0.0000	0		0	0		0.0000		

Allocation of

Metered kWh or

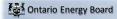
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# **Incentive Regulation Model for 2016 Filers**

### **Summary - Sharing of Tax Change Forecast Amounts**

For the 2013 year, enter any Tax Credits from the Cost of Service Tax Calculation (Positive #)	400,000	
1. Tax Related Amounts Forecast from Capital Tax Rate Changes	2013	2016
Taxable Capital (if you are not claiming capital tax, please enter your Board-Approved Rate Base)	\$ 623,497,833	\$ 623,497,833
Deduction from taxable capital up to \$15,000,000	\$ 15,000,000	\$ 15,000,000
Net Taxable Capital	\$ 608,497,833	\$ 608,497,833
Rate	0.00%	0.00%
Ontario Capital Tax (Deductible, not grossed-up)	\$ -	\$ -
2. Tax Related Amounts Forecast from Income Tax Rate Changes Regulatory Taxable Income	\$ 10,223,751	\$ 10,223,751
Corporate Tax Rate	26.16%	26.50%
Tax Impact	\$ 2,274,294	\$ 2,309,294
Grossed-up Tax Amount	\$ 3,079,932	\$ 3,141,897
Tax Related Amounts Forecast from Capital Tax Rate Changes	\$ -	\$ -
Tax Related Amounts Forecast from Income Tax Rate Changes	\$ 3,079,932	\$ 3,141,897
Total Tax Related Amounts	\$ 3,079,932	\$ 3,141,897
Incremental Tax to be recovered		\$ 61,965
Sharing of Tax Amount (50%)		\$ 30,982



Calculation of Rebased Revenue Requirement and Allocation of Tax Sharing Amount. Enter data from the last Board-Approved Cost of Service application in columns C through H. As per the Chapter 3 Filing Guidelines, shared tax rate riders are based on a 1 year disposition.

		Re-based Billed			Re-baed	Re-based Distribution	Re-based Distribution		Distribution Volumetric Rate	Distribution Volumetric Rate	Revenue		Distribution Volumetric Rate	Distribution Volumetric Rate	
Rate Class			Re-based Billed	Re-based Billed	Service Charge	Volumetric Rate kWh	Volumetric Rate	Service Charge Revenue	Revenue kWh	Revenue kW	Requirement from	Service Charge % Revenue	% Revenue	% Revenue	Total % Revenue
Nate Class		A	В	C	D	E	F	G = A * D *12	H = B * E	I = C * F	J = G + H + I	K = G / J	L=H/J	M=I/J	N = J / R
RESIDENTIAL SERVICE CLASSIFICATION	kWh	176,865	1,423,857,475		12.83	0.0129		27,230,135	18,367,761	0	45,597,897	59.7%	40.3%	0.0%	38.6%
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	17,703	612,188,101		39.49	0.0115		8,389,098	7,040,163	0	15,429,261	54.4%	45.6%	0.0%	13.1%
GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION	kW	3,950		6,222,022	69.54		4.1853	3,296,196	0	26,041,029	29,337,225	11.2%	0.0%	88.8%	24.8%
GENERAL SERVICE 500 TO 4,999 KW SERVICE CLASSIFICATION	kW	464		5,154,338	1583.69		2.1536	8,817,986	0	11,100,382	19,918,368	44.3%	0.0%	55.7%	16.9%
LARGE USE SERVICE CLASSIFICATION	kW	9		1,737,267	12486.80		2.6731	1,348,574	0	4,643,887	5,992,462	22.5%	0.0%	77.5%	5.1%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	2,942	10,383,027		8.15	0.0149		287,728	154,707	0	442,435	65.0%	35.0%	0.0%	0.4%
STREET LIGHTING SERVICE CLASSIFICATION	kW	49,986	0	49,889	1.37		10.4571	821,770	0	521,694	1,343,464	61.2%	0.0%	38.8%	1.1%
STANDBY POWER SERVICE CLASSIFICATION	kW							0	0	0	0	0.0%	0.0%	0.0%	0.0%
Total	•	251,919	2,046,428,602	13,163,516	•	•	•	50,191,487	25,562,632	42,306,993	118,061,111		•		100.0%

Rate Class		Total kWh (most recent RRR filing)	(most recent RRR filing)	Savings by Rate Class	Distribution Rate Rider	
RESIDENTIAL SERVICE CLASSIFICATION	kWh	1,469,096,847		11,966	0.01	\$/customer
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	647,112,058		4,049	0.0000	kWh
GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION	kW	2,104,160,255	6,035,821	7,699	0.0013	kW
GENERAL SERVICE 500 TO 4,999 KW SERVICE CLASSIFICATION	kW	2,087,036,250	4,709,432	5,227	0.0011	kW
LARGE USE SERVICE CLASSIFICATION	kW	1,002,165,608	1,741,184	1,573	0.0009	kW
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	11,501,822		116	0.0000	kWh
STREET LIGHTING SERVICE CLASSIFICATION	kW	31,923,315	90,307	353	0.0039	kW
STANDBY POWER SERVICE CLASSIFICATION	kW			0	0.0000	kW
Total		7.352.996.155	12.576.744	\$30.982		

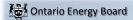
Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment D Page 26 of 50



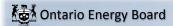
## **Incentive Regulation Model for 2016 Filers**

Columns E and F have been populated with data from the most recent RRR filing. Rate classes that have more than one Network or Connection charge will notice that the cells are highlighted in green and unlocked. If the data needs to be modified, please make the necessary adjustments and note the changes in your manager's summary. As well, the Loss Factor has been imported from Sheet 2.

Rate Class	Rate Description	Unit	Rate	Non-Loss Adjusted Metered kWh	Non-Loss Adjusted Metered kW	Applicable Loss Factor	Loss Adjusted Billed kWh
Residential Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0081	1,469,096,847	0	1.0000	1,469,096,847
Residential Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0062	1,469,096,847	0	1.0000	1,469,096,847
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076	647,112,058	0	1.0000	647,112,058
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0056	647,112,058	0	1.0000	647,112,058
General Service 50 To 499 kW Service Classification	Retail Transmission Rate - Network Service Rate	\$/kW	2.9272	1,052,080,128	3,017,911		
General Service 50 To 499 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1960	1,052,080,128	3,017,911		
General Service 50 To 499 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.9272	1,052,080,128	3,017,911		
General Service 50 To 499 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Meter	e \$/kW	2.1960	1,052,080,128	3,017,911		
General Service 500 To 4,999 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.8320	2,087,036,250	4,709,432		
General Service 500 To 4,999 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Meter	e \$/kW	2.1488	2,087,036,250	4,709,432		
Large Use Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	3.0220	1,002,165,608	1,741,184		
Large Use Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Meter	e \$/kW	2.2950	1,002,165,608	1,741,184		
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076	11,501,822	0	1.0000	11,501,822
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0056	11,501,822	0	1.0000	11,501,822
Street Lighting Service Classification	Retail Transmission Rate - Network Service Rate	\$/kW	2.0271	31,923,315	90,307		
Street Lighting Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.5879	31,923,315	90,307		

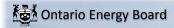


Uniform Transmission Rates	Unit	J	Effec January	tive 1, 2014		fective ry 1, 2015		fective ary 1, 2016
Rate Description			Ra	te		Rate		Rate
Network Service Rate	kW	\$		3.82	\$	3.78	\$	3.78
Line Connection Service Rate	kW	\$		0.82	\$	0.86	\$	0.86
Transformation Connection Service Rate	kW	\$		1.98	\$	2.00	\$	2.00
Hydro One Sub-Transmission Rates	Unit			ctive 1, 2014 30, 2015		fective 1, 2015		fective ary 1, 2016
Rate Description			Ra	te		Rate		Rate
Network Service Rate	kW	\$		3.23	\$	3.4121	\$	3.4121
Line Connection Service Rate	kW	\$		0.65	\$	0.7879	\$	0.7879
Transformation Connection Service Rate	kW	\$		1.62	\$	1.8018	\$	1.8018
Both Line and Transformation Connection Service Rate	kW	\$		2.27	\$	2.5897	\$	2.5897
If needed, add extra host here. (I)	Unit		Effect January			fective ary 1, 2015		ffective ary 1, 2016
Rate Description			Ra	te		Rate		Rate
Network Service Rate	kW							
Line Connection Service Rate	kW							
Transformation Connection Service Rate	kW							
Both Line and Transformation Connection Service Rate	kW	\$		-	\$	-	\$	-
If needed, add extra host here. (II)	Unit		Effect January			fective ary 1, 2015		ffective ary 1, 2016
Rate Description			Ra	te		Rate		Rate
Network Service Rate	kW							
Line Connection Service Rate	kW							
Transformation Connection Service Rate	kW							
Both Line and Transformation Connection Service Rate	kW	\$		-	\$	-	\$	-
Hydro One Sub-Transmission Rate Rider 9A	Unit		Effect January			fective ary 1, 2015		ffective ary 1, 2016
Rate Description			Ra	te		Rate		Rate
RSVA Transmission network – 4714 – which affects 1584	kW	\$		0.1465	\$	-	\$	-
RSVA Transmission connection – 4716 – which affects 1586	kW	\$		0.0667	\$	-	\$	-
RSVA LV - 4750 - which affects 1550	kW	\$		0.0475	\$	-	\$	-
RARA 1 – 2252 – which affects 1590	kW	\$		0.0419	\$	-	\$	-
RARA 1 – 2252 – which affects 1590 (2008)	kW	-\$		0.0270	\$	-	\$	-
RARA 1 – 2252 – which affects 1590 (2009)	kW	-\$		0.0006	\$	-	\$	-
Hydro One Sub-Transmission Rate Rider 9A	kW	\$		0.2750	\$		\$	
Low Voltage Switchgear Credit (if applicable, enter as a negative value)	\$		Historic	al 2014	Curr	ent 2015	Fore	cast 2016



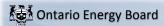
In the green shaded cells, enter billing detail for wholesale transmission for the same reporting period as the billing determinants on Sheet 9. For Hydro One Sub-transmission Rates, if you are charged a combined Line and Transformer connection rate, please ensure that both the line connection and transformer connection columns are completed.

IESO		Network		Lin	e Connecti	on	Transfor	mation Co	nnection	Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,001,207	\$3.82	\$ 3,824,611	1,082,897		\$ 887,976	1,082,897	\$1.98	\$ 2,144,136	\$ 3,032,112
February	979,472	\$3.82	\$ 3,741,583	1,007,682		\$ 826,299	1,007,682	\$1.98	\$ 1,995,210	\$ 2,821,510
March	994,433	\$3.82	\$ 3,798,734	1,035,492	\$0.82	\$ 849,103	1,035,492	\$1.98	\$ 2,050,274	\$ 2,899,378
April	817,739	\$3.82	\$ 3,123,763	909,948	\$0.82	\$ 746,157	909,948	\$1.98	\$ 1,801,697	\$ 2,547,854
May	978,209	\$3.82	\$ 3,736,758	1,011,835		\$ 829,705	1,011,835	\$1.98	\$ 2,003,433	\$ 2,833,138
June	1,112,607	\$3.82	\$ 4,250,159	1,148,096		\$ 941,439	1,148,096	\$1.98	\$ 2,273,230	\$ 3,214,669
July	1,088,544	\$3.82	\$ 4,158,238	1,170,061		\$ 959,450	1,170,061	\$1.98	\$ 2,316,721	\$ 3,276,171
August	1,109,138	\$3.82	\$ 4,236,907	1,172,206		\$ 961,209	1,172,206	\$1.98	\$ 2,320,968	, . ,
September	1,118,697	\$3.82	\$ 4,273,423	1,191,336		\$ 976,896	1,191,336	\$1.98	\$ 2,358,845	\$ 3,335,741
October	779,641	\$3.82	\$ 2,978,229	861,075		\$ 706,082	861,075	\$1.98	\$ 1,704,929	\$ 2,411,010
November	883,586	\$3.82	\$ 3,375,299	924,602		\$ 758,174	924,602	\$1.98	\$ 1,830,712	\$ 2,588,886
December	898,361	\$3.82	\$ 3,431,739	951,832	\$0.82	\$ 780,502	951,832	\$1.98	\$ 1,884,627	\$ 2,665,130
Total	11,761,634	\$ 3.82	\$ 44,929,442	12,467,062	\$ 0.82	\$ 10,222,991	12,467,062	\$ 1.98	\$ 24,684,783	\$ 34,907,774
Hydro One		Network		Lin	e Connecti	on	Transfor	mation Co	nnection	Total Line
Manuth		<b>-</b> .			<b>n</b> .			<b>.</b> .		
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	181,739	\$3.23	\$ 587,016	154,699	\$0.65	\$ 100,554	182,170	\$1.62	\$ 295,116	\$ 395,670
February	192,557	\$3.23	\$ 621,960	165,683	\$0.65	\$ 107,694	192,653	\$1.62	\$ 312,097	\$ 419,791
March	202,602	\$3.23	\$ 654,406	180,392	\$0.65	\$ 117,255	206,622	\$1.62	\$ 334,727	\$ 451,982
April	166,541	\$3.23	\$ 537,926	144,559		\$ 93,964	168,921	\$1.62	\$ 273,651	\$ 367,615
May	175,339	\$3.23	\$ 566,346	149,643		\$ 97,268	175,339	\$1.62	\$ 284,050	\$ 381,318
June	190,789	\$3.23	\$ 616,248	165,637		\$ 107,664	191,707	\$1.62	\$ 310,566	\$ 418,230
		\$3.23	\$ 661,288	188,738	\$0.65		213,300	\$1.62		
July	204,733									
August	213,425	\$3.23	\$ 689,363	190,969		\$ 124,130	217,388	\$1.62	\$ 352,168	\$ 476,298
September	174,638	\$3.23	\$ 564,079	182,640	\$0.65	\$ 118,716	205,793	\$1.62	\$ 333,385	\$ 452,101
October	188,731	\$3.23	\$ 609,602	166,410		\$ 108,166	189,009	\$1.62	\$ 306,194	\$ 414,360
November	185,233	\$3.23	\$ 598,303	160,721		\$ 104,468	185,728	\$1.62	\$ 300,879	\$ 405,348
December	217,217	\$3.23	\$ 701,612	191,454	\$0.65	\$ 124,445	217,217	\$1.62	\$ 351,892	\$ 476,337
Total	2,293,545	\$ 3.23	\$ 7,408,149	2,041,544	\$ 0.65	\$ 1,327,004	2,345,846	\$ 1.62	\$ 3,800,271	\$ 5,127,274
Add Extra Host Here (I)		Network		Lin	e Connecti	on	Transfor	mation Co	nnection	Total Line
(if needed)										
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January		\$0.00			\$0.00			\$0.00		\$ -
February		\$0.00			\$0.00			\$0.00		\$ -
March		\$0.00			\$0.00			\$0.00		\$ -
April		\$0.00			\$0.00			\$0.00		\$ -
May		\$0.00			\$0.00			\$0.00		\$ -
June		\$0.00			\$0.00			\$0.00		\$ -
July		\$0.00			\$0.00			\$0.00		\$ -
August		\$0.00			\$0.00			\$0.00		\$ -
September		\$0.00			\$0.00			\$0.00		\$ -
October		\$0.00			\$0.00			\$0.00		\$ -
November		\$0.00			\$0.00			\$0.00		\$ -
December		\$0.00			\$0.00			\$0.00		\$ -
Total		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	\$ -
Total	- !	-	\$ -				Transfor	*		
	- (	Network	\$ -		\$ - le Connecti		Transfor	\$ - mation Co		Total Line
Total  Add Extra Host Here (II)	Units Billed	-	\$ -				Transfor Units Billed	*		
Total  Add Extra Host Here (II)  (if needed)  Month		Network Rate		Lin	e Connecti Rate	on		mation Co Rate	nnection	Total Line Amount
Total  Add Extra Host Here (II)  (if needed)  Month  January		Network  Rate \$0.00		Lin	Rate	on		mation Co Rate \$0.00	nnection	Total Line Amount
Total  Add Extra Host Here (II) (if needed) Month  January February		Network  Rate \$0.00 \$0.00		Lin	Rate \$0.00 \$0.00	on		Rate \$0.00 \$0.00	nnection	Total Line  Amount  \$ - \$ -
Total  Add Extra Host Here (II)  (if needed)  Month  January February March		Network  Rate \$0.00 \$0.00 \$0.00		Lin	Rate \$0.00 \$0.00 \$0.00	on		mation Co  Rate  \$0.00 \$0.00 \$0.00	nnection	Total Line  Amount  \$ - \$ - \$ -
Total  Add Extra Host Here (II) (if needed)  Month  January February March April		Network  Rate \$0.00 \$0.00 \$0.00 \$0.00		Lin	Rate \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	on		**************************************	nnection	Total Line  Amount  \$ - \$ - \$ - \$ - \$ -
Add Extra Host Here (II)  (if needed)  Month  January February March April May		Network  Rate \$0.00 \$0.00 \$0.00 \$0.00 \$0.00		Lin	Rate \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	on		mation Co  Rate  \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	nnection	Amount  \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$
Add Extra Host Here (II) (if needed) Month  January February March April May June		Network  Rate \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00		Lin	Rate \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	on		mation Co  Rate  \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	nnection	Total Line  Amount  \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$
Total  Add Extra Host Here (II) (if needed)  Month  January February March April May June July		Network  Rate \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00		Lin	Rate \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	on		\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	nnection	Total Line  Amount  \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$
Add Extra Host Here (II) (if needed) Month  January February March April May June		Network  Rate \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00		Lin	Rate \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	on		mation Co  Rate  \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	nnection	Total Line  Amount  \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$
Total  Add Extra Host Here (II) (if needed)  Month  January February March April May June July		Network  Rate \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00		Lin	Rate \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	on		\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	nnection	Total Line



In the green shaded cells, enter billing detail for wholesale transmission for the same reporting period as the billing determinants on Sheet 9. For Hydro One Sub-transmission Rates, if you are charged a combined Line and Transformer connection rate, please ensure that both the line connection and transformer connection columns are completed.

October November December		\$0.00 \$0.00 \$0.00			\$0.00 \$0.00 \$0.00			\$0.00 \$0.00 \$0.00		\$ - \$ - \$ -
Total	- \$	-	\$ -		\$ -	\$ -	_	\$ -	\$ -	\$ -
Total		Network		Lin	e Connect	tion	Transfor	mation Co	nnection	Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,182,946	\$3.73	\$ 4,411,627	1,237,596	\$0.80	\$ 988,530	1,265,067	\$1.93	\$ 2,439,252	\$ 3,427,782
February	1,172,029	\$3.72	\$ 4,363,543	1,173,365	\$0.80	\$ 933,993	1,200,335	\$1.92	\$ 2,307,308	\$ 3,241,301
March	1,197,035	\$3.72	\$ 4,453,140	1,215,884	\$0.79	\$ 966,358	1,242,114	\$1.92	\$ 2,385,001	\$ 3,351,359
April	984,280	\$3.72	\$ 3,661,689	1,054,507	\$0.80	\$ 840,121	1,078,869	\$1.92	\$ 2,075,348	\$ 2,915,469
May	1,153,548	\$3.73	\$ 4,303,104	1,161,478	\$0.80	\$ 926,973	1,187,174	\$1.93	\$ 2,287,483	\$ 3,214,456
June	1,303,396	\$3.73	\$ 4,866,407	1,313,733	\$0.80	\$ 1,049,103	1,339,803	\$1.93	\$ 2,583,796	\$ 3,632,899
July	1,293,277	\$3.73	\$ 4,819,526	1,358,799	\$0.80	\$ 1,082,130	1,383,361	\$1.92	\$ 2,662,266	\$ 3,744,396
August	1,322,563	\$3.72	\$ 4,926,270	1,363,175	\$0.80	\$ 1,085,339	1,389,594	\$1.92	\$ 2,673,136	\$ 3,758,475
September	1,293,335	\$3.74	\$ 4,837,502	1,373,976	\$0.80	\$ 1,095,611	1,397,129	\$1.93	\$ 2,692,230	\$ 3,787,841
October	968,372	\$3.71	\$ 3,587,831	1,027,485	\$0.79	\$ 814,248	1,050,084	\$1.92	\$ 2,011,123	\$ 2,825,370
November	1,068,819	\$3.72	\$ 3,973,602	1,085,323	\$0.79	\$ 862,642	1,110,330	\$1.92	\$ 2,131,591	\$ 2,994,233
December	1,115,578	\$3.71	\$ 4,133,351	1,143,286	\$0.79	\$ 904,947	1,169,049	\$1.91	\$ 2,236,520	\$ 3,141,467
Total	14,055,179 \$	3.72	2 \$ 52,337,591	14,508,606	\$ 0.80	\$ 11,549,995	14,812,908	\$ 1.92	\$ 28,485,053	\$ 40,035,048



The purpose of this sheet is to calculate the expected billing when current 2015 Uniform Transmission Rates are applied against historical 2015 transmission units.

IESO		Network		Lin	e Connection		Tuesefee		u a ati a u	Total Line
IESU		Network		Line	e Connection	1	Transfor	mation Con	nection	l otal Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,001,207 \$	3.7800 \$			\$ 0.8600		1,082,897		\$ 2,165,794	\$ 3,097,085
February	979,472 \$	3.7800 \$		1,007,682	\$ 0.8600 \$	866,607	1,007,682	\$ 2.0000	\$ 2,015,364	\$ 2,881,971
March	994,433 \$	3.7800 \$	3,758,957	1,035,492	\$ 0.8600 \$	890,523	1,035,492	\$ 2.0000	\$ 2,070,984	\$ 2,961,507
April	817,739 \$	3.7800 \$	3,091,053	909,948	\$ 0.8600 \$	782,555	909,948	\$ 2.0000	\$ 1,819,896	\$ 2,602,451
May	978,209 \$	3.7800 \$			\$ 0.8600 \$		1,011,835		\$ 2,023,670	\$ 2,893,848
June	1,112,607 \$	3.7800 \$	4,205,654	1,148,096	\$ 0.8600 \$	987,363	1,148,096	\$ 2.0000	\$ 2,296,192	\$ 3,283,555
July	1,088,544 \$	3.7800 \$	4,114,696	1,170,061	\$ 0.8600 \$	1,006,252	1,170,061	\$ 2.0000	\$ 2,340,122	\$ 3,346,374
August	1,109,138 \$	3.7800 \$	4,192,542	1,172,206	\$ 0.8600 \$	1,008,097	1,172,206	\$ 2.0000	\$ 2,344,412	\$ 3,352,509
September	1,118,697 \$	3.7800 \$	4,228,675	1,191,336	\$ 0.8600 \$	1,024,549	1,191,336	\$ 2.0000	\$ 2,382,672	\$ 3,407,221
October	779,641 \$	3.7800 \$	2,947,043	861,075	\$ 0.8600 \$	740,525	861,075	\$ 2.0000	\$ 1,722,150	\$ 2,462,675
November	883,586 \$	3.7800 \$	3,339,955	924,602	\$ 0.8600 \$	795,158	924,602	\$ 2.0000	\$ 1,849,204	\$ 2,644,362
December	898,361 \$	3.7800 \$	3,395,805	951,832	\$ 0.8600 \$	818,576	951,832	\$ 2.0000	\$ 1,903,664	\$ 2,722,240
Total	11,761,634 \$	3.78 \$	44,458,977	12,467,062	\$ 0.86	10,721,673	12,467,062	\$ 2.00	\$ 24,934,124	\$ 35,655,797
Hydro One		Network		Line	e Connection	1	Transfor	mation Con	nection	Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	181,739 \$	3.3765 \$	613,641	154,699	\$ 0.7167	110,873	182.170	\$ 1.6200	\$ 295,116	\$ 405,988
February	192,557 \$	3.3765 \$			\$ 0.7167				\$ 312,097	\$ 430,842
March	202,602 \$	3.3765 \$		180,392					\$ 334,727	\$ 464,014
April	166,541 \$	3.3765 \$			\$ 0.7167				\$ 273,651	\$ 377,257
May	175,339 \$	3.4121 \$			\$ 0.7879				\$ 315,926	\$ 433,830
June	190,789 \$	3.4121 \$			\$ 0.7879				\$ 345,418	\$ 475,923
July	204,733 \$	3.4121 \$		188,738					\$ 384,323	\$ 533,030
August	213,425 \$	3.4121 \$			\$ 0.7879				\$ 391,689	\$ 542,154
September	174,638 \$	3.4121 \$			\$ 0.7879				\$ 370,798	\$ 514,700
October	188,731 \$	3.4121 \$			\$ 0.7879				\$ 340,556	\$ 471,670
November	185,233 \$	3.4121 \$	632,034	160,721	\$ 0.7879	126,632	185,728	\$ 1.8018	\$ 334,645	\$ 461,276
December	217,217 \$	3.4121 \$		191,454	\$ 0.7879	150,846		\$ 1.8018		\$ 542,229
Total	2,293,545 \$	3.40 \$	7,799,337	2,041,544	\$ 0.77	1,562,585	2,345,846	\$ 1.74	\$ 4,090,329	\$ 5,652,914
Add Extra Host Here (I)		Network		Line	e Connection	1	Transfor	mation Con	nection	Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	- \$	- \$	_	- :	\$ - 5	-	-	\$ -	s -	\$ -
February	- \$	- \$	_	- :	\$ - 9	-	-	\$ -	\$ -	\$ -
March	- \$	- \$	_	- :	\$ - 9	-	-	\$ -	\$ -	\$ -
April	- \$	- \$	-	- :	· \$ - \$	-	-	\$ -	\$ -	\$ -
May	- \$	- \$	_	- :	· \$ - \$	-	-	\$ -	\$ -	\$ -
June	- \$	- \$	_	- :	· \$ - \$	-	-	\$ -	· \$ -	\$ -
July	- \$	- \$	_	- :	· \$ - \$	-	-	\$ -	· \$ -	\$ -
August	- \$	- \$	-	- :	\$ - 9	-	-	\$ -	\$ -	\$ -
September	- \$	- \$	-	- :	· \$ - \$	-	-	\$ -	\$ -	\$ -
October	- \$	- \$	-	- :	\$ - \$	-	-	\$ -	\$ -	\$ -
November	- \$	- \$	-	-	\$ - 9	-	-		\$ -	\$ -
December	- \$	- \$	-	- :	\$ - 9		-	\$ -	\$ -	\$ -
Total	- \$	- \$	-	- :	\$ - \$	-		\$ -	\$ -	\$ -



The purpose of this sheet is to calculate the expected billing when current 2015 Uniform Transmission Rates are applied against historical 2015 transmission units.

Add Extra Host Here (II)		Network		Liı	ne Connectio	on	Transfo	rmation Cor	nnection	Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
February	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
March	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
April	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
May	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
June	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
July	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
August	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
September	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
October	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
November	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
December	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Total	- 9	-	\$ -	-	\$ -	\$ -	-	\$ -	\$ -	\$ -
Total		Network		Liı	ne Connectio	on	Transfo	rmation Cor	nection	Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,182,946	\$3.72	\$ 4,398,203	1,237,596	\$0.84	\$ 1,042,164	1,265,067	\$1.95	\$ 2,460,910	\$ 3,503,074
February	1,172,029	\$3.71	\$ 4,352,574	1,173,365		\$ 985,351	1,200,335	\$1.94	\$ 2,327,461	\$ 3,312,813
March	1,197,035	\$3.71	\$ 4,443,044	1,215,884	\$0.84	\$ 1,019,810	1,242,114	\$1.94	\$ 2,405,711	\$ 3,425,521
April	984,280	\$3.71	\$ 3,653,378	1,054,507	\$0.84	\$ 886,161	1,078,869	\$1.94	\$ 2,093,547	\$ 2,979,708
May	1,153,548	\$3.72	\$ 4,295,905	1,161,478	\$0.85	\$ 988,082	1,187,174	\$1.97	\$ 2,339,596	\$ 3,327,678
June	1,303,396	\$3.73	\$ 4,856,645	1,313,733	\$0.85	\$ 1,117,868	1,339,803	\$1.97	\$ 2,641,610	\$ 3,759,478
July	1,293,277	\$3.72	\$ 4,813,266	1,358,799	\$0.85	\$ 1,154,959	1,383,361	\$1.97	\$ 2,724,445	\$ 3,879,405
August	1,322,563	\$3.72	\$ 4,920,769	1,363,175	\$0.85	\$ 1,158,562	1,389,594	\$1.97	\$ 2,736,101	\$ 3,894,663
September	1,293,335	\$3.73	\$ 4,824,556	1,373,976	\$0.85	\$ 1,168,451	1,397,129	\$1.97	\$ 2,753,470	\$ 3,921,921
October	968,372	\$3.71	\$ 3,591,013	1,027,485	\$0.85	\$ 871,639	1,050,084	\$1.96	\$ 2,062,706	\$ 2,934,344
November	1,068,819	\$3.72	\$ 3,971,989	1,085,323	\$0.85	\$ 921,790	1,110,330	\$1.97	\$ 2,183,849	\$ 3,105,638
December	1,115,578	\$3.71	\$ 4,136,972	1,143,286	\$0.85	\$ 969,422	1,169,049	\$1.96	\$ 2,295,046	\$ 3,264,468
Total	14 055 179 9	3.72	\$ 52 258 314	14 508 606	\$ 0.85	\$ 12 284 258	14 812 908	\$ 1.96	\$ 29 024 453	\$ 41 308 711



The purpose of this sheet is to calculate the expected billing when forecasted 2016 Uniform Transmission Rates are applied against historical 2014 transmission units.

IESO	Net	work	Lir	ne Connection		Transfor	mation Conr	nection	Total Line
Month	Units Billed Ra	ate Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,001,207 \$ 3	3,784,562	1,082,897	\$ 0.8600 \$	931,291	1,082,897	\$ 2.0000	\$ 2,165,794	\$ 3,097,085
February		3,702,404	1,007,682	\$ 0.8600 \$	866,607	1,007,682	\$ 2.0000		\$ 2,881,971
March		3,758,957	1,035,492		890,523		\$ 2.0000		\$ 2,961,507
April		3,091,053		\$ 0.8600 \$	782,555		\$ 2.0000		\$ 2,602,451
May		3,697,630		\$ 0.8600 \$	870,178	1,011,835			\$ 2,893,848
June		3.7800 \$ 4,205,654		\$ 0.8600 \$	987,363		\$ 2.0000	, , .	\$ 3,283,555
July		3.7800 \$ 4,114,696	1,170,061		1,006,252		\$ 2.0000		\$ 3,346,374
August		3.7800 \$ 4,192,542		\$ 0.8600 \$	1,008,097		\$ 2.0000		\$ 3,352,509 \$ 3,407,221
September October		3.7800 \$ 4,228,675 3.7800 \$ 2,947,043		\$ 0.8600 \$ \$ 0.8600 \$	1,024,549 740,525		\$ 2.0000 \$ 2.0000		\$ 3,407,221 \$ 2,462,675
November		3.7800 \$ 2,947,043 3.7800 \$ 3,339,955		\$ 0.8600 \$	795,158		\$ 2.0000		\$ 2,462,675
December		3,395,805 3,395,805		\$ 0.8600 \$	818,576		\$ 2.0000		\$ 2,722,240
December	090,301 φ 3	5.7000 \$ 3,393,003	931,032	\$ 0.0000 \$	010,570	931,032	φ 2.0000 .	φ 1,903,004	φ 2,722,240
Total	11,761,634 \$	3.78 \$ 44,458,977	12,467,062	\$ 0.86 \$	10,721,673	12,467,062	\$ 2.00	\$ 24,934,124	\$ 35,655,797
Hydro One	Net	work	Lir	ne Connection		Transfor	mation Conr	nection	Total Line
Month	Units Billed Ra	ate Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	181,739 \$ 3	3.4121 \$ 620,111	154,699	\$ 0.7879 \$	121,887	182,170	\$ 1.8018	\$ 328,234	\$ 450,122
February		3.4121 \$ 657.025		\$ 0.7879 \$	130.541		\$ 1.8018		\$ 477,663
March		3.4121 \$ 691,299		\$ 0.7879 \$	142,131			\$ 372,291	\$ 514,422
April	166,541 \$ 3	3.4121 \$ 568,253	144,559	\$ 0.7879 \$	113,898	168,921	\$ 1.8018		\$ 418,259
May	175,339 \$ 3	3.4121 \$ 598,275	149,643	\$ 0.7879 \$	117,904	175,339	\$ 1.8018	\$ 315,926	\$ 433,830
June		3.4121 \$ 650,991		\$ 0.7879 \$	130,505		\$ 1.8018		\$ 475,923
July	204,733 \$ 3			\$ 0.7879 \$	148,707		\$ 1.8018		\$ 533,030
August		3.4121 \$ 728,227		\$ 0.7879 \$	150,464		\$ 1.8018		\$ 542,154
September		3.4121 \$ 595,881		\$ 0.7879 \$	143,902		\$ 1.8018		\$ 514,700
October		3.4121 \$ 643,970		\$ 0.7879 \$	131,114			\$ 340,556	\$ 471,670
November		3.4121 \$ 632,034		\$ 0.7879 \$	126,632		\$ 1.8018		\$ 461,276
December	217,217 \$ 3	3.4121 \$ 741,168	191,454	\$ 0.7879 \$	150,846	217,217	\$ 1.8018	\$ 391,382	\$ 542,229
Total	2,293,545 \$	3.41 \$ 7,825,803	2,041,544	\$ 0.79 \$	1,608,533	2,345,846	\$ 1.80	\$ 4,226,745	\$ 5,835,278
Add Extra Host Here (I)	Net	work	Lir	ne Connection		Transfor	mation Conr	nection	Total Line
Month	Units Billed Ra	ate Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	- \$	- \$ -	-	\$ - \$	-	-		\$ -	\$ -
February	- \$	- \$ -	-	\$ - \$	-	-		\$ -	\$ -
March	- \$	- \$ -	-	\$ - \$	-	-		\$ -	\$ -
April	- \$	- \$ -	-	\$ - \$	-	-	Ŧ .	\$ -	\$ -
May	- \$	- \$ -	-	\$ - \$	-	-		\$ -	\$ -
June	- \$	- \$ -	-	\$ - \$	-	-		\$ -	\$ -
July	- \$	- \$ -	-	\$ - \$	-	-		\$ -	\$ -
August	- \$	- \$ -	-	\$ - \$	-	-		\$ -	\$ - \$ -
September	- \$ - \$	- \$ -	-	\$ - \$ \$ - \$	-	-		\$ - \$ -	\$ - \$ -
October November	- \$ - \$	- \$ - - \$ -	-	\$ - \$ \$ - \$	-	-		\$ - \$ -	\$ - \$ -
December	- \$ - \$	- \$ -	-	\$ - \$	-	-		\$ - \$ -	\$ - \$ -
	- Ψ	Ψ -		Ψ - Φ			Ψ - ·	Ψ - 	·
Total	- \$	- \$ -	-	\$ - \$	-	-	\$ - :	\$ -	\$ -



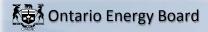
The purpose of this sheet is to calculate the expected billing when forecasted 2016 Uniform Transmission Rates are applied against historical 2014 transmission units.

Add Extra Host Here (II)		Network		Lir	ne Connectior	1	Transfo	rmation Con	nection	Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	-	\$ -	\$ -	-	\$ - \$	; -	-	\$ -	\$ -	\$ -
February	-	\$ -	\$ -	-	\$ - \$	-	-	\$ -	\$ -	\$ -
March	-	\$ -	\$ -	-	\$ - \$	•	-	\$ -	\$ -	\$ -
April	-	\$ -	\$ -	-	\$ - \$	•	-	\$ -	\$ -	\$ -
May	-	ų.	\$ -	-	\$ - \$	•	-	\$ -	\$ -	\$ -
June	-	ų.	\$ -	-	\$ - \$	•	-	\$ -	\$ -	\$ -
July	-	ų.	\$ -	-	\$ - \$	•	-	\$ -	\$ -	\$ -
August	-	Ψ	\$ -	-	\$ - \$	•	-	\$ -	\$ -	\$ -
September	-	T	\$ -	-	\$ - \$	•	-	\$ -	\$ -	\$ -
October	-		\$ -	-	\$ - \$	•	-	\$ -	\$ -	\$ -
November	-		\$ -	-	\$ - \$		-		\$ -	\$ -
December	-	\$ -	\$ -	-	\$ - \$	-	-	\$ -	\$ -	\$ -
Total	-	\$ -	\$ -		\$ - \$	-		\$ -	\$ -	\$ -
Total		Network		Lir	ne Connection	n	Transfo	rmation Con	nection	Total Line
Month	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Units Billed	Rate	Amount	Amount
January	1,182,946	\$ 3.72	\$ 4,404,673	1,237,596	\$ 0.85 \$	1,053,179	1,265,067	\$ 1.97	\$ 2,494,028	\$ 3,547,207
February	1,172,029	\$ 3.72	\$ 4,359,429	1,173,365	\$ 0.85 \$	997,148	1,200,335	\$ 1.97	\$ 2,362,486	\$ 3,359,634
March	1,197,035	\$ 3.72	\$ 4,450,256	1,215,884	\$ 0.85 \$	1,032,654	1,242,114	\$ 1.97	\$ 2,443,275	\$ 3,475,929
April	984,280	\$ 3.72	\$ 3,659,307	1,054,507	\$ 0.85 \$	896,454	1,078,869	\$ 1.97	\$ 2,124,257	\$ 3,020,711
May	1,153,548	\$ 3.72	\$ 4,295,905	1,161,478	\$ 0.85 \$	988,082	1,187,174	\$ 1.97	\$ 2,339,596	\$ 3,327,678
June	1,303,396	\$ 3.73	\$ 4,856,645	1,313,733	\$ 0.85 \$	1,117,868	1,339,803	\$ 1.97	\$ 2,641,610	\$ 3,759,478
July	1,293,277				\$ 0.85 \$		1,383,361			\$ 3,879,405
August	1,322,563				\$ 0.85 \$		1,389,594			\$ 3,894,663
September	1,293,335			1,373,976	\$ 0.85 \$		1,397,129			\$ 3,921,921
October	968,372			1,027,485	\$ 0.85 \$		1,050,084			\$ 2,934,344
November	1,068,819				\$ 0.85 \$		1,110,330			\$ 3,105,638
December	1,115,578	\$ 3.71	\$ 4,136,972	1,143,286	\$ 0.85 \$	969,422	1,169,049	\$ 1.96	\$ 2,295,046	\$ 3,264,468
Total	14.055.179	\$ 3.72	\$ 52.284.780	14.508.606	\$ 0.85 \$	12.330.206	14.812.908	\$ 1.97	\$ 29.160.869	\$ 41,491,076



The purpose of this table is to re-align the current RTS Network Rates to recover current wholesale network costs.

Rate Class	Rate Description	Unit	Current RTSR- Network	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Adjusted RTSR Network
Residential Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0081	1,469,096,847	0	11,899,684	22.3%	11,655,040	0.0079
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076	647,112,058	0	4,918,052	9.2%	4,816,942	0.0074
General Service 50 To 499 kW Service Classification	Retail Transmission Rate - Network Service Rate	\$/kW	2.9272		3,017,911	8,834,028	16.6%	8,652,410	2.8670
General Service 50 To 499 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.9272		3,017,911	8,834,029	16.6%	8,652,411	2.8670
General Service 500 To 4,999 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.8320		4,709,432	13,337,111	25.0%	13,062,915	2.7738
Large Use Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	3.0220		1,741,184	5,261,858	9.9%	5,153,680	2.9599
Unmetered Scattered Load Service Classification	Retail Transmission Rate - Network Service Rate	\$/kWh	0.0076	11,501,822	0	87,414	0.2%	85,617	0.0074
Street Lighting Service Classification	Retail Transmission Rate - Network Service Rate	\$/kW	2.0271		90,307	183,061	0.3%	179,298	1.9854
The purpose of this table is to re-align the current R	TS Connection Rates to recover current wholesale connection costs.							Current	المعاددة المعاددة
Rate Class	Rate Description	Unit	Current RTSR- Connection	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Wholesale Billing	Adjusted RTSR- Connection
Residential Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0062	1,469,096,847	0	9,108,400	22.6%	9,333,988	0.0064
General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0056	647,112,058	0	3,623,828	9.0%	3,713,579	0.0057
General Service 50 To 499 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.1960		3,017,911	6,627,331	16.4%	6,791,471	2.2504
General Service 50 To 499 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.1960		3,017,911	6,627,333	16.4%	6,791,472	2.2504
General Service 500 To 4,999 kW Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.1488		4,709,432	10,119,627	25.1%	10,370,260	2.2020
Large Use Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.2950	44 504 000	1,741,184	3,996,017	9.9%	4,094,987	2.3518
Unmetered Scattered Load Service Classification Street Lighting Service Classification	Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh \$/kW	0.0056 1.5879	11,501,822	0 90,307	64,410 143,398	0.2% 0.4%	66,005 146,950	0.0057 1.6272
	RTS Network Rates to recover future wholesale network costs.	•				-,		-,	
The purpose of this table to to apaate the re anglied								Current	Dranasad
Rate Class	Rate Description	Unit	Adjusted RTSR- Network	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Proposed RTSR- Network
		<b>Unit</b> \$/kWh	•	•	Billed kW			Wholesale	RTSR-
Rate Class	Rate Description	•	Network	Billed kWh		Amount	Amount %	Wholesale Billing	RTSR- Network
Rate Class  Residential Service Classification	Rate Description  Retail Transmission Rate - Network Service Rate	\$/kWh	<b>Network</b> 0.0079	Billed kWh 1,469,096,847	0	Amount 11,655,040	Amount %	Wholesale Billing 11,660,943	RTSR- Network 0.0079
Rate Class  Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification	Rate Description  Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Network Service Rate	\$/kWh \$/kWh \$/kW \$/kW	0.0079 0.0074 2.8670 2.8670	Billed kWh 1,469,096,847	0 0 3,017,911 3,017,911	Amount 11,655,040 4,816,942 8,652,410 8,652,411	22.3% 9.2% 16.6% 16.6%	Wholesale Billing 11,660,943 4,819,382 8,656,792 8,656,793	RTSR- Network 0.0079 0.0074 2.8685 2.8685
Rate Class  Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 500 To 4,999 kW Service Classification	Rate Description  Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kWh \$/kWh \$/kW \$/kW	0.0079 0.0074 2.8670 2.8670 2.7738	Billed kWh 1,469,096,847	0 0 3,017,911 3,017,911 4,709,432	Amount 11,655,040 4,816,942 8,652,410 8,652,411 13,062,915	Amount %  22.3% 9.2% 16.6% 16.6% 25.0%	Wholesale Billing 11,660,943 4,819,382 8,656,792 8,656,793 13,069,531	Network  0.0079 0.0074 2.8685 2.8685 2.7752
Rate Class  Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 4,999 kW Service Classification Large Use Service Classification	Rate Description  Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kWh \$/kWh \$/kW \$/kW \$/kW	0.0079 0.0074 2.8670 2.8670 2.7738 2.9599	Billed kWh 1,469,096,847 647,112,058	0 0 3,017,911 3,017,911 4,709,432 1,741,184	Amount 11,655,040 4,816,942 8,652,410 8,652,411 13,062,915 5,153,680	22.3% 9.2% 16.6% 16.6% 25.0% 9.9%	Wholesale Billing 11,660,943 4,819,382 8,656,792 8,656,793 13,069,531 5,156,290	Network  0.0079 0.0074 2.8685 2.8685 2.77752 2.9614
Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 500 To 4,999 kW Service Classification Large Use Service Classification Unmetered Scattered Load Service Classification	Rate Description  Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate	\$/kWh \$/kWh \$/kW \$/kW \$/kW \$/kW	0.0079 0.0074 2.8670 2.8670 2.7738 2.9599 0.0074	Billed kWh 1,469,096,847	0 0 3,017,911 3,017,911 4,709,432 1,741,184 0	Amount 11,655,040 4,816,942 8,652,410 8,652,411 13,062,915 5,153,680 85,617	22.3% 9.2% 16.6% 16.6% 25.0% 9.99% 0.2%	Wholesale Billing 11,660,943 4,819,382 8,656,792 8,656,793 13,069,531 5,156,290 85,660	Network  0.0079 0.0074 2.8685 2.8685 2.7752 2.9614 0.0074
Rate Class  Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 4,999 kW Service Classification Large Use Service Classification	Rate Description  Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kWh \$/kWh \$/kW \$/kW \$/kW	0.0079 0.0074 2.8670 2.8670 2.7738 2.9599	Billed kWh 1,469,096,847 647,112,058	0 0 3,017,911 3,017,911 4,709,432 1,741,184	Amount 11,655,040 4,816,942 8,652,410 8,652,411 13,062,915 5,153,680	22.3% 9.2% 16.6% 16.6% 25.0% 9.9%	Wholesale Billing 11,660,943 4,819,382 8,656,792 8,656,793 13,069,531 5,156,290	Network  0.0079 0.0074 2.8685 2.8685 2.77752 2.9614
Rate Class  Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification Large Use Service Classification Unmetered Scattered Load Service Classification Street Lighting Service Classification	Rate Description  Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate	\$/kWh \$/kWh \$/kW \$/kW \$/kW \$/kW	0.0079 0.0074 2.8670 2.8670 2.7738 2.9599 0.0074	Billed kWh 1,469,096,847 647,112,058	0 0 3,017,911 3,017,911 4,709,432 1,741,184 0	Amount 11,655,040 4,816,942 8,652,410 8,652,411 13,062,915 5,153,680 85,617	22.3% 9.2% 16.6% 16.6% 25.0% 9.99% 0.2%	Wholesale Billing 11,660,943 4,819,382 8,656,792 8,656,793 13,069,531 5,156,290 85,660 179,389	RTSR- Network 0.0079 0.0074 2.8685 2.8685 2.7752 2.9614 0.0074 1.9864
Rate Class  Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification Large Use Service Classification Unmetered Scattered Load Service Classification Street Lighting Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Network Service Rate	\$/kWh \$/kWh \$/kW \$/kW \$/kW \$/kW	0.0079 0.0074 2.8670 2.8670 2.7738 2.9599 0.0074 1.9854	Billed kWh 1,469,096,847 647,112,058	0 0 3,017,911 3,017,911 4,709,432 1,741,184 0	Amount 11,655,040 4,816,942 8,652,410 8,652,411 13,062,915 5,153,680 85,617	22.3% 9.2% 16.6% 16.6% 25.0% 9.99% 0.2%	Wholesale Billing 11,660,943 4,819,382 8,656,792 8,656,793 13,069,531 5,156,290 85,660	Network  0.0079 0.0074 2.8685 2.8685 2.7752 2.9614 0.0074
Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 500 To 4,999 kW Service Classification Large Use Service Classification Unmetered Scattered Load Service Classification Street Lighting Service Classification The purpose of this table is to update the re-aligned	Rate Description  Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Network Service Rate	\$/kWh \$/kWh \$/kW \$/kW \$/kW \$/kWh \$/kWh	0.0079 0.0074 2.8670 2.8670 2.7738 2.9559 0.0074 1.9854	Billed kWh  1,469,096,847 647,112,058  11,501,822  Loss Adjusted	0 0 0,07,911 3,017,911 4,709,432 1,741,184 0 90,307	Amount 11,655,040 4,816,942 8,652,410 8,652,411 13,062,915 5,153,680 85,617 179,298	22.3% 9.2% 16.6% 16.6% 25.0% 9.9% 0.2% 0.3%	Wholesale Billing 11,660,943 4,819,382 8,656,793 13,069,531 5,156,290 85,660 179,389 Current Wholesale	RTSR- Network  0.0079 0.0074 2.8685 2.8685 2.7752 2.9614 0.0074 1.9864  Proposed RTSR-
Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 500 To 499 kW Service Classification General Service 500 To 4,999 kW Service Classification Large Use Service Classification Unmetered Scattered Load Service Classification Street Lighting Service Classification  The purpose of this table is to update the re-aligned Rate Class	Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate RTS Connection Rates to recover future wholesale connection costs.  Rate Description	\$/kWh \$/kWh \$/kW \$/kW \$/kW \$/kWh \$/kWh	0.0079 0.0074 2.8670 2.8670 2.7738 2.9599 0.0074 1.9854  Adjusted RTSR-Connection	Billed kWh  1,469,096,847 647,112,058  11,501,822  Loss Adjusted Billed kWh	0 0 3,017,911 4,709,432 1,741,184 0 90,307	Amount  11,655,040 4,816,942 8,652,410 8,652,411 13,062,915 5,153,880 85,617 179,298  Billed Amount	22.3% 9.2% 16.6% 16.6% 25.0% 9.9% 0.2% 0.3%  Billed Amount %	Wholesale Billing 11,660,943 4,819,382 8,656,792 8,656,793 13,069,531 5,156,290 85,660 179,389 Current Wholesale Billing	RTSR- Network  0.0079 0.0074 2.8685 2.8685 2.7752 2.9614 0.0074 1.9864  Proposed RTSR- Connection
Rate Class  Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service Classification Large Use Service Classification Unmetered Scattered Load Service Classification Street Lighting Service Classification  The purpose of this table is to update the re-aligned Rate Class  Residential Service Classification	Rate Description  Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Network Service Rate RTS Connection Rates to recover future wholesale connection costs.  Rate Description  Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh \$/kW \$/kW \$/kW \$/kW \$/kWh \$/kWh	0.0079 0.0074 2.8670 2.8670 2.7738 2.9599 0.0074 1.9854  Adjusted RTSR-Connection 0.0064	Billed kWh  1,469,096,847 647,112,058  11,501,822  Loss Adjusted Billed kWh  1,469,096,847	0 0 0,7,911 3,017,911 4,709,432 1,741,184 0 90,307	Amount  11,655,040 4,816,942 8,652,410 8,652,411 13,062,915 5,153,680 85,617 179,298  Billed Amount  9,333,988	22.3% 9.2% 16.6% 16.6% 25.0% 9.9% 0.2% 0.3%  Billed Amount % 22.6%	Wholesale Billing 11,660,943 4,819,382 8,656,793 13,069,531 5,156,290 85,660 179,389 Current Wholesale Billing 9,375,195	RTSR- Network  0.0079 0.0074 2.8685 2.8685 2.7752 2.9614 0.0074 1.9864  Proposed RTSR- Connection 0.0064
Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification Large Use Service Classification Classification Unmetered Scattered Load Service Classification Street Lighting Service Classification The purpose of this table is to update the re-aligned Rate Class  Residential Service Classification General Service Less Than 50 kW Service Classification	Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh \$/kW \$/kW \$/kW \$/kW \$/kW \$/kW \$/kW \$/kW	0.0079 0.0074 2.8670 2.8670 2.7738 2.9599 0.0074 1.9854  Adjusted RTSR-Connection  0.0064 0.0057 2.2504	Billed kWh  1,469,096,847 647,112,058  11,501,822  Loss Adjusted Billed kWh  1,469,096,847	0 0 3,017,911 3,017,911 4,709,432 1,741,184 0 90,307 <b>Billed kW</b>	Amount  11,655,040 4,816,942 8,652,411 8,652,411 13,062,915 5,153,680 85,617 179,298  Billed Amount  9,333,988 3,713,579 6,791,471 6,791,471	22.3% 9.2% 16.6% 16.6% 25.0% 9.9% 0.2% 0.3%  Billed Amount %  22.6% 9.0% 16.4%	Wholesale Billing 11,660,943 4,819,382 8,656,792 8,656,793 13,069,531 5,156,290 85,660 179,389 Current Wholesale Billing 9,375,195 3,729,973 6,821,453 6,821,454	RTSR- Network  0.0079 0.0074 2.8685 2.8685 2.7752 2.9614 0.0074 1.9864  Proposed RTSR- Connection  0.0064 0.0058 2.2603
Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification Large Use Service Classification Unmetered Scattered Load Service Classification Street Lighting Service Classification  The purpose of this table is to update the re-aligned Rate Class  Residential Service Classification General Service 50 To 499 kW Service Classification	Rate Description  Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	S/kWh S/kWh S/kW S/kW S/kWh S/kWh S/kWh S/kWh S/kWh S/kWh S/kWh S/kW	0.0079 0.0074 2.8670 2.8670 2.7738 2.9559 0.0074 1.9854  Adjusted RTSR-Connection  0.0064 0.0057 2.2504 2.2504 2.2020	Billed kWh  1,469,096,847 647,112,058  11,501,822  Loss Adjusted Billed kWh  1,469,096,847	0 0 3,017,911 4,709,432 1,741,184 0 90,307 <b>Billed kW</b>	Amount  11,655,040 4,816,942 8,652,410 8,652,411 13,062,915 5,153,680 85,617 179,298  Billed Amount  9,333,988 3,713,579 6,791,471 6,791,472 10,370,260	22.3% 9.2% 16.6% 16.6% 25.0% 9.9% 0.2% 0.3%  Billed Amount % 22.6% 9.0% 16.4% 25.1%	Wholesale Billing 11,660,943 4,819,382 8,656,793 13,069,531 5,156,290 85,660 179,389 Current Wholesale Billing 9,375,195 3,729,973 6,821,454 10,416,041	RTSR- Network  0.0079 0.0074 2.8685 2.8685 2.7752 2.9614 0.0074 1.9864  Proposed RTSR- Connection  0.0064 0.0058 2.2603 2.2603 2.2117
Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 500 To 4,999 kW Service Classification Large Use Service Classification Unmetered Scattered Load Service Classification Street Lighting Service Classification The purpose of this table is to update the re-aligned Rate Class  Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service Classification	Rate Description  Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	S/kWh S/kW S/kW S/kW S/kW S/kWh S/kWh S/kWh S/kWh S/kWh S/kW S/kW S/kW	0.0079 0.0074 2.8670 2.8670 2.8670 2.7738 2.9599 0.0074 1.9854  Adjusted RTSR-Connection  0.0064 0.0057 2.2504 2.2504 2.2020 2.3518	Billed kWh  1,469,096,847 647,112,058  11,501,822  Loss Adjusted Billed kWh  1,469,096,847 647,112,058	0 0 0,77,911 3,017,911 4,709,432 1,741,184 0 90,307 Billed kW	Amount  11,655,040 4,816,942 8,652,411 8,652,411 13,062,915 5,153,680 85,617 179,298  Billed Amount  9,333,988 3,713,579 6,791,471 6,791,472 10,370,260 4,094,987	22.3% 9.2% 16.6% 16.6% 25.0% 9.9% 0.2% 0.3%  Billed Amount %  22.6% 9.0% 16.4% 16.4% 16.4% 25.1% 9.9%	Wholesale Billing 11,660,943 4,819,382 8,656,792 8,656,793 13,069,531 5,156,290 85,660 179,389 Current Wholesale Billing 9,375,195 6,821,453 6,821,453 6,821,454 10,416,041 4,113,065	RTSR- Network  0.0079 0.0074 2.8685 2.8685 2.7752 2.9614 0.0074 1.9864  Proposed RTSR- Connection  0.0064 0.0058 2.2603 2.2603 2.2117 2.3622
Residential Service Classification General Service Less Than 50 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification General Service 50 To 499 kW Service Classification Large Use Service Classification Unmetered Scattered Load Service Classification Street Lighting Service Classification  The purpose of this table is to update the re-aligned Rate Class  Residential Service Classification General Service 50 To 499 kW Service Classification	Rate Description  Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate - Interval Metered Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Network Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	S/kWh S/kWh S/kW S/kW S/kWh S/kWh S/kWh S/kWh S/kWh S/kWh S/kWh S/kW	0.0079 0.0074 2.8670 2.8670 2.7738 2.9559 0.0074 1.9854  Adjusted RTSR-Connection  0.0064 0.0057 2.2504 2.2504 2.2020	Billed kWh  1,469,096,847 647,112,058  11,501,822  Loss Adjusted Billed kWh  1,469,096,847	0 0 3,017,911 4,709,432 1,741,184 0 90,307 <b>Billed kW</b>	Amount  11,655,040 4,816,942 8,652,410 8,652,411 13,062,915 5,153,680 85,617 179,298  Billed Amount  9,333,988 3,713,579 6,791,471 6,791,472 10,370,260	22.3% 9.2% 16.6% 16.6% 25.0% 9.9% 0.2% 0.3%  Billed Amount % 22.6% 9.0% 16.4% 25.1%	Wholesale Billing 11,660,943 4,819,382 8,656,793 13,069,531 5,156,290 85,660 179,389 Current Wholesale Billing 9,375,195 3,729,973 6,821,454 10,416,041	RTSR- Network  0.0079 0.0074 2.8685 2.8685 2.7752 2.9614 0.0074 1.9864  Proposed RTSR- Connection  0.0064 0.0058 2.2603 2.2603 2.2117



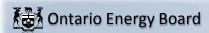
If applicable, please enter any adjustments related to the revenue to cost ratio model into columns C and E. The Price Escalator and Stretch Factor have been set at the 2015 values and will be updated by Board staff at a later date.

Price Escalator	1.60%	Productivity Factor	0.00%	# of Residential Customers	176,865	(last CoS Approved Billing Determinants)
Choose Stretch Factor Group	II	Price Cap Index	1.45%	Billed kWh	1,423,857,475	
Associated Stretch Factor Value	0.15%			Rate Design Transition Years Left	4	

Rate Class	Current MFC	MFC Adjustment from R/C Model	Current Volumetric Charge	DVR Adjustment from R/C Model	Price Cap Index to be Applied to MFC and DVR	Proposed MFC	Proposed Volumetric Charge	
RESIDENTIAL SERVICE CLASSIFICATION	13.22		0.0133		1.45%	15.67	0.0101	
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	40.68		0.0119		1.45%	41.27	0.0121	
GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION	71.64		4.3118		1.45%	72.68	4.3743	
GENERAL SERVICE 500 TO 4,999 KW SERVICE CLASSIFICATION	1,631.56		2.2187		1.45%	1,655.22	2.2509	
LARGE USE SERVICE CLASSIFICATION	12,864.22		2.7539		1.45%	13,050.75	2.7938	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	8.40		0.0153		1.45%	8.52	0.0155	
STREET LIGHTING SERVICE CLASSIFICATION	1.41		10.7732		1.45%	1.43	10.9294	
microFIT SERVICE CLASSIFICATION	5.40					5.40		
Rate Design Transition		Revenue from Rates	Current F/V Split	Decoupling MFC Split	Incremental Fixed Charge (\$/month/year)	New F/V Split	Adjusted Rates <sup>1</sup>	Revenue at New F/V Split
Current Residential Fixed Rate (inclusive of R/C adj.)	13.22	28,057,864	59.7%	10.1%	2.23	69.8%	15.45	32,790,771
Current Residential Variable Rate (inclusive of R/C adj.)	0.0133	18,937,304	40.3%			30.2%	0.0100	14,238,575
		46,995,168	•					47,029,346

<sup>&</sup>lt;sup>1</sup> These are the residential rates to which the Price Cap Index will be applied to.

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# **Incentive Regulation Model for 2016 Filers**

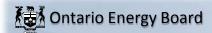
In the Green Cells below, enter any proposed rate riders that are not already included in this model (e.g. proposed ICM rate riders). Please note that existing SMIRR and SM Entity Charge do not need to be included below.

In column A, the rate rider descriptions must begin with "Rate Rider for".

places.

In column C, enter the rate. All rate riders with a "\$" unit should be rounded to 2 decimal places a	ind all others r	ounded to 4 decima
RESIDENTIAL SERVICE CLASSIFICATION		
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION		
GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION		
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Jan 01, 2017	\$/kW	
Applicable only for Non-RPP Customers - Non-Interval Metered		0.7894
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Jan 01, 2017	\$/kW	0
Applicable only for Non-RPP Customers - Interval Metered		0.5247

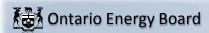
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# **Incentive Regulation Model for 2016 Filers**

GENERAL SERVICE 500 TO 4,999 KW SERVICE CLASSIFICATION  LARGE USE SERVICE CLASSIFICATION  UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION		
LARGE USE SERVICE CLASSIFICATION		
LARGE USE SERVICE CLASSIFICATION		
LARGE USE SERVICE CLASSIFICATION		
LARGE USE SERVICE CLASSIFICATION	GENERAL SERVICE 500 TO 4.999 KW SERVICE CLASSIFICATION	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	LARGE USE SERVICE CLASSIFICATION	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION		
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION		
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION		
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION		
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UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION		
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION		
	UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	

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# **Incentive Regulation Model for 2016 Filers**

STREET LIGHTING SERVICE CLASSIFICATION	
STANDBY POWER SERVICE CLASSIFICATION	
microFIT SERVICE CLASSIFICATION	

Enersource Hydro Mississauga Inc.
Filed: August 17, 2015
2016 Price Cap IR Application
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# **Enersource Hydro Mississauga Inc.**TARIFF OF RATES AND CHARGES

Effective and Implementation Date January-01-16
This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors

EB-2014-0068

### RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to all residential services including, without limitation, single family or single unit dwellings, multi-family dwellings, row-type dwellings and subdivision developments. Energy is supplied in single phase, 3-wire, or three phase, 4-wire, having a nominal voltage of 120/240 Volts. There shall be only one delivery point to a dwelling. 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.

Service Charge	\$	15.67
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0101
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017	\$/kWh	0.0014
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017		
Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.0011)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Jan 01, 2017		
Applicable only for Non-RPP Customers	\$/kWh	0.0251
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Application of Tax Change (2015) – effective untilDec 30, 2016	\$/kWh	0.0100
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0079
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0064
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

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065

Attachment D Page 40 of 50

# **Enersource Hydro Mississauga Inc.**TARIFF OF RATES AND CHARGES

**Effective and Implementation Date January-01-16** 

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

EB-2014-0068

### GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to a non-residential account 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.

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.

Service Charge	\$	41.27
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0121
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017	\$/kWh	0.0015
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017		
Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.0011)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Jan 01, 2017		
Applicable only for Non-RPP Customers	\$/kWh	0.0094
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Application of Tax Change (2015) – effective untilDec 30, 2016	\$/kWh	0.0000
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0074
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0058
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

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# **Enersource Hydro Mississauga Inc.**TARIFF OF RATES AND CHARGES

Effective and Implementation Date January-01-16
This schedule supersedes and replaces all previously
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EB-2014-0068

### GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION

This classification refers to a non-residential account 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 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.

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.

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

Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

Service Charge	\$	72.68
Distribution Volumetric Rate	\$/kW	4.3743
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017	\$/kW	0.5136
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017		
Applicable only for Non-Wholesale Market Participants	\$/kW	(0.4005)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Jan 01, 2017		
Applicable only for Non-RPP Customers	\$/kW	0.6505
Low Voltage Service Rate	\$/kW	0.0802
Rate Rider for Application of Tax Change (2015) – effective untilDec 30, 2016	\$/kW	0.0013
Retail Transmission Rate - Network Service Rate	\$/kW	2.8685
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.2603
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.8685
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.2603
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

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# **Enersource Hydro Mississauga Inc.**TARIFF OF RATES AND CHARGES

**Effective and Implementation Date January-01-16** 

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

EB-2014-0068

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

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

#### **APPLICATION**

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

Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

Service Charge	\$	1,655.22
Distribution Volumetric Rate	\$/kW	2.2509
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017	\$/kW	0.6529
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017		
Applicable only for Non-Wholesale Market Participants	\$/kW	(0.5072)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Jan 01, 2017		
Applicable only for Non-RPP Customers	\$/kW	0.7513
Low Voltage Service Rate	\$/kW	0.0784
Rate Rider for Application of Tax Change (2015) – effective untilDec 30, 2016	\$/kW	0.0011
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.7752
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.2117
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

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### 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**

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.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

Service Charge	\$	13,050.75
Distribution Volumetric Rate	\$/kW	2.7938
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017	\$/kW	0.8480
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017		
Applicable only for Non-Wholesale Market Participants	\$/kW	(0.6600)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Jan 01, 2017		
Applicable only for Non-RPP Customers	\$/kW	0.8964
Low Voltage Service Rate	\$/kW	0.0838
Rate Rider for Application of Tax Change (2015) – effective untilDec 30, 2016	\$/kW	0.0009
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.9614
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.3622
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

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# Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

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### UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. The amount of electricity consumed by unmetered connections will be based on detailed information/documentation provided by the device's manufacturer and will be agreed to by Enersource Hydro Mississauga Inc. and the customer and may be subject to periodic monitoring of actual consumption. Eligible unmetered loads include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings. Further servicing details are available in the distributor's Conditions of Service.

#### **APPLICATION**

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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.

Service Charge (per connection)	\$	8.52
Distribution Volumetric Rate	\$/kWh	0.0155
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017	\$/kWh	0.0015
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017		
Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.0011)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Jan 01, 2017		
Applicable only for Non-RPP Customers	\$/kWh	0.0342
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Application of Tax Change (2015) – effective untilDec 30, 2016	\$/kWh	0.0000
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0074
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0058
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

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### STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting. Street Lighting is unmetered where energy consumption is estimated based on the connected wattage and calculated hours of use using methods established by the Ontario Energy Board. 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.

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

Service Charge (per light)	\$	1.43
Distribution Volumetric Rate	\$/kW	10.9294
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017	\$/kW	0.5208
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Jan 01, 2017		
Applicable only for Non-Wholesale Market Participants	\$/kW	(0.4053)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Jan 01, 2017		
Applicable only for Non-RPP Customers	\$/kW	0.5506
Low Voltage Service Rate	\$/kW	0.0580
Rate Rider for Application of Tax Change (2015) – effective untilDec 30, 2016	\$/kW	0.0039
Retail Transmission Rate - Network Service Rate	\$/kW	1.9864
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.6344
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

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# Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

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### STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that requires Enersource Hydro Mississauga to provide distribution service on a standby basis as a back-up supply to an on-site generator. 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.

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#### MONTHLY RATES AND CHARGES - Delivery Component

A Standby Service Charge will be applied for a month where standby power is not provided. The applicable rate is the approved Distribution Volumetric Rate of the applicable service class and is applied to gross metered demand or contracted amount, whichever is greater. A monthly administration charge of \$200, for simple metering arrangements, or \$500, for

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### 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**

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.

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MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$

### **ALLOWANCES**

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.40)
Primary Metering Allowance for transformer losses - applied to measured demand and energy	%	(1.00)

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### SPECIFIC SERVICE CHARGES

#### **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 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.

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#### **Customer Administration**

Arrears certificate	\$	15.00
Request for other billing information	\$	15.00
Credit Reference/credit check (plus credit agency costs)	\$	15.00
Credit reference/credit check (plus credit agency costs - General Service)	\$	25.00
Income Tax Letter	\$	15.00
Returned cheque (plus bank charges)	\$	12.50
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable - Residential)	\$	20.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	10.00
Non-Payment of Account		
Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge - no disconnection	\$	9.00
Disconnect/Reconnect at meter - during regular hours	\$	20.00
Disconnect/Reconnect at pole - during regular hours	\$	185.00
Disconnect/Reconnect at pole - after regular hours	\$	415.00
Other		
Special meter reads	\$	30.00
Interval meter request change	\$	40.00
Temporary service install & remove - overhead - no transformer	\$	400.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	22.35

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# **Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES**

Effective and Implementation Date January-01-16
This schedule supersedes and replaces all previously
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## 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.

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

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	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)	4	(3133)
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)	Š	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	1.0360
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0256
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

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## **Incentive Regulation Model for 2016 Filers**

The bill comparisons below must be provided for typical customers and consumption levels. Bill impacts must be provided for residential customers consuming 800 kWh per month and general service customers consuming 2,000 kWh per month and having a monthly demand of less than 50 kW. Include bill comparisons for non-rpp (retailer) as well.

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

Note: For those classes that are not eligible for the RPP price, the weighted average price including Class B GA through end of May 2015 of \$0.0954/kWh (IESO's Monthly Market Report for May 2015, page 20) has been used to represent the cost of power. For those classes on a retailer contract, applicants should enter the contract price (plus GA) for a more accurate estimate. Changes to the cost of power can be made directly on the bill impact chart for the specific class.

Note: The Ontario Clean Energy Benefit is applicable to eligible customers only. Refer to the Ontario Clean Energy Benefit Act, 2010. Effective until December 31, 2015.

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

#### Table 1

RATE CLASSES / CATEGORIES (eg: Residential TOU, Residential Retailer)	Units	RPP? Non-RPP Retailer? Non-RPP Other?	OCEB Applicable? Prior to Jan 1/16	Current Loss Factor (eg: 1.0351)	Proposed Loss Factor	Consumption (kWh)	Demand kW (if applicable)	RTSR Demand or Demand-Interval?
RESIDENTIAL SERVICE CLASSIFICATION	kWh	RPP	Yes	1.036	1.036			N/A
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	kWh	RPP	Yes	1.036	1.036			N/A
GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION	kW	Non-RPP (Other)	No	1.036	1.036			DEMAND
GENERAL SERVICE 500 TO 4,999 KW SERVICE CLASSIFICATION	kW	Non-RPP (Other)	No	1.036	1.036			DEMAND
LARGE USE SERVICE CLASSIFICATION	kW	Non-RPP (Other)	No	1.0145	1.0145			DEMAND
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	kWh	RPP	Yes	1.036	1.036			N/A
STREET LIGHTING SERVICE CLASSIFICATION	kW	Non-RPP (Other)	No	1.036	1.036			DEMAND
STANDBY POWER SERVICE CLASSIFICATION	kW							DEMAND
Add additional scenarios if required		Non-RPP (Retailer)	Yes	1.036	1.036			
Add additional scenarios if required		Non-RPP (Retailer)	Yes	1.036	1.036			
Add additional scenarios if required		Non-RPP (Retailer)	Yes	1.036	1.036			
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								
Add additional scenarios if required								

#### Table 2

Table 2		Sub-Total Total									
RATE CLASSES / CATEGORIES (eg: Residential TOU, Residential Retailer)	Units	A			B			С		A + B + C	
			\$	%		\$	%	\$	%	\$	%
1 RESIDENTIAL SERVICE CLASSIFICATION - RPP	kWh	\$	-	0.0%	\$	-	0.0%	\$ -	0.0%	\$ -	0.0%
2 GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION - RPP	kWh	\$	-	0.0%	\$	-	0.0%	\$ -	0.0%	\$ -	0.0%
3 GENERAL SERVICE 50 TO 499 KW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	\$	-	0.0%	\$	-	0.0%	\$ -	0.0%	\$ -	0.0%
4 GENERAL SERVICE 500 TO 4,999 KW SERVICE CLASSIFICATION - Non-RPP (Other)	kW	\$	-	0.0%	\$	-	0.0%	\$ -	0.0%	\$ -	0.0%
5 LARGE USE SERVICE CLASSIFICATION - Non-RPP (Other)	kW	\$	-	0.0%	\$	-	0.0%	\$ -	0.0%	\$ -	0.0%
6 UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION - RPP	kWh	\$	-	0.0%	\$	-	0.0%	\$ -	0.0%	\$ -	0.0%
7 STREET LIGHTING SERVICE CLASSIFICATION - Non-RPP (Other)	kW	\$	-	0.0%	\$	-	0.0%	\$ -	0.0%	\$ -	0.0%
8 STANDBY POWER SERVICE CLASSIFICATION -	kW	\$	-	0.0%	\$	-	0.0%	\$ -	0.0%	\$ -	0.0%
9											1
10											1
11											
12											1
13											
14											1
15											
16											
17											1
18											
19											1
20											1

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2185 Derry Road W. Mississauga, Ontario L5N 7A6

Tel: (905) 273-9050 Fax (905) 566-2737

## **CERTIFICATION**

I hereby certify that the information filed within this application is consistent with the Board's accounting requirements and procedures in the Accounting Procedures Handbook and any other accounting procedures the Board may approve from time to time.

Peter Gregg 6

President & Chief Executive Officer Enersource Hydro Mississauga Inc.

#### Enersource Hydro Mississauga EB-2015-0065 GEA Renewable Connections Calculation of Renewable Generation Connection Provincial Amount

													A			
	2010	ACTU	AL	2011	ACTU	AL	2012	CTUAL	2013 A	CTUAL	2014 A	CTUAL	2015 E	STIMATE	2010A to	2015E Total
Net Fixed Assets (2 year average)		\$	11,110		\$	64,140		\$183,723		\$332,417		\$456,550		\$559,456		\$559,456
OM&A	\$ -			\$ -			\$ -		\$ 23,800		\$ 23,439		\$ 25,000		\$ 25,000	
WCA	13.3%	\$	-	13.3%	\$	-	13.3%	\$ -	13.5%	\$ 3,213	13.5%	\$ 3,164	13.5%	\$ 3,375	13.5%	\$ 3,375
Rate Base		\$	11,110		\$	64,140		\$183,723		\$335,630		\$459,715		\$562,831		\$562,831
Deemed ST Debt	4%	\$	444	4%	\$	2,566	4%	\$ 7,349	4%	\$ 13,425	4%	\$ 18,389	4%	\$ 22,513		\$ 64,686
Deemed LT Debt	56%	\$	6,222	56%	\$	35,918	56%	\$102,885	56%	\$187,953	56%	\$257,440	56%	\$315,185		\$905,604
Deemed Equity	40%	\$	4,444	40%	\$	25,656	40%	\$ 73,489	40%	\$134,252	40%	\$183,886	40%	\$225,132		\$646,860
ST Interest	4.47%	\$	20	4.47%	\$	115	4.47%	\$ 328	2.08%	\$ 279	2.08%	\$ 382	2.08%	\$ 468		\$ 1,593
LT Interest	6.44%	\$	401	6.44%	\$	2,313	6.44%	\$ 6,626	5.09%	\$ 9,567	5.09%	\$ 13,104	5.09%	\$ 16,043		\$ 48,053
ROE	8.57%	\$	381	8.57%	\$	2,199	8.57%	\$ 6,298	8.93%	\$ 11,989	8.93%	\$ 16,421	8.93%	\$ 20,104		\$ 57,392
		\$	801		\$	4,627		\$ 13,252		\$ 21,835		\$ 29,907		\$ 36,616		\$107,038
OM&A		\$	-		\$	-		\$ -		\$ 23,800		\$ 23,439		\$ 25,000		\$ 72,239
Amortization		\$	766		\$	4,476		\$ 13,032		\$ 24,186		\$ 34,414		\$ 43,884		\$120,759
Grossed-up PILs		-\$	586		-\$	2,334		-\$ 2,081		\$ 1,118		\$ 4,527		\$ 7,049		\$ 7,692
Revenue Requirement		\$	981		\$	6,768		\$ 24,204		\$ 70,938		\$ 92,287		\$112,549		\$307,728

Direct Benefit	2010	2011	2012	2013 ACTUAL	2014 ACTUAL	2015 ESTIMATE	2010A to 2015E Total
OM&A	\$ -	\$ -	\$ -	\$ 23,800	\$ 23,439	\$ 25,000	\$ 25,000
Capital	\$ 98	\$ 6,768	\$ 24,204	\$ 47,138	\$ 68,848	\$ 87,549	\$282,728
Direct Benefit % on capital	6.00	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%
Direct Benefit on capital	\$ 5	\$ 406	\$ 1,452	\$ 2,828	\$ 4,131	\$ 5,253	\$ 16,964
Total GEA Recovery	\$ 5	\$ 406	\$ 1,452	\$ 26,628	\$ 27,570	\$ 30,253	\$ 41,964
Total # of Customers (excl connections	s) 192,96	195,382	197,940	200,066	201,549	203,706	203,706
GEA Rate Adder	\$ 0.0	\$ 0.00	\$ 0.00	\$ 0.01	\$ 0.01	\$ 0.01	\$ 0.017
Provincial Rate Protection	\$ 92	\$ 6,362	\$ 22,751	\$ 44,310	\$ 64,717	\$ 82,296	\$265,764
Monthly Adder Amount Paid by IESO	\$ 7	\$ 530	\$ 1,896	\$ 3,693	\$ 5,393	\$ 6,858	\$ 22,147

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#### Enersource Hydro Mississauga EB-2015-0065 GEA Renewable Connections Calculation of Renewable Generatio

	cos	2014 Price Cap	2015 Price Cap				
	В	С	D	E = A - B - C - D	E	F = D + E	
	EB-2012-0033	EB-2013-0124	EB-2014-0068	True-Up Variance	2016 FORECAST	2016 Incl. True-up	
Net Fixed Assets (2 year average)	\$318,202	\$ 464,760	\$ 412,690	\$ 146,766	\$ 659,840	\$ 806,606	
OM&A	\$ -	\$ 7,000	\$ 23,000	\$ 2,000	\$ 25,000	\$ 27,000	
WCA	13.5% \$ -	13.5% <u>\$</u> 945	13.5% \$ 3,105	13.5% \$ 270	13.5% <u>\$</u> 3,375	13.5% \$ 3,645	
Rate Base	\$318,202	\$ 464,760	\$ 412,690	\$ 147,036	\$ 663,215	\$ 810,251	
Deemed ST Debt	\$ 22,553		\$ 17,345	\$ 5,642	4% \$ 26,529	\$ 32,170	
Deemed LT Debt	\$315,740	\$ 268,047	\$ 242,832	\$ 78,986	56% \$ 371,401	\$ 450,386	
Deemed Equity	\$225,528	\$ 191,462	\$ 173,451	\$ 56,418	40% \$ 265,286	\$ 321,704	
ST Interest	\$ 704	\$ 411	\$ 361	\$ 117	2.08% \$ 552	\$ 669	
LT Interest	\$ 17,928	\$ 13,745	\$ 12,360	\$ 4,020	5.09% \$ 18,904	\$ 22,925	
ROE	\$ 19,786	<u>\$ 17,078</u>	<u>\$ 15,489</u>	\$ 5,038	8.93% <u>\$ 23,690</u>	\$ 28,728	
	\$ 38,418	\$ 31,234	\$ 28,210	\$ 9,176	\$ 43,146	\$ 52,322	
OM&A	\$ -	\$ 7,000	\$ 46,800	\$ 18,439	\$ 25,000	\$ 43,439	
Amortization	\$ 37,215	\$ 39,210	\$ 46,921	-\$ 2,588	\$ 53,834	\$ 51,246	
Grossed-up PILs	-\$ 7,261	\$ 2,577	\$ 13,137	-\$ 761	\$ 8,906	\$ 8,145	
Revenue Requirement	\$ 68,373	\$ 80,021	\$ 135,068	\$ 24,267	\$ 130,886	\$ 155,153	

Direct Benefit	EB-2012-0033	EB-2013-0124	EB-2014-0068	True-Up Variance	2016 FORECAST	2016 Incl. True-up
OM&A	\$ -	\$ 7,000	\$ 46,800	-\$ 28,800	\$ 25,000	\$ 43,439
Capital	\$ 68,373	\$ 73,021	\$ 88,268	\$ 53,066	\$ 105,886	\$ 111,713
Direct Benefit % on capital	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%
Direct Benefit on capital	\$ 4,102	\$ 4,381	\$ 5,296	\$ 3,184	\$ 6,353	\$ 6,703
Total GEA Recovery	\$ 4,102	\$ 11,381	\$ 52,096	-\$ 25,616	\$ 31,353	\$ 50,142
Total # of Customers (excl connections	199,187	199,187	204,493	203,706	206,075	206,075
GEA Rate Adder	\$ 0.002	\$ 0.005	\$ 0.021	\$ (0.010)	\$ 0.013	\$ 0.020
Provincial Rate Protection	\$ 64,270	\$ 68,640	\$ 82,972	\$ 49,882	\$ 99,533	\$ 105,010
Monthly Adder Amount Paid by IESO	\$ 5,356	\$ 5,720	\$ 6,914	\$ 4,157	\$ 8,294	\$ 8,751

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#### **Green Energy Fixed Asset Continuity Schedule**

Green Energy Fixed Asset Continu	.,	COST		ACCUI	MULATED DEPREC	IATION		NBV	
	Opening	Additions	Closing	Opening	Additions	Closing	Opening	Additions	Closing
2010 (CGAAP)									
Green Energy - FIT/Micro	-	22,986.94	22,986.94	-	(766.23)	(766.23)	-	22,220.71	22,220.71
CIP - Green Energy - FIT/Micro	-	38,138.46	38,138.46	-	-	-	-	38,138.46	38,138.46
CIP AFUDC Green Energy	(0.00)	171.17	171.17	-	-	-	(0.00)	171.17	171.17
TOTAL	(0.00)	61,296.57	61,296.57	0.00	-766.23	-766.23	-0.00	60,530.34	60,530.34
		COST		A	CCUM DEPRECIATION	ON		NBV	
	Opening	Additions	Closing	Opening	Additions	Closing	Opening	Additions	Closing
2011 Actual									
Green Energy - FIT/Micro	22,986.94	88,314.49	111,301.43	(766.23)	(4,476.28)	(5,242.51)	22,220.71	83,838.21	106,058.92
IFRS adjustment	(766.23)		(766.23)	766.23		766.23	-	-	-
CIP - Green Energy - FIT/Micro	38,138.46	109,236.68	147,375.14	-	-	-	38,138.46	109,236.68	147,375.14
CIP AFUDC Green Energy	171.17	(138.14)	33.03	-	-	-	171.17	(138.14)	33.03
TOTAL	60,530.34	197,413.03	257,943.37	-	(4,476.28)	(4,476.28)	60,530.34	192,936.75	253,467.09
		COST		A	CCUM DEPRECIATION	ON		NBV	
	Opening	Additions	Closing	Opening	Additions	Closing	Opening	Additions	Closing
2012 Actual									
Green Energy - FIT/Micro	110,535.20	173,210.96	283,746.16	(4,476.28)	(13,193.79)	(17,670.07)	106,058.92	160,017.17	266,076.09
CIP - Green Energy - FIT/Micro	147,375.14	36,781.00	184,156.14	-		-	147,375.14	36,781.00	184,156.14
CIP AFUDC Green Energy	33.03	(33.03)	(0.00)	-		-	33.03	(33.03)	(0.00)
Def Rev -FIT MicroFIT	-	(4,850.00)	(4,850.00)	-	161.67	161.67	-	(4,688.33)	(4,688.33)
CIP Def Rev -FIT MicroFIT	-	(64,880.00)	(64,880.00)	-		-	-	(64,880.00)	(64,880.00)
TOTAL	257,943.37	140,228.93	398,172.30	(4,476.28)	(13,032.12)	(17,508.40)	253,467.09	127,196.81	380,663.90
		COST		Δι	CCUM DEPRECIATION	ON		NBV	
	Opening	YTD Additions	Closing	Opening	YTD Additions	Closing	Opening	YTD Additions	Closing
2013 Actual									
Green Energy - FIT/Micro	283,746.16	241,194.34	524,940.50	(17,670.07)	(27,007.30)	(44,677.37)	266,076.09	214,187.04	480,263.13
CIP - Green Energy - FIT/Micro	184,156.14	24,029.68	208,185.82	-	, , ,	· · · · ·	184,156.14	24,029.68	208,185.82
CIP AFUDC Green Energy	(0.00)	61.17	61.17	-		-	(0.00)	61.17	61.17
Def Rev -FIT MicroFIT	(4,850.00)	(74,950.00)	(79,800.00)	161.67	2,821.66	2,983.33	(4,688.33)	(72,128.34)	(76,816.67)
CIP Def Rev -FIT MicroFIT	(64,880.00)	(81,057.10)	(145,937.10)	-	•	· =	(64,880.00)	(81,057.10)	(145,937.10)
TOTAL	398,172.30	109,278.09	507,450.39	(17,508.40)	(24,185.64)	(41,694.04)	380,663.90	85,092.45	465,756.35
		COST		4.00111	ALU ATED DEDDEC	IATION		ND.	
	Opening	COST YTD Additions	Closing	Opening	MULATED DEPREC	Closing	Opening	NBV YTD Additions	Closing
2014 Actual									
Green Energy - FIT/Micro	524,940.50	274,892.00	799,832.50	(44,677.37)	(44,210.00)	(88,887.37)	480,263.13	230,682.00	710,945.13
CIP - Green Energy - FIT/Micro	208,185.82	43,892.00	252,077.82	(1.721.7.37)	, ,	-	208,185.82	43,892.00	252,077.82
CIP AFUDC Green Energy	61.17	63.00	124.17	-		_	61.17	63.00	124.17
		22.00					32127	22.30	,

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Def Rev -FIT MicroFIT	(79,800.00)	(134,270.00)	(214,070.00)	2,9	83.33	9,796.00	12,779.33	(76,816.67)	(124,474.00)	(201,290.67)
CIP Def Rev -FIT MicroFIT	(145,937.10)	(97,552.00)	(243,489.10)		-		-	(145,937.10)	(97,552.00)	(243,489.10)
TOTAL	507,450.39	87,025.00	594,475.39	(41,6	94.04)	(34,414.00)	(76,108.04)	465,756.35	52,611.00	518,367.35
		COST			AC	CUM DEPRECIATIO	ON		NBV	
	Opening	Additions	Closing	Openi	ng	Additions	Closing	Opening	Additions	Closing
2015 Forecast				<u></u>						
Green Energy - FIT/Micro	799,832.50	210,000.00	1,009,832.50	(88,8	87.37)	(60,373.07)	(149,260.44)	710,945.13	149,626.93	860,572.06
CIP - Green Energy - FIT/Micro	252,077.82	-	252,077.82		-	-	-	252,077.82	-	252,077.82
CIP AFUDC Green Energy	124.17	-	124.17		-	-	-	124.17	-	124.17
Def Rev -FIT MicroFIT	(214,070.00)	(66,513.00)	(280,583.00)	12,7	79.33	16,488.77	29,268.10	(201,290.67)	(50,024.23)	(251,314.90)
CIP Def Rev -FIT MicroFIT	(243,489.10)	-	(243,489.10)		-	-	-	(243,489.10)	-	(243,489.10)
TOTAL	594,475.39	143,487.00	737,962.39	(76,1	08.04)	(43,884.30)	(119,992.34)	518,367.35	99,602.70	617,970.05
		COST			AC	CUM DEPRECIATIO	DN		NBV	
	Opening	Additions	Closing	Openi	ng	Additions	Closing	Opening	Additions	Closing
2016 Forecast										
Green Energy - FIT/Micro	1,009,832.50	155,000.00	1,164,832.50	(149,2	60.44)	(72,539.73)	(221,800.17)	860,572.06	82,460.27	943,032.33
CIP - Green Energy - FIT/Micro	252,077.82	-	252,077.82		-	-	-	252,077.82	-	252,077.82
CIP AFUDC Green Energy	124.17	-	124.17		-	-	-	124.17	-	124.17
Def Rev -FIT MicroFIT	(280,583.00)	-	(280,583.00)	29,2	68.10	18,705.87	47,973.96	(251,314.90)	18,705.87	(232,609.04)
CIP Def Rev -FIT MicroFIT	(243,489.10)	-	(243,489.10)		-	-	-	(243,489.10)	-	(243,489.10)
TOTAL	737,962.39	155,000.00	892,962.39	(119,9	92.34)	(53,833.87)	(173,826.21)	617,970.05	101,166.13	719,136.18

	2010	2011	2012	2013	2014	2015	2016	Total
Net Capital Expenditures	61,296.57	197,413.03	140,228.93	109,278.09	87,025.00	143,487.00	155,000.00	893,728.62
Depreciation Expense	-766.23	-4,476.28	-13,032.12	-24,185.64	-34,414.00	-43,884.30	-53,833.87	-174,592.44

			2011 IFRS					
	2010	2011	Adjustment	2012	2013	2014	2015	2016
Cummulative Cost including CIP	61,297	258,710	-766	398,172	507,450	594,475	737,962	892,962
Less Cummulative CIP	-38,310	-147,408	0	-119,276	-62,310	-8,713	-8,713	-8,713
Cummulative Accumulated Deprecia	-766	-5,243	766	-17,508	-41,694	-76,108	-119,992	-173,826

Average 2010	Average 2011
30,648	159,620
-19,155	-92,859
-383	-2,621
11,110	64,140

Average 2012	Average 2013	Average 2014	Average 2015	Average 2016		
328,058	452,811	550,963	666,219	815,462		
-133,342	-90,793	-35,511	-8,713	-8,713		
-10,992	-29,601	-58,901	-98,050	-146,909		
183,723	332,417	456,550	559,456	659,840		

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#### **CCA Calculation**

		2010	2011	2012	2013	2014	2015	2016
Opening UCC		\$ -	\$ 58,845	\$ 243,654	\$ 358,781 \$	434,986	\$ 483,731	\$ 582,780
Capital Additions		\$ 61,297	\$ 197,413	\$ 140,229	\$ 109,278 \$	87,025	\$ 143,487	\$ 155,000
UCC Before Half Year Rule		\$ 61,297	\$ 256,258	\$ 383,883	\$ 468,059 \$	522,011	\$ 627,218	\$ 737,780
Half Year Rule (1/2 Additions - Disposals)		\$ 30,648	\$ 98,707	\$ 70,114	\$ 54,639 \$	43,513	\$ 71,744	\$ 77,500
Reduced UCC		\$ 30,648	\$ 157,551	\$ 313,768	\$ 413,420 \$	478,498	\$ 555,474	\$ 660,280
CCA Rate Class	47	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%	8%
CCA		\$ 2,452	\$ 12,604	\$ 25,101	\$ 33,074 \$	38,280	\$ 44,438	\$ 52,822
Closing UCC		\$ 58,845	\$ 243,654	\$ 358,781	\$ 434,986 \$	483,731	\$ 582,780	\$ 684,957

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#### **PILs Calculation**

		2010	2011	2012	2013	2014	2015	2016
INCOME TAX								
Net Income	\$	381 \$	2,199 \$	6,298 \$	11,989 \$	16,421 \$	20,104 \$	23,690
Amortization	\$	766 \$	4,476 \$	13,032 \$	24,186 \$	34,414 \$	43,884 \$	53,834
CCA	-\$	2,452 -\$	12,604 -\$	25,101 -\$	33,074 -\$	38,280 -\$	44,438 -\$	52,822
Change in taxable income	-\$	1,305 -\$	5,929 -\$	5,771 \$	3,101 \$	12,555 \$	19,551 \$	24,702
Tax Rate		31.00%	28.25%	26.50%	26.50%	26.50%	26.50%	26.50%
Income Taxes Payable	-\$	404 -\$	1,675 -\$	1,529 \$	822 \$	3,327 \$	5,181 \$	6,546

#### Gross Up

	PIL	s Payable	PILs Payable	P	ILs Payable	PILs Payable	PILs Payable	l	PILs Payable	P	ILs Payable
Change in Income Taxes Payable	-\$	404 -\$	1,675	-\$	1,529	\$ 822	\$ 3,327	\$	5,181	\$	6,546
Change in OCT	\$	- \$	-	\$	-	\$ -	\$ -	\$	-	\$	
PIL's	-\$	404 -\$	1,675	-\$	1,529	\$ 822	\$ 3,327	\$	5,181	\$	6,546

	2	2010	2011		2012	2013		2014	2015		2016
	Grosse	ed Up PILs	Grossed Up PIL	Gro	ossed Up PILs	Grossed Up PII	.S	Grossed Up PILs	Grossed Up PIL	s (	Grossed Up PILs
Change in Income Taxes Payable	-\$	586	-\$ 2,33	4 -\$	2,081	\$ 1,1	18	\$ 4,527	\$ 7,049	9 \$	8,906
Change in OCT	\$	-	\$ -	\$	-	\$ -		\$ -	\$ -	\$	-
PIL's	-\$	586	-\$ 2,33	4 -\$	2,081	\$ 1,1	18	\$ 4,527	\$ 7,049	9 \$	8,906



Rate Class
RESIDENTIAL
GENERAL SERVICE LESS THAN 50 KW
GENERAL SERVICE 50 TO 499 KW
GENERAL SERVICE 500 TO 4,999 KW
LARGE USE > 5000 KW
UNMETERED SCATTERED LOAD
STREET LIGHTING
STANDBY DISTRIBUTION SERVICE
microEff

			Participants (WMP)	Participants (WMP)	consumption (if applicable)	consumption (if applicable)	Customers (if applicable) <sup>4</sup>	Customers (if applicable)	Class A, Non-WMP Customers (if applicable)	RPP Customers LESS Class A Consumption	RPP Customers LESS Class A Demand	Share Proportion (2008) 1	Share Proportion (2009) 1	Share Proportion (2010) 1	Share Proportion (2011) 1	Share Proportion (2012) 1	Share Proportion (2013) 1	Share Proportion (2014) 1	Account Class Allocation (\$ amounts)	Customers for Residential and GS<50 classes <sup>3</sup>
	91,130,679	0			1,469,096,847	0				91,130,679	0								0	179,407
	107,176,499	0			647,112,058	0				107,176,499	0								0	17,872
6,035,821	1,752,950,268	5,050,207	307,920	12,796	2,103,852,335	6,023,025				1,752,950,268	5,050,207								0	
4,709,432	1,904,049,777	4,321,176	17,469,875	31,090	2,069,566,375	4,678,342				1,904,049,777	4,321,176								0	
1,741,185	1,002,165,609	1,741,185			1,002,165,609	1,741,185		920,433,360	1,579,942	81,732,248	161,243								0	
	523,144	0			11,501,822	0				523,144	0								0	
90,306	31,923,315	90,306			31,923,315	90,306				31,923,315	90,306								0	
		0								0	0									
	1,741,185	1,741,185 1,002,165,609 523,144	1,741,185 1,002,165,609 1,741,185 523,144 0	1,741,185 1,002,165,609 1,741,185 523,144 0	1,741,185 1,002,165,609 1,741,185 523,144 0	1,741,185 1,002,165,609 1,741,185 1,002,165,609 523,144 0 11,501,822	1,741,185 1,002,165,609 1,741,185 1,002,165,609 1,741,185 523,144 0 11,501,822 0	1,741,185 1,002,165,609 1,741,185 1,002,165,609 1,741,185 523,144 0 11,501,822 0	1,741,185 1,002,165,609 1,741,185 1,002,165,609 1,741,185 920,433,360 523,144 0 11,501,822 0	1,741,185     1,002,165,609     1,741,185     1,002,165,609     1,741,185     920,433,360     1,579,942       523,144     0     11,501,822     0	1,741,185     1,002,165,609     1,741,185     1,002,165,609     1,741,185     920,433,360     1,579,942     81,732,248       523,144     0     11,501,822     0     523,144	1,741,185         1,002,165,609         1,741,185         1,002,165,609         1,741,185         920,433,360         1,579,942         81,732,248         161,243           523,144         0         11,501,822         0         523,144         0	1.741.185 1.002.165.090 1.741.185 1.002.165.090 1.741.185 920.483.360 1.579.942 81.732.248 161.243 920.483.360 0 11.501.322 0 920.483.360 1.579.942 81.732.248 161.243	1.741.15 1.001.165.09 1.741.15 1.002.165.09 1.741.15 920.413.00 1.779.942 81.732.248 161.241 0 11.501.322 0 12.321.44 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.741.185 1.002.165.690 1.741.185 1.002.165.690 1.741.185 920.433.360 1.579.942 81.732.248 161.241 1.579.942 81.241 1.579.942 81.732.248 161.241 1.579.942 81.732.248 161.241 1.579.942 81.732.248 161.241 1.579.942 81.732.248 161.241 1.579.942 81.732.248 161.241 1.579.942 81.241	1,741,185 1,002,165,699 1,741,185 1,002,165,699 1,741,185 926,813,860 1,579,942 161,742,248 161,243 16	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1,741,185 1,002,165,699 1,741,185 10,02,165,699 1,741,185 920,481,940 1,579,942 931,44 0 11,003,165,09 1,741,185 920,481,940 1,579,942 931,344 0 9 13,031,44	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

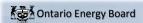
Threshold Test Total Claim (including Account 1568) Total Claim for Threshold Test (All Group 1 Accounts)	\$10,715,155
	\$10,634,439
Threshold Test (Total claim per kWh) 2	0.001446
	YES

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment G Page 2 of 18

#### Enersource Hydro Mississauga Inc. EB-2015-0065 Incentive Regulation Model for 2016 Filers Allocation of Deferral/Variance Accounts

		Total Motored	% of Total	Billed kWh for Non-	% of Total	% of Customor	Total Metered kWh less WMP	% of Total kWh							1595 (2010)	1595 (2010)	1595 (2011)	1595 (2011)	1595 (2012)	1595 (2012)	
TABLE 1 - Allocation of Deferral/Variance Excluding GA		kWh	kWh	RPP Customers	non-RPP	Numbers **	consumption	adjusted for	1550	1,551	1580	1584	1586	1588	Excluding GA	GA	Excluding GA	GA	Excluding GA	GA	Total
	Unit	KVIII	KVVII	KFF Customers	kWh	Numbers	consumption	WMP 5	1,793,596 \$	(71,198) \$	(6,007,367) \$	5,996,100 \$	3,043,874 \$	(2,403,572)	\$ (801,352) \$	(1,991,335)	\$ (118,767)	\$ 116,218	\$ 436,207 \$	(782,239) \$	(789,836)
RESIDENTIAL	\$/kWh	1,469,096,847	20.0%	91,130,679	1.9%	90.9%	1,469,096,847	20.0%	358,353	(64,748)	(1,203,155)	1,197,995	608,153	(481,387)	(166,311)	(84,617)	(4,520)	4,155	84,376	(102,489)	145,803
GENERAL SERVICE LESS THAN 50 KW	\$/kWh	647,112,058	8.8%	107,176,499	2.2%	9.1%	647,112,058	8.8%	157,848	(6,450)	(529,969)	527,696	267,881	(212,043)	(69,505)	(48,200)	(7,507)	2,513	36,624	(82,779)	36,111
GENERAL SERVICE 50 TO 499 KW	\$/kW	2,104,160,255	28.6%	1,752,950,268	35.8%	0.0%	2,103,852,335	28.7%	513,262	0	(1,723,004)	1,715,866	871,046	(689,381)	(221,999)	(673,008)	(40,153)	39,786	124,641	(1,079,949)	(1,162,892)
GENERAL SERVICE 500 TO 4,999 KW	\$/kW	2,087,036,250	28.4%	1,904,049,777	38.9%	0.0%	2,069,566,375	28.2%	509,085	0	(1,694,925)	1,701,902	863,957	(678,146)	(227,712)	(773,030)	(47,147)	46,381	130,274	396,684	227,323
LARGE USE	\$/kW	1,002,165,609	13.6%	1,002,165,609	20.5%	0.0%	1,002,165,609	13.7%	244,455	0	(820,750)	817,229	414,860	(328,385)	(110,436)	(397,067)	(23,763)	22,461	58,084	67,946	(55,365)
UNMETERED SCATTERED LOAD	\$/kWh	11,501,822	0.2%	523,144	0.0%	0.0%	11,501,822	0.2%	2,806	0	(9,420)	9,379	4,761	(3,769)	(1,272)	(187)	264	9	621	(266)	2,927
STREET LIGHTING	\$/kW	31,923,315	0.4%	31,923,315	0.7%	0.0%	31,923,315	0.4%	7,787	0	(26,144)	26,032	13,215	(10,460)	(4,117)	(15,226)	4,059	912	1,586	18,614	16,258
Total		7,352,996,155	100.0%	4,889,919,291	100.0%	100.0%	7,335,218,360	100.0%	1,793,596 \$	(71,198) \$	(6,007,367) \$	5,996,100 \$	3,043,874 \$	(2,403,572)	\$ (801,352) \$	(1,991,335)	\$ (118,767)	\$ 116,218	\$ 436,207 \$	(782,239) \$	(789,836)

Total	7,352,996,155	100.0%	4,889,919,291	100.0%	100.0%
			-		-
TABLE 2 - Allocation of Account 1595 (2010)	1595 (Excl. GA) Share Proportio			1595 (GA) Rec Proportio	
TABLE 2 - Allocation of Account 2555 (2020)		\$ (801,352)	l.	s	(1.991.335)
ESIDENTIAL	20.8%	(166,311)		4.2%	(84,617)
ENERAL SERVICE LESS THAN 50 KW	8.7%	(69,505)		2.4%	(48,200)
JNMETERED SCATTERED LOAD	0.2%	(1,272)		0.0%	(187)
SENERAL SERVICE 50 TO 499 KW	27.7%	(221,999)		33.8%	(673,008
SENERAL SERVICE 500 TO 4,999 KW	28.4%	(227,712)		38.8%	(773,030)
ARGE USE	13.8%	(110,436)		19.9%	(397,067
TREET LIGHTING	0.5%	(4,117)		0.8%	(15,226)
Total	100.00%	\$ (801,352)		100.00% \$	(1,991,335)
	1595 (Excl. GA)	Recovery		1595 (GA) Rec	overy Share
FABLE 2 - Allocation of Account 1595 (2011)	Share Proportio			Proportio	
ABLE 2 - Allocation of Account 1595 (2011)		\$ (118,767)		s s	
ESIDENTIAL	3.8%	(4,520)		3.6%	4.155
ENERAL SERVICE LESS THAN 50 KW	6.3%	(7,507)		2.2%	2,513
NMETERED SCATTERED LOAD	-0.2%	264		0.0%	2,32
ENERAL SERVICE 50 TO 499 KW	33.8%	(40.153)		34.2%	39.786
SENERAL SERVICE 500 TO 4,999 KW	39.7%	(47,147)		39.9%	46,381
		(23,763)		19.3%	22,461
ARGE USE	20.0%				912
ARGE USE	20.0%	4,059		0.8%	
ARGE USE TREET LIGHTING	-3.4%			0.8% 100.00% \$	
ARGE USE TREET LIGHTING	-3.4%	4,059			
ARGE USE TREET LIGHTING otal	-3.4% 100.00%	4,059 \$ (118,767)		100.00% \$	116,218 covery Share
GE USE EET LIGHTING Tal	-3.4% 100.00% 1595 (Excl. GA) Share Proportio	4,059 \$ (118,767) Recovery on (2012)		100.00% \$ 1595 (GA) Rec Proportio	116,218 covery Share n (2012)
NACE USE TREET UGHTING otal  ABLE 2 - Allocation of Account 1595 (2012)	-3.4% 100.00% 1595 (Excl. GA) Share Proportion	4,059 \$ (118,767) Recovery on (2012) \$ 436,207		100.00% \$ 1595 (GA) Rec Proportio	116,218 covery Share n (2012) (782,239
RAGE USE TREET LIGHTING Otal  ABLE 2 - Allocation of Account 1595 (2012)	-3.4% 100.00% 1595 (Excl. GA) Share Proportic	4,059 \$ (118,767) Recovery on (2012) \$ 436,207 84,376		100.00% \$ 1595 (GA) Rec Proportio \$ 13.1%	116,218 covery Share n (2012) i (782,239 (102,489
NICE USE  TREET UIGHTING  OTAL  ABLE 2 - Allocation of Account 1595 (2012)  ESDENTIAL  FERRAL SERVICE LESS THAN 50 NW	-3.4% 100.00% 1595 (Excl. GA) Share Proportic	4,059 \$ (118,767) Recovery on (2012) \$ 436,207 84,376 36,624		100.00% \$ 1595 (GA) Rec Proportio \$ 13.1% 10.6%	tovery Share on (2012) (782,239 (102,489 (82,779
ARGE USE TREET LIGHTING Total  ABLE 2 - Allocation of Account 1595 (2012)  ESIDENTIAL ENERAL SERVICE LESS THAN 50 KW NAMETERD SCACTTERED LOAD	-3.4% 100.00% 1595 (Excl. GA) Share Proportio 19.3% 8.4% 0.1%	4,059 \$ (118,767) Recovery on (2012) \$ 436,207 84,376 36,624 621		100.00% \$ 1595 (GA) Rec Proportio \$ 13.1% 10.6% 0.0%	116,218 covery Share n (2012) (782,239 (102,489 (82,779 (266
ARGE USE TREET LIGHTING Total  TABLE 2 - Allocation of Account 1595 (2012)  ESIDENTIAL  ES	-3.4% 100.00% 1595 (Excl. GA) Share Proportis 19.3% 8.4% 0.1% 28.6%	4,059 \$ (118,767) Recovery on (2012) \$ 436,207 84,376 36,624 621 124,641		100.00% \$ 1595 (GA) Rec Proportio \$ 13.1%  0.0% 138.1%	covery Share n (2012) i (782,239) (102,489 (82,779 (266) (1,079,949
ARGE USE TREET LIGHTING Total  TABLE 2 - Allocation of Account 1595 (2012)  RESIDENTIAL RESIDENTIAL RESIDENTIAL RESIDENTIAL SERVICE LESS THAN 50 KW NAMETERED SCATTERED LOAD REMEAL SERVICE 50 TO 4.999 KW EMPRIAL SERVICE 50 TO 4.999 KW	13.4% 100.00% 1595 (Excl. GA) Share Proportis 19.3% 8.4% 0.1% 28.6% 29.9%	4,059 \$ (118,767) Recovery on (2012) \$ 436,207 84,376 624 621 124,641 130,274	ļ	100.00% \$  1595 (GA) Rec Proportio  \$ 13.1% 10.6% 0.0% 138.1% -50.7%	116,218  covery Share n (2012) i (782,239) (102,489) (82,779) (266) (1,079,949) 396,684
ARGE USE TREET TUCHTING TOTal  TRABLE 2 - Allocation of Account 1595 (2012)  RESIDENTIAL  RESPORTANCE REPRIED SCATTERED LOAD EMERAL SERVICE LESS THAN 50 KW INMETERED SCATTERED LOAD EMERAL SERVICE DE 50 T499 KW	-3.4% 100.00% 1595 (Excl. GA) Share Proportis 19.3% 8.4% 0.1% 28.6%	4,059 \$ (118,767) Recovery on (2012) \$ 436,207 84,376 36,624 621 124,641		100.00% \$ 1595 (GA) Rec Proportio \$ 13.1%  0.0% 138.1%	116,218 covery Share n (2012)



#### **Incentive Regulation Model for 2016 Filers**

#### Enersource Hydro Mississauga - Mississauga

Input required at cell C15 only. This workshseet calculates rate riders related to the Deferral/Variance Account Disposition (if applicable), associated rate riders for the global adjustment account (1589) and Account 1568. Rate Riders will not be generated for the microFIT class.

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

12
12

				Total Metered	Total Metered		Allocation of Group 1 Account Balances to		Deferral/Variance Account Rate Rider	Balance in Account 1595	Estimated kW	Metered kWh or kW for Class A Customers and	kWh or kW Less Class A	1595 Global Adjustment
Rate Class	Unit	Total Metered kWh	metered kw or kVA	kWh less WMP consumption	consumption	Account Balances to All Classes	Non-WMP Classes Only (If Applicable)	Deferral/Variance Account Rate Rider	for Non-WMP (if applicable)	GA	Customers	WMP	and WMP	Rate Rider
RESIDENTIAL	\$/kWh	1,469,096,847	0	1,469,096,847		2,013,296	(1,684,542)	0.0014	(0.0011)	(182,951)	91,130,679		91,130,679	(0.0020)
GENERAL SERVICE LESS THAN 50 KW	\$/kWh	647,112,058	0	647,112,058		906,588	(742,012)	0.0014	(0.0011)	(128,465)	107,176,499		107,176,499	(0.0012)
GENERAL SERVICE 50 TO 499 KW	\$/kW	2,104,160,255	6,035,821	2,103,852,335	6,023,025	2,962,664	(2,412,385)	0.4908	(0.4005)	(1,713,170)	5,050,207	12,796	5,037,411	(0.3401)
GENERAL SERVICE 500 TO 4,999 KW	\$/kW	2,087,036,250	4,709,432	2,069,566,375	4,678,342	2,930,360	(2,373,071)	0.6222	(0.5072)	(329,965)	4,321,176	31,090	4,290,086	(0.0769)
LARGE USE > 5000 KW	\$/kW	1,002,165,609	1,741,185	1,002,165,609	1,741,185	1,400,430	(1,149,135)	0.8043	(0.6600)	(306,660)	1,741,185	1,579,942	161,243	(0.1761)
UNMETERED SCATTERED LOAD	\$/kWh	11,501,822	0	11,501,822		16,560	(13,189)	0.0014	(0.0011)	(445)	523,144		523,144	(0.0008)
STREET LIGHTING	\$/kW	31,923,315	90,306	31,923,315	90,306	48,563	(36,605)	0.5378	(0.4053)	4,300	90,306		90,306	0.0476
STANDBY DISTRIBUTION SERVICE	\$/kW													
microFIT														
Total		7,352,996,155	12,576,744	7,335,218,360	12,532,858	10,278,460	(8,410,939)			(2,657,356)	210,033,196	1,623,828	208,409,368	

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#### Enersource Hydro Mississauga Inc EB - 2015-0065 Appendix 1 Global Adjustment - Variance Account 1589 Breakdown between Interval and Non-Interval Customers

	Table 1 - Variance Allocation Between Interval & Non-Interval												
	Global Adjustment Billing					Total Variance							
Meter Type	Methodology	Revenue	Cost	Subtotal	Interest	Claim							
Interval	2013 - (2nd Estimate)	(113,105,827)	113,739,517	633,690	23,259	656,950							
Non-Interval	2013 - (1st Estimate)	(133,568,329)	136,096,057	2,527,728	92,778	2,620,506							
Interval & Non Interval	2014 - (1st Estimate)	(246,552,829)	254,552,256	7,999,427	147,391	8,146,818							
Total		(493,226,985)	504,387,829	11,160,845	263,429	11,424,273							

	Table 2 - Allocatio	n of 2013 Variance t	o Interval Customer	'S		
				Actual 2014 kW for		
	2014 GA Billed kWh for			Non-RPP	Global Adjustment	
Rate Class	Non-RPP Customers	Allocation (%)	\$ Allocation	Customers	Rate Rider	\$/Unit
General Service 50 to 499 KW	206,668,430	11.5%	75,549	491,081	0.1538	\$/kW
General Service 500 to 4999 KW	1,476,480,255	82.2%	539,815	3,232,316	0.1670	\$/kW
Large Use	81,732,249	4.6%	29,891	161,243	0.1854	\$/kW
Streetlight	31,923,315	1.8%	11,694	90,307	0.1295	\$/kW
Total	1,796,804,250	100.0%	656,950	3,974,948		

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Enersource Hydro Mississauga Inc EB - 2015-0065 Appendix 1 Global Adjustment - Variance Account 1589 Breakdown between Interval and Non-Interval Customers

	Table 3 - Allocation of 2013 Variance to Non Interval Customers													
	2014 GA Billed kWh for			Actual 2014 Billed kWh or kW for Non-	Global Adjustment									
Rate Class	Non-RPP Customers	Allocation (%)	\$ Allocation	RPP Customers	Rate Rider	\$/Unit								
Residential	91,130,679	4.2%	110,858	91,130,679	0.0012	\$/kWh								
General Service Less Than 50 KW	107,176,499	5.0%	130,252	107,176,499	0.0012	\$/kWh								
Unmetered Scattered Load	523,144	0.0%	524	523,144	0.0010	\$/kWh								
General Service 50 to 499 KW	1,545,973,918	71.7%	1,880,140	4,546,330	0.4136	\$/kW								
General Service 500 to 4999 KW	410,099,646	19.0%	498,732	1,057,770	0.4715	\$/kW								
Total	2,154,903,887	100.0%	2,620,506	204,434,422										

Table 4 - Allocation of 2014 Variance to Interval & Non Interval Customers						
Data Class	2014 GA Billed kWh for	Allogation (0/)			Global Adjustment	
Rate Class Residential	Non-RPP Customers 91,130,679	Allocation (%) 2.3%	\$ Allocation 188,191	<b>RPP Customers</b> 91,130,679	Rate Rider 0.0021	<b>\$/Unit</b> \$/kWh
General Service Less Than 50 KW	107,176,499	2.7%	, -	107,176,499	0.0021	\$/kWh
Unmetered Scattered Load	523,144	0.0%	815	523,144	0.0016	\$/kWh
General Service 50 to 499 KW	1,752,642,348	44.4%	3,613,114	5,037,411	0.7173	\$/kW
General Service 500 to 4999 KW	1,886,579,902	47.7%	3,889,291	4,290,086	0.9066	\$/kW
Large Use	81,732,249	2.1%	168,639	161,243	1.0459	\$/kW
Streetlight	31,923,315	0.8%	65,989	90,307	0.7307	\$/kW
Total	3,951,708,136	100.0%	8,146,818	208,409,369		

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment G Page 6 of 18

#### Enersource Hydro Mississauga Inc. EB-2015-0065 Incentive Regulation Model for 2016 Filers Summary of Deferral/Variance Rate Riders

TABLE 1 - Summary of Deferral/Variance Rate Riders Excluding GA (Applicable to All Customers)						
Rate Class	Unit	Deferral/Variance Account Disposition (2016) Rate Rider for all Classes	Deferral/Variance Account Disposition (2016) Rate Rider for Non-WMP	Total Deferral/Variance Account Disposition (2016) Rate Rider for Non -WMP		
RESIDENTIAL	\$/kWh	0.0014	(0.0011)	0.0003		
GENERAL SERVICE LESS THAN 50 KW	\$/kWh	0.0014	(0.0011)	0.0003		
UNMETERED SCATTERED LOAD	\$/kWh	0.0014	(0.0011)	0.0003		
GENERAL SERVICE 50 TO 499 KW (NON-INTERVAL)	\$/kW	0.4908	(0.4005)	0.0903		
GENERAL SERVICE 50 TO 499 KW (INTERVAL)	\$/kW	0.4908	(0.4005)	0.0903		
GENERAL SERVICE 500 TO 4,999 KW (NON-INTERVAL)	\$/kW	0.6222	(0.5072)	0.1150		
GENERAL SERVICE 500 TO 4,999 KW (INTERVAL)	\$/kW	0.6222	(0.5072)	0.1150		
LARGE USE (CLASS A)	\$/kW	0.8043	(0.6600)	0.1443		
LARGE USE (CLASS B)	\$/kW	0.8043	(0.6600)	0.1443		
STREET LIGHTING	\$/kW	0.5378	(0.4053)	0.1325		

TABLE 2 - Summary of GA Deferral/Variance Rate Riders (Applicable to Non-RPP Customers)					
		1595 GA Portion	1589 GA (2013)	1589 GA (2014)	TOTAL GA
		Global Adjustment	Global Adjustment	Global Adjustment	Global Adjustment
Rate Class	Unit	(Non-RPP only)	(Non-RPP only)	(Non-RPP only)	(Non-RPP only)
RESIDENTIAL	\$/kWh	(0.0020)	0.0012	0.0021	0.0013
GENERAL SERVICE LESS THAN 50 KW	\$/kWh	(0.0012)	0.0012	0.0021	0.0021
UNMETERED SCATTERED LOAD	\$/kWh	(8000.0)	0.0010	0.0016	0.0018
GENERAL SERVICE 50 TO 499 KW (NON-INTERVAL)	\$/kW	(0.3401)	0.4136	0.7173	0.7908
GENERAL SERVICE 50 TO 499 KW (INTERVAL)	\$/kW	(0.3401)	0.1538	0.7173	0.5310
GENERAL SERVICE 500 TO 4,999 KW (NON-INTERVAL)	\$/kW	(0.0769)	0.4715	0.9066	1.3012
GENERAL SERVICE 500 TO 4,999 KW (INTERVAL)	\$/kW	(0.0769)	0.1670	0.9066	0.9967
LARGE USE (CLASS A)	\$/kW	(0.1761)	0.0000	0.0000	(0.1761)
LARGE USE (CLASS B)	\$/kW	(0.1761)	0.1854	1.0459	1.0552
STREET LIGHTING	\$/kW	0.0476	0.1295	0.7307	0.9078

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

#### Effective and Implementation Date January 1, 2016

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

EB-2015-0065

#### RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to all residential services including, without limitation, single family or single unit dwellings, multifamily dwellings, row-type dwellings and subdivision developments. Energy is supplied in single phase, 3-wire, or three phase, 4-wire, having a nominal voltage of 120/240 Volts. There shall be only one delivery point to a dwelling. 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

Standard Supply Service - Administrative Charge (if applicable)

Service Charge	\$	15.67
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0101
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/kWh	0.0014
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016 Applicable only for Non-Wholesale Market Participants Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016	\$/kWh	(0.0011)
Applicable only for Non-RPP Customers	\$/kWh	0.0013
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Application of Tax Change (2016) – effective until Dec 31, 2016	\$	0.01
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$	1.03
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0079
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0064
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044
Rural or Remote Electricity Rate Protection Charge (RRRP)	\$/kWh	0.0013

Enersource Hydro Mississauga Inc.

Filed: August 17, 2015 2016 Price Cap IR Application

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

#### Effective and Implementation Date January 1, 2016

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

EB-2015-0065

#### GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

This classification refers to a non-residential account 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.

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.

Service Charge	\$	41.27
Rate Rider for Smart Metering Entity Charge - effective until October 31, 2018	\$	0.79
Distribution Volumetric Rate	\$/kWh	0.0121
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/kWh	0.0014
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016 Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.0011)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016 Applicable only for Non-RPP Customers	\$/kWh	0.0021
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Disposition of Lost Revenue Adjustment Mechanism Variance Account (LRAMVA) (2016) - effective until Dec 31, 2016	\$/kWh	0.0000
·	**	
Rate Rider for Application of Tax Change (2016) – effective until Dec 31, 2016	\$/kWh	0.0000
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$	1.88
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$/kWh	0.0005
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0074
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0058
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

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

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#### Effective and Implementation Date January 1, 2016

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

EB-2015-0065

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

This classification refers to a non-residential account 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 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.

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.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

Service Charge	\$	72.68
Distribution Volumetric Rate	\$/kW	4.3743
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/kW	0.4908
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016 Applicable only for Non-Wholesale Market Participants	\$/kW	(0.4005)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016 Applicable only for Non-RPP Customers - Non Interval Metered	\$/kW	0.7908
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016 Applicable only for Non-RPP Customers - Interval Metered	\$/kW	0.5310
Low Voltage Service Rate	\$/kW	0.0802
Rate Rider for Application of Tax Change (2016) – effective until Dec 31, 2016	\$/kW	0.0013
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$	3.31
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$/kW	0.1989
Retail Transmission Rate - Network Service Rate	\$/kW	2.8685
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	2.2603
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.8685
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.2603

Enersource Hydro Mississauga Inc.

Filed: August 17, 2015 2016 Price Cap IR Application

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## **Enersource Hydro Mississauga Inc.**TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2016

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

EB-2015-0065

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

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

#### Effective and Implementation Date January 1, 2016

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

EB-2015-0065

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

This classification refers to a non-residential account whose monthly average peak demand is equal to or greater than, or is forecast to be equal to or greater than, 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.

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.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

Service Charge	\$	1,655.22
Distribution Volumetric Rate	\$/kW	2.2509
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/kW	0.6222
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016 Applicable only for Non-Wholesale Market Participants	\$/kW	(0.5072)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016 Applicable only for Non-RPP Customers - Non Interval Metered	\$/kW	1.3012
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016		
Applicable only for Non-RPP Customers - Interval Metered	\$/kW	0.9967
Low Voltage Service Rate	\$/kW	0.0784
Rate Rider for Application of Tax Change (2016) – effective until Dec 31, 2016	\$/kW	0.0011
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$	75.28
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$/kW	0.1024
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.7752
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.2117
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

Enersource Hydro Mississauga Inc.

Filed: August 17, 2015 2016 Price Cap IR Application

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

#### Effective and Implementation Date January 1, 2016

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

EB-2015-0065

#### 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**

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.

Billing demands are established at the greater of 100% of the kW, or 90% of the kVa amounts.

Service Charge	\$	13,050.75
Distribution Volumetric Rate	\$/kW	2.7938
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016 Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/kW	0.8043
Applicable only for Non-Wholesale Market Participants Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016	\$/kW	(0.6600)
Applicable only for Non-RPP Customers - Class A Customers		(0.1761)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016	<b>•</b> " > • 1	
Applicable only for Non-RPP Customers - Class B Customers	\$/kW	1.0552
Low Voltage Service Rate	\$/kW	0.0838
Rate Rider for Application of Tax Change (2015) – effective until Dec 31, 2016	\$/kW	0.0009
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next		
cost of service-based rate order	\$	593.53
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next		
cost of service-based rate order	\$/kW	0.1271
Retail Transmission Rate - Network Service Rate - Interval Metered	\$/kW	2.9614
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered	\$/kW	2.3622
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

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

#### Effective and Implementation Date January 1, 2016

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

EB-2015-0065

#### UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. The amount of electricity consumed by unmetered connections will be based on detailed information/documentation provided by the device's manufacturer and will be agreed to by Enersource Hydro Mississauga Inc. and the customer and may be subject to periodic monitoring of actual consumption. Eligible unmetered loads include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings. 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.

Service Charge (per connection)	\$	8.52
Distribution Volumetric Rate	\$/kWh	0.0155
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016 Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/kWh	0.0014
Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.0011)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016 Applicable only for Non-RPP Customers	\$/kWh	0.0018
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Application of Tax Change (2015) – effective until Dec 31, 2016	\$/kWh	0.0000
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$	0.39
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next cost of service-based rate order	\$/kWh	0.0007
Retail Transmission Rate - Network Service Rate	\$/kWh	0.0074
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kWh	0.0058
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

Enersource Hydro Mississauga Inc.

Filed: August 17, 2015 2016 Price Cap IR Application

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

#### Effective and Implementation Date January 1, 2016

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

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\$/kWh

0.0013

0.25

#### STREET LIGHTING SERVICE CLASSIFICATION

This classification refers to an account for roadway lighting. Street Lighting is unmetered where energy consumption is estimated based on the connected wattage and calculated hours of use using methods established by the Ontario Energy Board. 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

Rural or Remote Electricity Rate Protection Charge (RRRP)

Standard Supply Service - Administrative Charge (if applicable)

Service Charge (per light)	\$	1.43
Distribution Volumetric Rate	\$/kW	10.9294
Rate Rider for Disposition of Deferral/Variance Accounts (2016) - effective until Dec 31, 2016	\$/Total	0.5378
Applicable only for Non-Wholesale Market Participants	\$/kWh	(0.4053)
Rate Rider for Disposition of Global Adjustment Account (2016) - effective until Dec 31, 2016		
Applicable only for Non-RPP Customers	\$/Total	0.9078
Low Voltage Service Rate	\$/kW	0.0580
Rate Rider for Application of Tax Change (2015) – effective until Dec 31, 2016	\$/kW	0.0039
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next		
cost of service-based rate order	\$	0.07
Rate Rider for Recovery of Incremental Capital Module Costs (2016) - in effect until the effective date of the next		
cost of service-based rate order	\$/kW	0.4971
Retail Transmission Rate - Network Service Rate	\$/kW	1.9864
Retail Transmission Rate - Line and Transformation Connection Service Rate	\$/kW	1.6344
MONTHLY RATES AND CHARGES - Regulatory Component		
Wholesale Market Service Rate	\$/kWh	0.0044

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2016
This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2015-0065

#### STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that requires Enersource Hydro Mississauga to provide distribution service on a standby basis as a back-up supply to an on-site generator. 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.

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

A Standby Service Charge will be applied for a month where standby power is not provided. The applicable rate is the approved Distribution Volumetric Rate of the applicable service class and is applied to gross metered demand or contracted amount, whichever is greater. A monthly administration charge of \$200, for simple metering arrangements, or \$500, for

Enersource Hydro Mississauga Inc.

Filed: August 17, 2015

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

Effective and Implementation Date January 1, 2016
This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors

EB-2015-0065

#### 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**

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.

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge \$ 5.40

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application

Enersource Hydro Mississauga Inc.
TARIFF OF RATES AND CHARGES

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#### Effective and Implementation Date January 1, 2016

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

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#### **ALLOWANCES**

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.40)
Primary Metering Allowance for transformer losses - applied to measured demand and energy	%	(1.00)

#### SPECIFIC SERVICE CHARGES

#### **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 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.

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.

#### **Customer Administration**

Arrears certificate	\$	15.00
Request for other billing information	\$	15.00
Credit Reference/credit check (plus credit agency costs)	\$	15.00
Credit reference/credit check (plus credit agency costs - General Service)	\$	25.00
Income Tax Letter	\$	15.00
Returned cheque (plus bank charges)	\$	12.50
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable - F	Residential) \$	20.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	10.00
Non-Payment of Account		
Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge - no disconnection	\$	9.00
Disconnect/Reconnect at meter - during regular hours	\$	20.00
Disconnect/Reconnect at pole - during regular hours	\$	185.00
Disconnect/Reconnect at pole - after regular hours	\$	415.00
Other		
Special meter reads	\$	30.00
Interval meter request change	\$	40.00
Temporary service install & remove - overhead - no transformer	\$	400.00
Specific Charge for Access to the Power Poles - \$/pole/year	\$	22.35

Enersource Hydro Mississauga Inc.

Filed: August 17, 2015

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## Enersource Hydro Mississauga Inc. TARIFF OF RATES AND CHARGES

#### Effective and Implementation Date January 1, 2016

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

EB-2015-0065

#### 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.

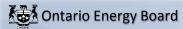
One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	100.00
Monthly Fixed Charge, per retailer	\$	20.00
Monthly Variable Charge, per customer, per retailer	\$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/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	1.0360
Total Loss Factor - Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor - Primary Metered Customer < 5,000 kW	1.0256
Total Loss Factor - Primary Metered Customer > 5,000 kW	1.0045

2.0



# Capital Module Applicable to ACM and ICM

ote: Depending on the selections made below, certain	worksheets in this workbook will be hidden.	Version
Utility Name	Enersource Hydro Mississauga Inc.	
Service Territory (if filing more than one model)		
Assigned EB Number	EB-2015-0065	
Name of Contact and Title	Natalie Yeates, Manager Rates & Settlements	
Phone Number	905-283-4095	
Email Address	nyeates@enersource.com	
Is this Capital Module being filed in a CoS or Price-Cap IR Application?	Price-Cap IR	
Indicate the Price-Cap IR Year (1, 2, 3 or 4) in which Enersource Hydro Mississauga Inc. is applying:	3	
Enersource Hydro Mississauga Inc. is applying for:	ICM Approval	
Enter Your Last CoS Rebasing Year	2013	
Last COS OEB Application Number	EB-2012-0033	
Indicate the most recent complete year in which billing and load data exists	2014	
Current IPI	1.60%	
Current Stretch Factor Group	II	
Stretch Factor Value	0.15%	
Price Cap Index	1.45%	
ased on the inputs above, the growth factor utilized in the ateriality Threshold Calculation will be determined by:	2014 Actuals	
•	2013 CoS Rebasing Year	
<u>Notes</u>		
Pale green cells represent input c	ells.	
Pale blue cells represent drop-dov	vn lists. The applicant should select the appropriate item from the	drop-down list.
White cells contain fixed values, a	utomatically generated values or formulae.	

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your ICM 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.

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment H Page 2 of 12

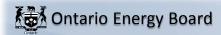


# Capital Module Applicable to ACM and ICM

**Enersource Hydro Mississauga Inc.** 

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Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment H Page 3 of 12



### **Capital Module**

## Applicable to ACM and ICM Enersource Hydro Mississauga Inc.

Select the appropriate rate classes as they appear on your most recent Board-Approved Tariff of Rates and Charges, excluding the MicroFit Class.

How many classes are on your most recent Board-Approved Tariff of Rates and Charges?

Select Your Rate Classes from the Blue Cells below. Please ensure that a rate class is assigned to each shaded cell.

#### **Rate Class Classification**

- RESIDENTIAL 1
- 2 GENERAL SERVICE LESS THAN 50 KW
- 3 GENERAL SERVICE 50 TO 499 KW
- 4 GENERAL SERVICE 500 TO 4,999 KW
- 5 LARGE USE
- UNMETERED SCATTERED LOAD 6
- STREET LIGHTING

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment H Page 4 of 12



Input the billing determinants and base distribution rates associated with Enersource Hydro Mississauga Inc.'s 2014 Actuals. Sheets 4 & 5 calculate the NUMERATOR portion of the growth factor calculation.

			2014 Actuals			2014 Actuals	
Rate Class	Units	Billed Customers or Connections	Billed kWh	Billed kW (if applicable)	Monthly Service Charge	Distribution Volumetric Rate kWh	Distribution Volumetric Rate kW
RESIDENTIAL	\$/kWh	179,182	1,469,096,847		13.03	0.0131	0.0000
GENERAL SERVICE LESS THAN 50 KW	\$/kWh	17,809	647,112,058		40.10	0.0117	0.0000
GENERAL SERVICE 50 TO 499 KW	\$/kW	3,890	2,104,160,255	6,035,821	70.62	0.0000	4.2502
GENERAL SERVICE 500 TO 4,999 KW	\$/kW	469	2,087,036,250	4,709,432	1608.24	0.0000	2.1870
LARGE USE	\$/kW	9	1,002,165,609	1,741,185	12680.35	0.0000	2.7145
UNMETERED SCATTERED LOAD	\$/kWh	2,967	11,501,822		8.28	0.0151	0.0000
STREET LIGHTING	\$/kW	49,829	31,923,315	90,306	1.39	0.0000	10.6192



Calculation of 2014 Actuals Revenue Requirement. No input required.

	Actua	

			2014	Actuals										
Rate Class	Billed Customers or Connections	Billed kWh	Billed kW (if applicable)	Monthly Service Charge	Distribution Volumetric Rate kWh	Distribution Volumetric Rate kW	Revenue	Distribution Volumetric Rate Revenue kWh	Revenue kW	Revenue Requirement from Rates	Service Charge % Revenue	Revenue kWh	Distribution Volumetric Rate % Revenue kW	Total % Revenue
	Α	В	С	D	E	F	G = A * D *12	H = B * E	I = C * F	J = G + H + I	K = G / J	L = H / J	M = I / J	N = J/R
RESIDENTIAL	179,182	1,469,096,847		13.03	0.0131	0.0000	28,016,898	19,245,169	0	47,262,066	59.3%	40.7%	0.0%	39.4%
GENERAL SERVICE LESS THAN 50 KW	17,809	647,112,058		40.10	0.0117	0.0000	8,569,691	7,571,211	0	16,140,902	53.1%	46.9%	0.0%	13.4%
GENERAL SERVICE 50 TO 499 KW	3,890	2,103,852,335	6,035,821	70.62	0.0000	4.2502	3,296,542	0	25,653,446	28,949,988	11.4%	0.0%	88.6%	24.1%
GENERAL SERVICE 500 TO 4,999 KW	469	2,069,566,375	4,709,432	1,608.24	0.0000	2.1870	9,051,175	0	10,299,528	19,350,703	46.8%	0.0%	53.2%	16.1%
LARGE USE	9	1,002,165,609	1,741,185	12,680.35	0.0000	2.7145	1,369,478	0	4,726,447	6,095,924	22.5%	0.0%	77.5%	5.1%
UNMETERED SCATTERED LOAD	2,967	11,501,822		8.28	0.0151	0.0000	294,801	173,678	0	468,479	62.9%	37.1%	0.0%	0.4%
STREET LIGHTING	49,829	31,923,315	90,306	1.39	0.0000	10.6192	831,148	0	958,977	1,790,125	46.4%	0.0%	53.6%	1.5%
Total	254,155	7,335,218,361	12,576,744				51,429,731	26,990,057	41,638,398	120,058,187				100.0%



# Capital Module Applicable to ACM and ICM

Applicants Rate Base				2014 Actuals	
Average Net Fixed Assets					
Gross Fixed Assets - Re-based Opening	\$ \$	- ,,	Α		
Add: CWIP Re-based Opening	\$	4,371,726			
Re-based Capital Additions Re-based Capital Disposals	\$ -\$	46,257,875 1,026,755			
Re-based Capital Retirements	-φ	1,020,733	E		
Deduct: CWIP Re-based Closing	-\$	4,371,726			
Gross Fixed Assets - Re-based Closing	\$	586,531,208	G		
Average Gross Fixed Assets				\$ 563,915,648	H = (A + G)/2
Accumulated Depreciation - Re-based Opening	\$	45,750,490	1		
Re-based Depreciation Expense	\$	28,721,695	J		
Re-based Disposals	•	4 000 755	K		
Re-based Retirements Accumulated Depreciation - Re-based Closing	-\$ \$	1,026,755 73,445,429			
Accumulated Depreciation  Average Accumulated Depreciation	Ψ	73,443,429		\$ 59,597,959	N = (I + M)/2
					O = H - N
Average Net Fixed Assets				\$ 504,317,688	O = H - N
Working Capital Allowance	<b>C</b>	700 045 004	_		
Working Capital Allowance Base Working Capital Allowance Rate	\$	786,215,891 13.5%	P Q		
Working Capital Allowance Working Capital Allowance		13.576		\$ 106,139,145	R = P * Q
Rate Base			_	\$ 610,456,834	S = O + R
Nate Dase			-	Ψ 010,430,034	0- O+K
Return on Rate Base					
Deemed ShortTerm Debt %		4.00%		\$ 24,418,273	W = S * T
Deemed Long Term Debt %		56.00% 40.00%		\$ 341,855,827 \$ 244,182,733	X = S * U Y = S * V
Deemed Equity %		40.00%	V	\$ 244,182,733	f = 5 V
Short Term Interest		2.08%	Z	\$ 507,900	AC = W * Z
Long Term Interest		5.09%	AA		AD = X * AA
Return on Equity		8.93%	AB_		AE = Y * AB
Return on Rate Base			-	\$ 39,718,666	AF = AC + AD + AE
Distribution Expenses					
OM&A Expenses	\$	52,564,731			
Amortization	\$	25,461,695	AH Al		
Ontario Capital Tax Grossed Up PILs	\$	3,079,933			
Low Voltage	Ψ	0,010,000	AK		
Transformer Allowance	\$	2,000,166	AL		
			AM		
			AN AO		
				\$ 83,106,525	AP = SUM ( AG : AO )
Revenue Offsets					
Specific Service Charges	-\$	1,236,783			
Late Payment Charges Other Distribution Income	-\$	1,800,192			
Other Distribution Income Other Income and Deductions	-\$ -\$ -\$	724,731 1,068,717		\$ 4,830,423	AU = SUM ( AQ : AT )
Revenue Requirement from Distribution Rates			-	\$ 117,994,767	AV = AF + AP + AU
			-	- 111,00-1,101	
Rate Classes Revenue Rate Classes Revenue - Total (Sheet 5)				\$ 120,058,187	AW
,					AZ = AV - AW
Difference			-	\$ 2,063,419	
Difference (Percentage - should be less than 1%)				-1.72%	BA = AZ / AW



Input the billing determinants associated with Enersource Hydro Mississauga Inc.'s 2013 CoS Rebasing Year. This sheet calculates the DENOMINATOR portion of the growth factor calculation. Pseudo Revenue Requirement Calculation.

	2013	CoS Rebasing Y	ear		2014 Actuals									
Rate Class	Billed Customers or Connections	Billed kWh	Billed kW C	Monthly Service Charge D	Distribution Volumetric Rate kWh E	Distribution Volumetric Rate kW F	Service Charge Revenue G = A * D *12	Distribution Volumetric Rate Revenue kWh H = B * E	Distribution Volumetric Rate Revenue kW I = C * F	Total Revenue By Rate Class J = G + H + I	Service Charge % Revenue  K = G / J <sub>total</sub>	Distribution Volumetric Rate % Revenue kWh L = H / J <sub>total</sub>	Distribution Volumetric Rate % Revenue kW M = I / J <sub>total</sub>	Total % Revenue  N = J / J <sub>total</sub>
RESIDENTIAL	176,865	1,423,857,475		13.03	0.0131	0.0000	27,654,611	18,652,533	0	46,307,144	23.1%	15.6%	0.0%	38.6%
GENERAL SERVICE LESS THAN 50 KW	17,703	612,188,101		40.10	0.0117	0.0000	8,518,684	7,162,601	0	15,681,284	7.1%	6.0%	0.0%	13.1%
GENERAL SERVICE 50 TO 499 KW	3,950		6,222,022	70.62	0.0000	4.2502	3,347,388	0	26,444,838	29,792,226	2.8%	0.0%	22.1%	24.8%
GENERAL SERVICE 500 TO 4,999 KW	464		5,154,338	1,608.24	0.0000	2.1870	8,954,680	0	11,272,537	20,227,218	7.5%	0.0%	9.4%	16.9%
LARGE USE	9		1,737,267	12,680.35	0.0000	2.7145	1,369,478	0	4,715,811	6,085,289	1.1%	0.0%	3.9%	5.1%
UNMETERED SCATTERED LOAD	2,942	10,383,027		8.28	0.0151	0.0000	292,317	156,784	0	449,101	0.2%	0.1%	0.0%	0.4%
STREET LIGHTING	49,986		49,889	1.39	0.0000	10.6192	833,766	0	529,781	1,363,548	0.7%	0.0%	0.4%	1.1%
Total	251,919	2,046,428,603	13,163,516				50,970,925	25,971,917	42,962,968	119,905,810				100.0%

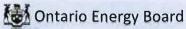
Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment H Page 8 of 12



#### **Current Revenue from Rates**

This sheet is used to determine the applicant's most current allocation of revenues (after the most recent revenue to cost ratio adjustment, if applicable) to appropriately allocate the incremental revenue requirement to the classes.

	From Most I	Recent Board Ap	proved Tariff		2014 Actuals									
Rate Class	Monthly Service Charge	Distribution Volumetric Rate kWh	Distribution Volumetric Rate kW	Re-based Billed Customers or Connections	Re-based Billed kWh	Re-based Billed kW	Current Base Service Charge Revenue	kWh Revenue	kW Revenue	Total Current Base Revenue	Service Charge % Total Revenue	Volumetric Rate % Total Revenue	Total Revenue	
	A	В	C	D	E	F	G = A * D *12	H = B * E	I = C * F	J = G + H + I	$L = G / J_{total}$	$M = H / J_{total}$	$N = I / J_{total}$	$O = J / J_{total}$
RESIDENTIAL	13.22	0.0133	0.0000	179,182	1,469,096,847		28,425,432	19,538,988	0	47,964,421	23.33%	16.04%	0.00%	39.4%
GENERAL SERVICE LESS THAN 50 KW	40.68	0.0119	0.0000	17,809	647,112,058		8,693,641	7,700,633	0	16,394,275	7.14%	6.32%	0.00%	13.5%
GENERAL SERVICE 50 TO 499 KW	71.64	0.0000	4.3118	3,890	2,103,852,335	6,035,821	3,344,155	0	26,025,253	29,369,408	2.74%	0.00%	21.36%	24.1%
GENERAL SERVICE 500 TO 4,999 KW	1631.56	0.0000	2.2187	469	2,069,566,375	4,709,432	9,182,420	0	10,448,817	19,631,236	7.54%	0.00%	8.58%	16.1%
LARGE USE	12864.22	0.0000	2.7539	9	1,002,165,609	1,741,185	1,389,336	0	4,795,049	6,184,385	1.14%	0.00%	3.94%	5.1%
UNMETERED SCATTERED LOAD	8.40	0.0153	0.0000	2,967	11,501,822		299,074	175,978	0	475,051	0.25%	0.14%	0.00%	0.4%
STREET LIGHTING	1.41	0.0000	10.7732	49,829	31,923,315	90,306	843,107	0	972,885	1,815,991	0.69%	0.00%	0.80%	1.5%
Total							52.177.165	27.415.599	42.242.004	121.834.768				100.0%



# Capital Module Applicable to ACM and ICM

Enersource Hydro Mississauga Inc.

No Input Required.

#### **Final Threshold Calculation**

Price Cap Index Growth Factor Calculation 2014 Actuals 2013 CoS Rebasing Year Growth Factor Dead Band Average Net Fixed Assets Gross Fixed Assets Opening Add: CWIP Opening Capital Additions Capital Disposals Capital Retirements	\$ \$ \$	1.45% \$120,058,187 \$119,905,810 0.13% 20% 541,300,088 4,371,726 46,257,875 1,026,755	PCI g
2014 Actuals 2013 CoS Rebasing Year  Growth Factor  Dead Band  Average Net Fixed Assets  Gross Fixed Assets Opening  Add: CWIP Opening  Capital Additions  Capital Disposals  Capital Retirements	\$ \$ -\$	\$119,905,810 0.13% 20% 541,300,088 4,371,726 46,257,875	g
2013 CoS Rebasing Year  Growth Factor  Dead Band  Average Net Fixed Assets  Gross Fixed Assets Opening  Add: CWIP Opening  Capital Additions  Capital Disposals  Capital Retirements	\$ \$ -\$	\$119,905,810 0.13% 20% 541,300,088 4,371,726 46,257,875	g
Growth Factor Dead Band Average Net Fixed Assets Gross Fixed Assets Opening Add: CWIP Opening Capital Additions Capital Disposals Capital Retirements	\$ \$ -\$	0.13% 20% 541,300,088 4,371,726 46,257,875	g
Dead Band Average Net Fixed Assets Gross Fixed Assets Opening Add: CWIP Opening Capital Additions Capital Disposals Capital Retirements	\$ \$ -\$	<b>20%</b> 541,300,088 4,371,726 46,257,875	g
Average Net Fixed Assets Gross Fixed Assets Opening Add: CWIP Opening Capital Additions Capital Disposals Capital Retirements	\$ \$ -\$	541,300,088 4,371,726 46,257,875	
Gross Fixed Assets Opening Add: CWIP Opening Capital Additions Capital Disposals Capital Retirements	\$ \$ -\$	4,371,726 46,257,875	
Add: CWIP Opening Capital Additions Capital Disposals Capital Retirements	\$ \$ -\$	4,371,726 46,257,875	
Capital Additions Capital Disposals Capital Retirements	\$ \$ -\$	46,257,875	
Capital Disposals Capital Retirements	-\$		
Capital Retirements	-\$	1 026 755	
	\$	1,020,100	
	0.00		
Deduct: CWIP Closing	-\$	4,371,726	
Gross Fixed Assets - Closing	\$	586,531,208	
Average Gross Fixed Assets	\$	563,915,648	
Accumulated Depreciation - Opening	s	45,750,490	
Depreciation Expense	s	28,721,695	
Disposals	\$ \$ \$		
Retirements	-\$	1,026,755	
Accumulated Depreciation - Closing	\$	73,445,429	
Average Accumulated Depreciation	\$	59,597,959	
Average Net Fixed Assets	\$	504,317,688	
Norking Capital Allowance Working Capital Allowance Base	\$	786,215,891	
Working Capital Allowance Rate		14%	
Norking Capital Allowance	\$	106,139,145	
Rate Base	\$	610,456,834	RB
Depreciation	\$	28,721,695	d
Threshold Value		154%	

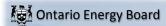
Ontario Energy Board

## Capital Module Applicable to ACM and ICM

Enersource Hydro Mississauga Inc.

Identify ALL Proposed ACM projects and related CAPEX costs in the relevant years

Identify ALL Proposed ACM projects and related CAPEX co	osts III the rele	vanit y cars												
		Test Year	Year 1	Year 2	Year 3	Year 4								
Distribution System Plan CAPEX					\$ 115,641,070									
Materiality Threshold			\$ 44,104,679	\$ 44,104,679	\$ 44,104,679	\$ 44,104,679								
Maximum Eligible Incremental Capital (Forecasted Capex less					1									
Threshold)		\$ -	\$ -	\$ -	\$ 71,536,390	\$ -								
Project Descriptions:	Type	Test Year	Year 1	Year 2	Year 3	Year 4	Total							
Churchill Meadows TS CCRA					\$ 40,378,000		\$ 40,378,000							
Cardiff TS CCRA					\$ 1,278,000 \$ 29,880,390		\$ 1,278,000 \$ 29,880,390							
Distribution System Plan 2016 CAPEX					\$ 29,880,390		\$ 29,880,390							
							\$ -							
							\$ - \$ -							
							\$ - \$ -							
							\$ -							
							\$ - \$ -							
							\$ -							
							\$ -							
							\$ - \$ -							
							\$ -							
							\$ -							
							\$ - \$ -							
							\$ - \$ -							
Total Cost of ACM Projects		\$ -	\$ -	\$ -	\$ 71,536,390	\$ -	\$ 71,536,390							
Maximum Allowed Incremental Capital			\$ -	\$ -	\$ 71,536,390	\$ -	\$ 71,536,390							
Maximum Allowed Incremental Capital			\$ -	\$ -	\$ 71,536,390	\$ -	\$ 71,536,390							
Maximum Allowed Incremental Capital		Test Year	\$ -	\$ -	\$ 71,536,390	-	\$ 71,536,390 Year 2			Year 3			Year 4	
Maximum Allowed Incremental Capital  Distribution System Plan CAPEX		Test Year	\$ -		\$ 71,536,390	\$ -   \$ -	<u> </u>		\$ 115,641,070			\$ -	Year 4	
Distribution System Plan CAPEX		Test Year		Year 1	\$ 71,536,390		<u> </u>		\$ 115,641,070 \$ 44,104,679	]		\$ -	]	
Distribution System Plan CAPEX Materiality Threshold		Test Year	\$ -	Year 1	\$ 71,536,390	ş - ]	<u> </u>			]			]	
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less		\$ -	\$ -	Year 1	\$ 71,536,390	ş - ]	<u> </u>		\$ 44,104,679	] ] ]			]	
Distribution System Plan CAPEX Materiality Threshold Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)		\$ -	\$ 44,104,675	Year 1	[	\$ - \$ 44,104,679	Year 2		\$ 44,104,679 \$ 71,536,390	] ] Year 3		\$ 44,104,679	] ] Year 4	
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less  Threshold)  Project Descriptions:	Туре	\$ -	\$ -	Year 1	[ CCA	\$ \$ 44,104,679 \$ - Proposed ACM/ICM	Year 2	CCA	\$ 44,104,679 \$ 71,536,390 Proposed ACM/ICM	Year 3 Amortization Expense	CCA   6 1.635.120	\$ 44,104,679 \$ Proposed ACM/ICM	] ] ]	CCA
Distribution System Plan CAPEX Materiality Threshold Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)	Туре	\$ -	\$ 44,104,675	Year 1	[ CCA	\$ 44,104,679 \$ - Proposed ACM/ICM	Year 2	CCA	\$ 44,104,679 \$ 71,536,390	Year 3 Amortization Expense \$ 504,725	\$ 1,615,120	\$ 44,104,679  \$ -  Proposed ACM/ICM  \$ -	] ] Year 4	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: [Churchill Meadows TS CCRA	Туре	\$ -	\$ 44,104,675  \$	Year 1	CCA	\$	Year 2	CCA	\$ 44,104,679 \$ 71,536,390 Proposed ACM/ICM \$ 40,378,000 \$ 1,278,000 \$ 29,880,390	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	\$ 44,104,679  \$ -  Proposed ACM/ICM  \$ -  \$ -  \$ -  \$ -	] ] Year 4	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA Cardiff TS CCRA	Туре	\$ -	\$ 44,104,675  \$ Proposed ACM/ICM \$ .	Year 1	CCA	\$ - S 44,104,679  \$ - Proposed ACM/ICM 5 - S - S - S - S - S - S - S - S - S -	Year 2	CCA	\$ 44,104,679 \$ 71,536,390 Proposed ACM/ICM \$ 40,378,000 \$ 1,278,000 \$ 29,880,390 \$ 5	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	\$ 44,104,679  S -  Proposed ACM/ICM  \$ -  \$ -  \$ -  \$ -  \$ -  \$ -  \$ -	] ] Year 4	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA Cardiff TS CCRA	Туре	\$ -	\$ 44,104,675  \$	Year 1	CCA	\$ - S 44,104,679  \$ - Proposed ACM/ICM 5 - S - S - S - S - S - S - S - S - S -	Year 2	CCA	\$ 44,104,679 \$ 71,536,390 Proposed ACM/ICM \$ 40,378,000 \$ 1,278,000 \$ 29,880,390	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	\$ 44,104,679  \$ -  Proposed ACM/ICM  \$ -  \$ -  \$ -  \$ -	] ] Year 4	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA Cardiff TS CCRA	Туре	\$ -	\$ 44,104,675  \$ Proposed ACM/ICM \$ - \$ - \$ 5 - \$	Year 1  Year 1  Amortization Expense	CCA	\$ -   \$ 44,104,679 \$ -   Proposed ACM/ICM \$ -   \$ -   \$ -   \$ -   \$ -   \$ -   \$ -	Year 2	CCA	\$ 44,104,679  \$ 71,536,390  Proposed ACM/ICM \$ 40,378,000 \$ 12,78,000 \$ 29,880,390 \$ - \$ - \$ - \$ - \$ - \$ -	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	\$ 44,104,679  Proposed ACM/ICM   \$	] ] Year 4	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA Cardiff TS CCRA	Туре	\$ -	\$ 44,104,675  S	Year 1  Year 1  Amortization Expense	CCA	\$ 44,104,679  \$ Proposed ACM/ICM  \$ - 5  5 - 5  5 - 5  5 - 5  6 - 7  6 -	Year 2	CCA	\$ 44,104,679 \$ 71,536,390 Proposed ACM//CM \$ 40,378,000 \$ 1,278,000 \$ 29,880,390 \$ . \$ . \$ .	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	\$ 44,104,679  Proposed ACM/ICM  \$ .  \$ .  \$ .  \$ .  \$ .  \$ .  \$ .  \$	] ] Year 4	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA Cardiff TS CCRA	Туре	\$ -	\$ 44,104,675  \$ Proposed ACM/ICM \$ - \$ - \$ 5 - \$	Year 1  Year 1  Amortization Expense	CCA	\$ 44,104,679  \$	Year 2	CCA	\$ 44,104,679  \$ 71,536,390  Proposed ACM/ICM \$ 40,378,000 \$ 1,278,000 \$ 29,880,390 \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ .	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	\$ 44,104,679  Proposed ACM/ICM   \$	] ] Year 4	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA Cardiff TS CCRA	Туре	\$ -	\$ 44,104,675  Proposed ACM/ICM  \$	Year 1  Year 1  Amortization Expense	CCA	\$ 44,104,679  S Proposed ACM/ICM  S - 5  S - 6  S - 7	Year 2	CCA	\$ 44,104,679  \$ 71,536,390  Proposed ACM/ICM \$ 40,378,000 \$ 1,278,000 \$ 29,880,390 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	\$ 44,104,679  Proposed ACM/ICM  \$	] ] Year 4	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA Cardiff TS CCRA	Туре	\$ -	\$ 44,104,675  \$ Proposed ACM/ICM  \$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	Year 1  Year 1  Amortization Expense	CCA	\$ - \$ 44,104,679	Year 2		\$ 44,104,679  \$ 71,536,390  Proposed ACM/ICM \$ 40,378,000 \$ 1,278,000 \$ 25,880,390 \$ 5 \$ - \$ \$ -	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	\$ 44,104,679    S	Year 4 Amortization Expense	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA Cardiff TS CCRA	Туре	\$ -	\$ 44,104,675  \$ Proposed ACM/ICM  \$ - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	Year 1  Year 1  Amortization Expense	CCA	\$ - \$ 44,104,679	Year 2		\$ 44,104,679  \$ 71,536,390  Proposed ACM/ICM \$ 40,378,000 \$ 1,278,000 \$ 29,880,390 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	\$ 44,104,679  Proposed ACM/ICM  \$	Year 4 Amortization Expense	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA Cardiff TS CCRA	Туре	\$ -	S	Year 1  Year 1  Amortization Expense	CCA	\$ 44,104,679  S Proposed ACM/ICM  5 - 5 5 - 5 5 - 5 5 - 5 5 - 5 5 - 6 5 - 7 5	Year 2		\$ 44,104,679  \$ 71,536,390  Proposed ACM/ICM \$ 40,378,000 \$ 1,278,000 \$ 29,880,390 \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ .	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	\$ 44,104,679  S	Year 4 Amortization Expense	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA Cardiff TS CCRA	Туре	\$ -	\$ 44,104,675  S Proposed ACM/ICM \$ \$ - \$ \$ - \$ \$ 5 - \$	Year 1  Year 1  Amortization Expense	CCA	\$ 44,104,679  S	Year 2		\$ 44,104,679  \$ 71,536,390  Proposed ACM/ICM \$ 40,378,000 \$ 12,728,000 \$ 29,880,390 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	S	Year 4 Amortization Expense	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA Cardiff TS CCRA	Туре	\$ -	S	Year 1  Year 1  Amortization Expense	CCA	\$ 44,104,679  \$	Year 2		\$ 44,104,679  \$ 71,536,390  Proposed ACM/ICM \$ 40,378,000 \$ 1,278,000 \$ 29,880,390 \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ .	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	\$ 44,104,679  S	Year 4 Amortization Expense	CCA
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Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA Cardiff TS CCRA	Туре	\$ -	\$ 44,104,679  S 444,104,679  S - S - S - S - S - S - S - S - S - S	Year 1  Year 1  Amortization Expense	CCA	\$ 44,104,679 S - 44,104,679 S - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	Year 2		\$ 44,104,679  \$ 71,536,390  Proposed ACM/ICM \$ 40,378,000 \$ 29,880,390 \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ .	Year 3 Amortization Expense \$ 504,725 \$ 15,975	\$ 1,615,120 \$ 51,120	\$ 44,104,679  Proposed ACM/ICM  \$	Year 4 Amortization Expense	CCA
Distribution System Plan CAPEX  Materiality Threshold  Maximum Eligible Incremental Capital (Forecasted Capex less Threshold)  Project Descriptions: Churchill Meadows TS CCRA CGAH TS CCRA	Туре	\$ -	\$ 44,104,675  S	Year 1  Year 1  Amortization Expense	CCA	\$ 44,104,679 \$  Proposed ACM/ICM  5	Year 2  Year 2  Amortization Expense		\$ 44,104,679  \$ 71,536,390  Proposed ACM/ICM \$ 40,378,000 \$ 1,278,000 \$ 25,880,390 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Year 3 Amortization Expense \$ 504,725 \$ 15,975 \$ 691,817	\$ 1,615,120 \$ 51,120	\$ 44,104,679    S	Year 4 Amortization Expense	CCA



### **Capital Module**

## Applicable to ACM and ICM Enersource Hydro Mississauga Inc.

#### **Incremental Capital Adjustment**

Current Revenue Requirement					
Current Revenue Requirement - Total			\$	117,994,767	Α
Return on Rate Base					
Incremental Capital	<u> </u>		\$	71,536,390	В
Depreciation Expense			\$	1,212,517	C
Incremental Capital to be included in Rate Base			\$	70,323,873	D = B - C
Deemed ShortTerm Debt %	4.0%	Е	\$	2,812,955	G = D * E
Deemed Long Term Debt %	56.0%	F	\$	39,381,369	H=D*F
3			·	, ,	
Short Term Interest	2.08%	ı	\$	58,509	K = G * I
Long Term Interest	5.09%	J	\$	2,005,063	L = H * J
Return on Rate Base - Interest			\$	2,063,572	M = K + L
Deemed Equity %	40.00%	N	\$	28,129,549	P = D * N
Return on Rate Base -Equity	8.93%	0	\$	2,511,969	Q = P * O
Return on Rate Base - Total			\$	4,575,541	R = M + Q
Amortization Expense  Amortization Expense - Incremental		С	\$	1,212,517	s
Grossed up PIL's					
Regulatory Taxable Income		0	\$	2,511,969	Т
Add Back Amortization Expense		s	\$	1,212,517	U
Deduct CCA			\$	4,187,104	V
Incremental Taxable Income			-\$	462,618	W = T + U - V
Current Tax Rate	26.5%	X			
PIL's Before Gross Up			-\$	122,594	Y = W * X
Incremental Grossed Up PIL's			-\$	166,794	Z = Y / (1 - X)
Incremental Revenue Requirement					
Return on Rate Base - Total	•	Q	\$	4,575,541	AA
Amortization Expense - Total		S	\$	1,212,517	AB
Incremental Grossed Up PIL's		Z	-\$	166,794	AC
Incremental Revenue Requirement			\$	5,621,264	AD = AA + AB + AC



Calculation of incremental rate rider. Choose one of the 3 options:

	Service Charge %	Distribution Volumetric Rate %	Distribution Volumetric Rate %	Service Charge	Distribution Volumetric Rate	Distribution Volumetric Ra	te Total Revenue	Billed Customers or			Service Charge	Distribution Volumetric	Distribution Volumetric Rate kW	
Rate Class	Revenue	Revenue kWh	Revenue kW	Revenue	Revenue kWh	Revenue kW	by Rate Class	Connections	Billed kWh	Billed kW	Rate Rider	Rate kWh Rate Rider	Rate Rider	
	From Sheet 8	From Sheet 8	From Sheet 8	Col C * Col I <sub>total</sub>	Col D* Col I <sub>total</sub>	Col E* Col I <sub>total</sub>		From Sheet 4	From Sheet 4	From Sheet 4	Col F / Col K / 12	Col G / Col L	Col H / Col M	
RESIDENTIAL	23.33%	16.04%	0.00%	1,311,505	901,498	0	2,213,003	179,182	1,469,096,847		1.03	0.0000	0.0000	Note: As per the OEB's letter issued July 16, 2015 (EB-2012-0410), Residential Rati
GENERAL SERVICE LESS THAN 50 KW	7.14%	6.32%	0.00%	401,111	355,295	0	756,406	17,809	647,112,058		1.88	0.0005	0.0000	=
GENERAL SERVICE 50 TO 499 KW	2.74%	0.00%	21.36%	154,294	0	1,200,764	1,355,058	3,890	2,103,852,335	6,035,821	3.31	0.0000	0.1989	
GENERAL SERVICE 500 TO 4,999 KW	7.54%	0.00%	8.58%	423,662	0	482,092	905,754	469	2,069,566,375	4,709,432	75.28	0.0000	0.1024	
LARGE USE	1.14%	0.00%	3.94%	64,102	0	221,236	285,338	9	1,002,165,609	1,741,185	593.53	0.0000	0.1271	=
UNMETERED SCATTERED LOAD	0.25%	0.14%	0.00%	13,799	8,119	0	21,918	2,967	11,501,822		0.39	0.0007	0.0000	=
STREET LIGHTING	0.69%	0.00%	0.80%	38,900	0	44,887	83,787	49,829	31,923,315	90,306	0.07	0.0000	0.4971	=
Total	42.83%	22.50%	34.67%	2,407,372	1,264,912	1,948,979	5,621,264	254,155	7,335,218,361	12,576,744				

5,621,264

Enersource Hydro Mississauga Inc.
Filed: August 17, 2015
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Attachment I
Page 1 of 2

# **Enersource Hydro Mississauga Inc. Ontario Regulated Price Plan (RPP) Settlement Process**

#### **Settlement Process Overview**

Enersource Hydro Mississauga Inc. ("Enersource") utilizes top-down methodology along with IESO Form 1598 to claim the difference between RPP rates applied to regulated consumers, and the sum of the Hourly Ontario Energy Price (HOEP) and Global Adjustment, which sum is the cost for electricity that Enersource purchased at the wholesale market price. The process is completed by the fourth business day of the month using meter data available from Enersource's settlement and smart meter systems.

The IESO recently established a self-certification program designed to enhance the consistency of the claims process and the level of assurance provided by LDCs regarding the calculation and recording of claims. Enersource submitted its first self-certification on May 31, 2015 for the 2014 fiscal year end.

The following section discusses the steps taken to calculate the forecasted receivable/payable amount from/to the IESO:

#### i. Determination of low volume consumption

The following data inputs are used to estimate monthly low volume RPP and non-RPP consumption:

- Enersource's total monthly system load is calculated from Enersource's settlement system using IESO meter data and embedded generation meter data;
- Class A Large Use consumption is obtained from the settlement system;
- Non-Class A monthly interval spot customer (MIST) consumption is obtained from the settlement system; and
- Low volume energy consumption is obtained from the unbilled calculation using smart meter data.

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment I Page 2 of 2

## Enersource Hydro Mississauga Inc. Ontario Regulated Price Plan (RPP) Settlement Process

#### ii. Allocation of low volume consumption

- Low volume consumption is allocated between RPP customers on tiered pricing and on TOU pricing based on recent CC&B billing system consumption data; consumption for customers on tiered pricing is allocated between Tier 1 and 2, based on the same analysis of billing data; and
- An allocation of consumption by TOU periods is based on analysis of recent CC&B billing system TOU bills.

#### iii. Pricing

The following price inputs are used in the RPP settlement process:

- Monthly weighted average HOEP;
- · Global Adjustment second estimate; and
- RPP TOU and Tiered prices.

Using the information above, Enersource calculates the cost of power for the RPP customers using HOEP and Global Adjustment second estimate rates compared to the billing amount using RPP rates. The difference between cost of power at HOEP and Global Adjustment second estimate rates and RPP rates is submitted to the IESO via Form1598.

In addition, Enersource completes a quarterly RPP true-up, as estimated consumption data (due to varying billing cycles) and the Global Adjustment second estimate rate is used in the monthly IESO submissions. The quarterly true-up utilizes actual consumption data for the true-up period and the Global Adjustment actual rate.

Enersource relies on accrual accounting, and currently bills all Class B customers using the IESO's Global Adjustment first estimate rate and all Class A customers using the actual Global Adjustment rate.

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment J Page 1 of 29

### **Memorandum**

DATE:

January 25, 2005

TO:

**Barry Lewis** 

FROM:

**Ana Schatz** 

RE:

Hydro One - Mississauga TS renamed "Cardiff TS" - Amendment

Barry, please would you put the attached fully executed copy of the above document, in our vault for safekeeping? I have a copy for our files and have forwarded a copy to Bob Koskocky.

Thanks.

Ana Schatz

Copy: Paul Sidhu

Bob Koskocky + Encl.

enersource Hydro Mississauga Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment J Page 2 of 29

3240 Mavis Road Mississauga, Ontario L5C 3K1 Tel: (905) 273-9050 Fax:(905) 566-2737

April 6, 2004

Mr. Arthur Fischer Account Executive Hydro One Networks Inc. 483 Bay Street 15th Floor North Tower Toronto, Ontario M5G 2P5

Dear Mr. Fischer:

Re: Agreement Amendment - Name Change:

"Mississauga TS" to "Cardiff TS"

I'm sorry for the delay in getting this to you. Please would you send a fully executed copy to me for our records (I will ensure that Mike Angemeer gets a copy).

Also, if it's not too much trouble, *please* would you send me a copy of the original fully executed contract? I was told that you had returned it directly to Mike Angemeer, but somehow it never surfaced at my desk — so I don't have a copy.

Thanks very much!

Ana Schatz

Admin. Assistant

Encl.

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment J Page 3 of 29

THIS AMENDING AGREEMENT made in duplicate this 15th day of January 2004. Page 15th day of January 2004.

BETWEEN:

#### HYDRO ONE NETWORKS INC.

(hereinafter called "Networks")

OF THE FIRST PART;

- and -

#### ENERSOURCE HYDRO MISSISSAUGA INC.

(hereinafter called the "Customer")

OF THE SECOND PART.

WHEREAS Networks and the Customer have entered into a Connection and Cost Recovery Agreement dated November 6, 2003 with respect to the extension by Networks of the 230 kV circuits V72R / V73R from Networks' Bramalea Transformer Station and the construction by Networks of a new transformer station to be known as "Mississauga TS" on the terms and conditions contained therein (the "CCRA").

AND WHEREAS the parties wish to amend the CCRA as of the date first written above.

NOW THEREFORE in consideration of the mutual covenants, agreements, terms and conditions herein and other good and valuable consideration, the receipt and sufficiency of which is hereby irrevocably acknowledged, the parties hereto agree as follows:

- 1. All terms which are defined in the CCRA and which appear herein without definition, shall have the meanings respectively ascribed thereto in the CCRA.
- 2. The CCRA is hereby amended by replacing all references in the CCRA to "Mississauga TS" with the words "Cardiff TS".
- 3. The parties do hereby reconfirm that the terms and conditions of the CCRA as amended by this Amending Agreement shall continue to be in full force and effect on the date first written above unless otherwise agreed in writing by the parties hereto.

IN WITNESS WHEREOF THE parties have executed this agreement by their duty authorized signing offices.

HYDRO ONE NETWORKS INC.

Name: Jim Patterson

Title: Manager - Customer Contracts & Business

Relations

I have the authority to bind the Corporation.

ENERSOURCE HYDRO MISSISSAUGA INC.

Name: Mike Angemeer

Title: Chief Operating Officer

I have the authority to bind the Corporation.

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment J Page 4 of 29

THIS AMENDING AGREEMENT made in duplicate this 15th day of January 2004.

BETWEEN:

#### HYDRO ONE NETWORKS INC.

(hereinafter called "Networks")

OF THE FIRST PART:

- and -

#### ENERSOURCE HYDRO MISSISSAUGA INC.

(hereinafter called the "Customer")

OF THE SECOND PART.

WHEREAS Networks and the Customer have entered into a Connection and Cost Recovery Agreement dated November 6, 2003 with respect to the extension by Networks of the 230 kV circuits V72R / V73R from Networks' Bramalea Transformer Station and the construction by Networks of a new transformer station to be known as "Mississauga TS" on the terms and conditions contained therein (the "CCRA").

AND WHEREAS the parties wish to amend the CCRA as of the date first written above.

NOW THEREFORE in consideration of the mutual covenants, agreements, terms and conditions herein and other good and valuable consideration, the receipt and sufficiency of which is hereby irrevocably acknowledged, the parties hereto agree as follows:

- 1. All terms which are defined in the CCRA and which appear herein without definition, shall have the meanings respectively ascribed thereto in the CCRA.
- The CCRA is hereby amended by replacing all references in the CCRA to "Mississauga TS" with the words "Cardiff TS".
- 3. The parties do hereby reconfirm that the terms and conditions of the CCRA as amended by this Amending Agreement shall continue to be in full force and effect on the date first written above unless otherwise agreed in writing by the parties hereto.

IN WITNESS WHEREOF THE parties have executed this agreement by their duty authorized signing offices.

HYDRO ONE NETWORKS INC.

Name: Jim Patterson

Title: Manager - Customer Contracts & Business

Relations

I have the authority to bind the Corporation.

ENERSOURCE HYDRO MISSISSAUGA INC.

Name: Mike Angemeer

Title: Chief Operating Officer

I have the authority to bind the Corporation.

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment J Page 5 of 29

THIS AMENDING AGREEMENT made in duplicate this 15th day of January 2004.

BETWEEN:

#### HYDRO ONE NETWORKS INC.

(hereinafter called "Networks")

OF THE FIRST PART:

- and -

#### ENERSOURCE HYDRO MISSISSAUGA INC.

(hereinafter called the "Customer")

OF THE SECOND PART.

WHEREAS Networks and the Customer have entered into a Connection and Cost Recovery Agreement dated November 6, 2003 with respect to the extension by Networks of the 230 kV circuits V72R / V73R from Networks' Bramalea Transformer Station and the construction by Networks of a new transformer station to be known as "Mississauga TS" on the terms and conditions contained therein (the "CCRA").

AND WHEREAS the parties wish to amend the CCRA as of the date first written above.

NOW THEREFORE in consideration of the mutual covenants, agreements, terms and conditions herein and other good and valuable consideration, the receipt and sufficiency of which is hereby irrevocably acknowledged, the parties hereto agree as follows:

- 1. All terms which are defined in the CCRA and which appear herein without definition, shall have the meanings respectively ascribed thereto in the CCRA.
- 2. The CCRA is hereby amended by replacing all references in the CCRA to "Mississauga TS" with the words "Cardiff TS".
- 3. The parties do hereby reconfirm that the terms and conditions of the CCRA as amended by this Amending Agreement shall continue to be in full force and effect on the date first written above unless otherwise agreed in writing by the parties hereto.

IN WITNESS WHEREOF THE parties have executed this agreement by their duty authorized signing offices.

HYDRO ONE NETWORKS INC.

Marney Time Dottornon

Naphe: Jiph Patterson

Title: Manager - Customer Contracts & Business

Relations

I have the authority to bind the Corporation.

ENERSOURCE HYDRO MISSISSAUGA INC.

Name: Mike Angemeer

Title: Chief Operating Officer

I have the authority to bind the Corporation.

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment J Page 6 of 29

## Connection and Cost Recovery Agreement

between

Enersource Hydro Mississauga Inc.



and

Hydro One Networks Inc.



for

Mississauga TS and 230 kV Line Connection

Enersource Hydro Mississauga Inc. Filed: August 17, 2015 2016 Price Cap IR Application EB-2015-0065 Attachment J Page 7 of 29

#### Mississauga TS

Enersource Hydro Mississauga Inc. (the "Customer") has requested and Hydro One Networks Inc. ("Networks") has agreed to extend the 230 kV circuits V72R / V73R from Bramalea TS and build a new 230-27.6 kV 50/83 MVA transformer station "Mississauga TS" (the "Project") on the terms and conditions set forth in this Agreement (the "Agreement") dated **November 6, 2003** and the attached Amendment to the Standard Terms and Conditions (reference # T&C V1 ESH 15-25 01-2002).

#### **Project Summary**

#### Overview and purpose of the project

Enersource Hydro Mississauga Inc. has advised Networks that it will require new capacity to supply 27.6 kV loads in the North Mississauga area. The loads in the North Mississauga area are reaching the available capacity.

The Customer has requested that Networks build a new 230-27.6 kV 50/83 MVA transformer station ("Mississauga TS") in the Tomken Road and Hwy 407 area.

Ready for Service date May 1, 2005

Financial Summary (Repayment schedule and Capital Contribution) - Details in Schedule "B"

Term: 25 years

#### The Project schedule is subject to:

- a) the Customer executing and returning this Agreement to Networks by no later than November 14, 2003; and
- b) all necessary approvals being obtained as outlined under Special Circumstances.

This Agreement constitutes the entire agreement between the parties with respect to the subject matter of this Agreement and supersedes all prior oral or written representations and agreements concerning the subject matter of this Agreement. Schedules "A" and "B" and the Standard Terms and Conditions (reference version # T&C V1 ESH 15-25 02-2003) attached hereto are to be read with and form part of this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by the signatures of their proper officers, as of the day and year first written above.

HYDRO ONE NETWORKS INC.

Jim Patterson

Manager - Customer Contracts & Business Relations

Have the authority to bind the Corporation.

ENERSOURCE HYDRO MISSISSAUGA INC.

Mike Angemeer

Chief Operating Officer

I have the authority to bind the Corporation.

ONE NETWORKS INC.

SOLICITOR

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#### Schedule "A"

#### Mississauga TS -- Agreement

#### Project Scope

#### Summary:

The scope of project by Networks to build a new transformer station "Mississauga TS" is described below.

- A new transformer station ("Mississauga TS") is to be designed, constructed, owned and operated by Networks
  and located immediately adjacent to the existing Utility Corridor which is in turn immediately adjacent to the
  Hydro Corridor in the area just east of Tomken Road and south of Highway 407.
- Connection to the 230 kV circuits V72R / V73R which are to be extended from Bramalea TS
- Protection, Control, Metering & Annunciation pertaining to "Networks" facilities.
   Note: Does not include Revenue metering.
- Property purchase for "Mississauga TS"
- Environmental Assessment.
- Witness commissioning at Network's facilities.
- Work required at Networks facilities includes engineering, procurement of equipment; installation of equipment, commissioning.
- Witnessing of work required at interface of Enersource Hydro Mississauga and Network's facilities at "Mississauga TS".

#### NETWORKS CONNECTION WORK

#### Part 1: Non-Pool Work:

Networks will:

#### 1. Protection Changes

- Review/revise V72R / V73R protections at Bramalea TS, Goreway TS, Richview TS, and Claireville TS, as required.
- Revise existing V72R / V73R protections to include cascading of Transfer Trip signals to new Mississauga TS.
- Conduct review of Interface Documents and review compliance with the Transmission System Code (TSC).

#### 2. Teleprotection

- Design and procure the equipment (NSD70s) needed at Claireville TS to accommodate teleprotection link.
- Install and commission the new equipment at Claireville TS.
- Prepare/revise telecom circuit schematic drawings.
- Prepare/revise telecom service record drawings.
- Programming and testing of the double unit NSD70 equipment at Claireville TS.
- Perform end to end functional tests.

#### 3. SCADA Modifications & Telemetry Quantities

- Modify the master SCADA at Territory Operating Centre (TOC) and Transmission Operation Management Centre (TOMC) to suit.
- Provide new modem at TOC.
- Provide telemetry quantities (device status, measured quantities and alarms) to be "collected" from a port and modern from the local RTU to TOC/TOMC.

#### 4. Instrument Transformers

• Specify, supply and install Revenue Canada approved revenue metering instrument transformers on LV bus structure and provide interface terminals to Customer metering cabinets.

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#### Mississauga TS CCRA Schedules A & B

 Provide two 15 A molded case breakers (padlockable feature) from AC station service distribution panels (one breaker per cabinet).

#### Part 2: Line Connection Pool Work

Networks will:

#### 1 230 kV Line Tap

- Extend 230 kV circuits V72R/V73R from Bramalea TS by approximately 1.9 km to the new station.
- Terminate the new line at a dead-end structure at "Mississauga TS".
- Make modifications at Bramalea TS as required for extension of the new 230 kV circuits.
- Provide 230 kV line tap from overhead circuits V72R / V73R to "Mississauga TS"...
- Provide line conductors, 2 skywires (or counterpoise) equipped with insulator end, dead-end insulators and line hardware including standard NEMA pads on the line conductors.
- Provide openers (maintenance loops) at the transmission tower.
- Terminate the line conductors at the load break switch structures and at the termination entrance structure (s).
- Terminate the skywires (or counterpoise) at the entrance structures.
- Arrange & coordinate all outages.
- Conduct archaeological survey.
- · Amend existing easement for the line tap, if required.
- Obtain all necessary permits and approvals.
- Provide new operating plates.
- It is assumed that the line tap will be exempt from Environmental Assessment.

#### Part 3: Transformation Connection Pool Work

Networks will:

#### 1. 230 kV Switching & Connection

- Provide entrance structure (s) to accommodate the overhead line tap and skywires.
- Provide connection from the line entrance to the transformers
- Provide two (2) 230 kV, 2000 A, 900 kV BIL, 63 kA motorised disconnect switches to meet the requirements of the line tap and to interrupt the maximum transformer magnetizing current.
- Provide six (6) 230 kV station class surge arrestors and six (6) 27.6 kV station class surge arrestors.
- Provide connections from the skywires (or counterpoise) to the station ground grid.
- Provide two (2) 50/66.6/83.3 MVA 215.5/28 kV transformers as per CSA standards with a 10-day summer LTR rating of 112 MVA.
- Provide six (6) single phase busing potential devices connected to the 230 kV bushings to the transformers.
- Provide spill containment around the two transformers.

#### 2. LV Switching Facilities

- Provide 36 kV GIS/P&C building with 20 36 kV 170 BIL 2500 A GIS switchgear cells including
  - Two (2) transformer breakers, 2500 A continuous.
  - One (1) bus tie breaker, 2500 A continuous.
  - Ten (10) feeder breakers, 1200 A continuous.
  - Two (2) sets of 3 phase PT's for protection & control
  - Provision for two (2) future capacitor banks
  - Two (2) transformer CT's
  - One (1) bus tie CT
  - Electrical services and AC & DC station services
  - 1000 A neutral arrangement.
- Provide cables between the transformers and the P&C building.
- Provide air core neutral reactors (1.5 ohm, 1000 A continuous, 6000 A at 15 seconds).

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#### Mississauga TS CCRA Schedules A & B

- Provide feeder egress on the west side of the station, including thirty (30) 1250 kcmil, WLPE capper 6 and 25, cable terminations and surge arresters.
- Provide neutral conductors from the switchgear to the terminating poles. These neutral conductors will be capable of carrying the maximum possible unbalanced current.
- Connect cable, cable terminations and surge arresters to "terminal" poles provided and installed by the Customer.

#### 3. Protection, Control and Teleprotection

- Provided P&C facilities are to be equipped with:
  - AC station services panel and services
  - 125 V DC battery
  - battery charger
  - DC distribution panel
  - Fuse and monitoring cabinets
  - Accommodation for 10 feeders and two future capacitor banks
- Provide for facilities at "Mississauga TS" for dc remote trip at Claireville TS for the new TS.
- Provide for design, procurement, installation and commissioning of facilities at "Mississauga TS" for a new teleprotection system between Mississauga TS and Claireville TS.
- Provide facilities at "Mississauga TS" for a new transfer trip segment between Mississauga TS and Claireville TS. Commands at Claireville TS will be cascaded on the existing teleprotection system.

#### 4. AC and DC Station Service System

- Provide an ac station service system complete with two (2) suitably rated station service transformers with appropriate fuses, ac distribution panels, auto-transfer scheme, station service metering, and cabling.
- Provide a dc station service system complete with 125 Vdc sealed battery, charger, dc distribution panels, and cabling.

#### 5. Grounding & Lightning Protection

- Provide copper conductors for the grounding system
- Provide skywire connection to the grounding system
- Provide grounding between the switchgear and the Customer's "terminal" poles.

#### 6. Station Fence, Drainage, Roads, Access Road

- Provide drainage works and spill containment.
- Provide new chain link fence and gate(s). The final fence material will be dependent on the City and zoning requirements.
- Provide access road for the station.
- Obtain approvals from Ministry of Environment and local Conservation Authority.

#### 7. Environmental and Approvals

- Obtain Certificate of Approval for station drainage and noise.
- Preparation of Environmental Specifications for station construction and line construction.
- Phase 1 / 2 Archaeological Assessments.
- Construction Soil & Water Sampling / Testing.
- Site Monitoring and Reporting
- As-Constructed Environmental Report
- All external contracts/services associated with ensuring that environmental due diligence is exercised
  throughout the life-cycle of this project. Services provided will ensure that this project remains in full
  compliance with all legislated and corporate environmental requirements during the planning, design,
  construction stages.

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#### 8. Landscaping

Provide landscaping per City, zoning and EA requirements.

#### 9. Property

- Acquire property located immediately adjacent to the existing Utility Corridor which is in turn immediately
  adjacent to the Hydro Corridor in the area just east of Tomken Road and south of Highway 407.
- Property cost includes easement costs for the station and the access road and crossing the utility corridor.
- Does not include costs for removal and processing of any contaminated soils, if required.
- Does not include major piling or soil reinforcement beyond what is normally required.
- Does not include footings, piers or slabs beyond typical Networks standards, if required.
- Does not include sound enclosures for the transformers, if required.

#### 10. Relocate 44 kV Feeders

Relocate the two 44 kV wood pole lines passing through the Utility corridor along side the new TS. Relocation work is to be performed jointly between Networks and Hydro One Brampton.

#### INTERFACE MILESTONES

#### Customer Connection Work

The Customer will:

#### 1 Feeder Connections

- Provide and install "terminal" poles just outside the station fence.
- Provide feeder connection to the "terminal" poles.
- Provide and install breaker isolating switches at the "terminal" poles.
- Provide feeder impedances to Networks.

#### 2 Telecom

Pay the cost of telecom leased circuits as required for the Customer's needs for monitoring of the new facilities.

#### 3 Easements

 Assume responsibility for applications to ORC and any associated costs associated with use of land used by feeder egress outside the station.

#### 4 Revenue Metering

- Provide revenue metering system in accordance with IMO Rules. The Customer will install the metering
  cabinet outside the P&C building on a structure near the instrument transformer structure.
- Customer may engage Hydro One Networks Services as Meter Service Provider (MSP) or act as its own MSP.
- Provide cabling between instrument transformers and the metering cabinet.
- Assume responsibility for all revenue metering related commissioning tests including those for instrument transformer provided by Networks.
- Order landline telephone services, specify and supply telephone cable to each meter cabinet for IMO MV90 access and will be ready for service at least two weeks prior to in-service date.
- Pay the cost of leased circuits required for Revenue Metering.
- Specify and supply station service supply cables to the meter cabinet.
- Assume responsibility to register meter installations with the IMO. All IMO registration work is to be done two
  weeks prior to the first transformer to be placed in service.
- Assume responsibility for purchase of spare equipment.

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#### **Miscellaneous**

**Documentation Required:** 

Feeder egress & feeder impedances

Easement Required (from customer):

Not Applicable

Name of Third Party for Easement:

To be determined

**Easement Date:** 

To be determined

Easement Lands:

To be determined

New or Modified Facility: New facility "Mississauga TS" currently proposed to be built near the existing Utility Corridor which is in turn immediately adjacent to the Hydro Corridor in the area just east of Tomken Road and south of Highway 407.

Connection Point: The Connection Point is the customer's ten feeders to be connected to the ten 27.6 kV breakers at Networks "Mississauga TS". Connection is to be made at the Customers' "terminal" poles to be located outside the station fence.

Ready for Service Date: May 1, 2005

Security Requirements: N/A

Approval Date: N/A

#### **Environmental Assessment:**

Completion of the Project on the Customer's Ready for Service date is subject to Network's obtaining environmental assessment approval by April 1, 2004.

#### Feeder Egress Agreement Required: Yes

A Feeder Egress Agreement signed by the Customer and Networks is required by the Ready for Service Date.

Property Purchase Date: April 1, 2004

Completion of the Project on the Customer's Ready for Service date is subject to Networks' purchase of the required property by April 1, 2004.

Property is required for the station and the cost of the Transformation Connection Pool Work (\$10,943,500) includes an estimate of \$646,300 for the cost of this property. Any variation in the actual cost of the property required for the station will be reflected in the Guaranteed Incremental Transformation Connection Revenue requirements.

#### Revenue Metering:

Revenue metering and associated equipment is the responsibility of the Customer and/or its designated Meter Service Provider.

The Customer will reimburse Networks for any costs Networks incurs to purchase and install revenue metering and/or associated equipment. Revenue metering equipment installed by Networks will meet IMO metering standards. Revenue metering equipment installed by Networks will become the property of the Customer on the Ready for Service date.

Networks will provide space inside the fence suitable for the Customer to accommodate revenue metering.

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#### **SCADA Access:**

At the request of the Customer and subject to compliance with the Transmission System Code, operating data at the Project will be made available to the Customer. This work is excluded from the work being performed under this Agreement.

#### Networks' Facilities - HV:

- Networks facilities that currently supply the Customer's north 27.6 kV system: Bramalea TS (T1/T2 transformers)
   Erindale TS (T1/T2 transformers)
- "Mississauga TS" (to be installed under this Project)

#### Networks' Facilities - LV:

- Networks LV (27.6 kV) facilities currently supplying the customer's North Mississauga area:
   Bramalea TS "B" and "Y" buses: Breaker positions 74M1, 74M7, 74M8, 74M9, 74M11, and 74M12
   Erindale TS "E" and "Q" buses: Breaker positions C5M31, C5M32, C5M33, C5M34, C5M35, C5M36, C5M37, C5M38, C5M39, C5M40, C5M41, and C5M42.
- "Mississauga TS" 27.6 kV
   Ten breaker positions (to be installed under this Project)

Note: Breaker positions that supply other customers are excluded from above.

#### Ownership:

- A. Networks will own all equipment and facilities installed by Networks as part of the Networks Connection Work in, under, on, over, along, upon, through and crossing Networks' Property(ies), as well as:
- The underground cables connecting Networks switchgear to the Customer's "terminal" poles outside the station.
- LV surge arresters connected to the customer's "terminal" poles outside the station.
- B. The Customer will own instrument transformers (for revenue metering) at "Mississauga TS" installed by Networks as part of the Networks Connection Work.

#### **Customer Notice Information:**

Address:

Enersource Hydro Mississauga Inc.

3240 Mavis Road Mississauga, ONT.

L5C 3K1

Attention:

Mike Angemeer

Chief Operating Officer

Fax No:

(905) 566-2737

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#### Schedule "B"

Transformation Connection Pool Work Cost: \$10,943,500 (1)

Line Connection Pool Work Cost: \$2,550,900

Non-Poolable Work Estimate (recoverable):

a) P&C Adjustments at Other Stations: \$132,100 (plus applicable taxes)

b) Instrument Transformer for Revenue Metering: \$159,500 (plus applicable taxes)

Manner of Payment of Non-Poolable Work:

Customer shall pay Networks for Non-Poolable work using the following payment schedule:

November 1, 2004:

- 50%

One (1) Month after the Project is ready for service: -50%

Capital Contribution: \$ 0 (plus applicable taxes) for Pool Work

Manner of Payment of Capital Contribution:

Not Applicable

Available Capacity:

27.6 kV available capacity for North Mississauga area is 275 MVA in total.

Bramalea TS:

85 MVA (Enersource Hydro Mississauga's portion)

Erindale TS:

190 MVA

Capacity to be installed under this project:

"Mississauga TS" 112 MVA, or 101 MW based on 90% power factor

Base Load Trigger Point:

220 MW (Estimate based on assumed 97% power factor and 83% capacity factor).

Guaranteed Revenue Date:

Line Connection Pool Work: Prior to May 1, 2012 (7 years)

Transformation Connection Pool Work: May 1, 2026 (21 years)

(1) Included in this amount is \$646,300 assumed for property costs. The Customer will be responsible for actual costs associated with property acquisition and conditions.

# GUARANTEED INCREMENTAL TRANSFORMATION CONNECTION REVENUE AND LINE CONNECTION REVENUE

Period: Each twelve month period commencing on the Ready for Service Date	Guaranteed Incremental Line Connection Revenue (k\$)	Guaranteed Incremental Transformation Connection Revenue (k\$)	Load Forecast North 27.6 kV Area (Erindale & Bramalea) (MW)	Load Forecast Incremental Loading on New "Mississauga TS" (MW)
2005	-	-	330	55
2006	\$590.4	\$1080.0	342	67
2007	\$712.6	\$1303.5	355	80
2008	\$836.4	\$1530.0	367	92
2009	\$942.2	\$1723.5	379	101
2010	\$993.8	\$1818.0	389	101
2011	\$993.8	\$1818.0	N/A	101
2012	\$856.2	\$1818.0	N/A	101
2013	\$0	\$1818.0	N/A	101
2014	\$0	\$1818.0	N/A	101
2015	\$0	\$1818.0	N/A	101
2016	\$0	\$1818.0	N/A	101
2017	\$0	\$1818.0	N/A	101
2018	\$0	\$1818.0	N/A	101
2019	\$0	\$1818.0	N/A	101
2020	\$0	\$1818.0	N/A	101
2021	\$0	\$1818.0	N/A	101
2022	\$0	\$1818.0	N/A	101
2023	\$0	\$1818.0	N/A	101
2024	\$0	\$1818.0	N/A	101
2025	\$0	\$1818.0	N/A	101
2026	\$0	\$212.5	N/A	101
2027	\$0	\$0	N/A	101
2028	\$0	\$0	N/A	101
2029	\$0	\$0	N/A	101
2030	\$0	\$0	N/A	101

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## Standard Terms and Conditions for Transmission Customer Connection Projects of 29

- The Customer agrees to guarantee a minimum amount of revenue to be derived from Incremental Load in accordance with the terms and conditions of the Agreement to hold the Pool harmless as a result of the Project.
- 2. Subject to Section 23 and the termination rights herein, the Agreement shall be in full force and effect and binding on the parties as of the date of the Agreement (the "Effective Date") and shall expire on the earlier of the Guaranteed Revenue Date and the date that the debt owed by the Customer pursuant to Section 12 is reduced to zero (the "Term").
- Each party represents and warrants to the other that;
- it has all the necessary corporate power, authority and capacity to enter into the Agreement and to perform its obligations hereunder, and
- (b) the execution of the Agreement and compliance with and performance of the terms, conditions, and covenants contemplated herein have been duly authorized by all necessary corporate action on its part.

Where the New or Modified Facility is owned by the Customer, the Customer represents and warrants to Hydro One Networks Inc. ("Networks") that it has obtained all necessary approvals with respect to the construction of the New or Modified Facility (including, but not limited to, where applicable, leave to construct pursuant to Section 92 of the Ontario Energy Board Act, 1998 (being Schedule "B" of the Energy Competition Act, S.O. 1998,c. 15)) and in order to proceed with the Customer Connection Work.

#### Part A: Networks Connection Work

- 4. The Customer and Networks shall perform their respective obligations outlined in the Agreement in a manner consistent with Good Utility Practice and the Transmission System Code, in compliance with all Applicable Laws, including, but not limited to the requirements of the Electrical Safety Code, and using duly qualified and experienced people.
- The parties acknowledge and agree that:
- (a) Networks is responsible for obtaining any and all permits, certificates, reviews and approvals required under any Applicable Laws with respect to the Networks Connection Work and those required for the construction, connection and operation of the New or Modified Facility where the New or Modified Facility is owned by Networks;
- (b) the Customer is responsible for obtaining any and all permits, certificates, reviews and approvals required under any Applicable Laws with respect to the Customer Connection Work and those required for the construction, connection and operation of the New or Modified Facility where the New or Modified Facility is owned by the Customer, including those required under the Electrical Safety Code and the Customer shall ensure that it has received all such requisite permits, certificates, reviews and approvals prior to connection;
- (c) the Customer will enter into a Connection Agreement with Networks at least 14 calendar days prior to the connection of the New or Modified Facility to Networks' transmission system;
- (d) the Customer will ensure that Project data is made available or provided to Networks as required by Networks;
- (e) the Customer will ensure that the work performed by the Customer and others required for successful installation, testing and commissioning of protective equipment is completed as

required to enable Networks witnessing and testing to confirm satisfactory performance of such systems;

- (f) the Customer will provide any hardware required to connect to Networks' transmission system;
- (g) the Customer will provide coordination on protection;
- (h) Networks' responsibilities under the Agreement with respect to the connection of the New or Modified Facility to Networks' transmission system shall be limited to the performance of the Networks Connection Work;
- (i) the Customer shall perform the Customer Connection Work at its own expense;
- (j) where the New or Modified Facility is owned by the Customer, the Customer shall provide technical specifications for the New or Modified Facility as required for Networks' reviews. Until Networks has accepted the technical specifications (including electrical drawings) for the New or Modified Facility and accepted the Customer's verification of those portions of the Customer's electrical facilities affecting Networks' transmission system, Networks shall not be bound to connect the New or Modified Facility to Networks' transmission system; and
- (k) the Networks Connection Work and Networks' rights and requirements hereunder, including, but not limited to:
- Networks' specifications of the protection equipment on the Customer's side of the Connection Point;
- (ii) Networks' acceptance of power system components on the Customer's side of the Connection Point; and
- (iii) Networks' acceptance of the technical specifications (including electrical drawings) for the New or Modified Facility where the New or Modified Facility is owned by the Customer and/or the Customer Connection Work;

are solely for the protection of Networks' transmission system and that the Customer is responsible for installing equipment and facilities such as protection and control equipment to protect its own property, including, but not limited to the New or Modified Facility where the New or Modified Facility is owned by the Customer.

- 6. Networks shall use reasonable efforts to complete the Networks Connection Work by the Ready for Service Date specified in Schedule "A" provided that:
- (a) the Customer is in compliance with its obligations under the Agreement;
- (b) any work required to be performed by third parties has been performed in a timely manner and in a manner to the satisfaction of Networks, acting reasonably;
- (c) there are no delays resulting from Networks not being able to obtain outages from the Independent Electricity Market Operator (the "IMO") required for the Networks Connection Work or from the IMO making changes to the Networks Connection Work or the scheduling of all or a portion thereof:
- (d) Networks does not have to use its employees, agents and contractors performing the Networks Connection Work elsewhere on its transmission system or distribution system due to an Emergency (as that term is defined in the Transmission System Code) or an event of force majeure;
- (e) Networks is able to obtain the materials and labour required to perform the Networks Connection Work with the expenditure of Premium Costs where required;
- (f) where Networks needs to obtain leave to construct pursuant to Section 92 of the Ontario Energy Board Act, 1998 (being

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- Schedule "B" of the Energy Competition Act, S.O. 1998, c. 15), such leave is obtained by no later than the date specified as the Approval Date in Schedule "A" of the Agreement;
- (g) where applicable, Networks received the easement described in Section 21 hereof by the Easement Date specified in Schedule "A";
- the Customer executed this Agreement by no later than the date specified as the Execution Date in Schedule "A"; and
- Networks obtains internal approval to commit the funds for the Project.
- 7. Upon completion of the Networks Connection Work:
- (a) Networks shall own, operate and maintain all equipment referred to in Schedule "A" of the Agreement; and
- (b) other than equipment referred to in (a) above that will be owned, operated and maintained by Networks, all other equipment provided by Networks as part of the Networks Connection Work or provided by the Customer as part of the Customer Connection Work will be owned, operated and maintained by the Customer.

#### The Customer acknowledges that:

- (i) ownership and title to the equipment referred to in (a) above shall throughout the Term and thereafter remain vested in Networks and the Customer shall have no right of property therein;
- (ii) that any portion of the equipment referred to in (a) above that is located on the Customer's property shall be and remain the property of Networks and shall not be or become fixtures and/or part of the Customer's property; and
- (iii) the right to the benefit of any capital cost allowance determined for capital contribution(s) by the Customer for the equipment referred to in (a) above shall be the Customer's.
- 8. The Customer acknowledges and agrees that Networks is not responsible for the provision of power system components on the Customer's Facilities, including, without limitation, all transformation, switching, metering and auxiliary equipment such as protection and control equipment.

All of the power system components on the Customer's side of the Connection Point including, without limitation, all transformation, switching and auxiliary equipment such as protection and control equipment shall be subject to the acceptance of Networks with regard to Networks' requirements to permit connection of the New or Modified Facility to Networks' transmission system, and shall be installed, maintained and operated in accordance with all applicable laws, codes and standards, including, but not limited to, the Transmission System Code, at the expense of the Customer. Networks acceptance is solely for the protection of Networks' Facilities.

- 9. Where Networks has equipment for automatic reclosing of circuit breakers after an interruption for the purpose of improving the continuity of feeder connection, it shall be the obligation of the Customer to provide adequate protective equipment for the Customer's facilities that might be adversely affected by the operation of such reclosing equipment. The Customer shall provide such equipment as may be required from time to time by Networks for the prompt disconnection of any of the Customer's apparatus that might affect the proper functioning of Networks' reclosing equipment.
- 10. The Customer shall provide Networks with copies of the documentation specified in Schedule "A" of the Agreement under the heading "Documentation Required", acceptable to Networks, by no later than 120 calendar days after the Ready for Service

Date. The Customer shall ensure that Networks may retain this documentation for Networks' ongoing planning, system design, and operating review. Where the New or Modified Facility is owned by the Customer, the Customer shall also maintain and revise such documentation to reflect changes to the New or Modified Facility and provide copies to Networks on demand and as specified in the Connection Agreement.

11. Nothing contained within the Agreement, including, subsection 13 below shall preclude, prevent, prohibit or operate as a waiver of any of the parties rights to make application to the OEB, participate in any hearings before the OEB or to make any appeals to a Court of competent jurisdiction regarding any decision by the OEB with respect to any costs and the allocation of any costs associated with, related to, or arising out of the connection of the Project to Networks' transmission system or Networks' policies in respect of connections generally.

## Part B: Transformation Connection Pool Work and/or Line Connection Pool Work and Non-Poolable Work

12. The Customer shall pay Networks the Cost of the Networks Connection Work described as the Transformation Connection Pool Work and/or Line Connection Pool Work in Schedule "A" of the Agreement which is the amount specified in Schedule "B" of the Agreement (plus applicable taxes) being the amount shown as the "Transformation Connection Pool Work Cost" and/or the "Line Connection Pool Work Cost".

The Customer shall pay Networks the Capital Contribution (plus applicable taxes) in the manner specified in Schedule "B" of the Agreement for that part of the Transformation Connection Pool Work and/or the Line Connection Pool Work that cannot be supported by revenue guarantees.

The Cost of the Transformation Connection Pool Work and/or Line Connection Pool Work less any Capital Contribution paid by the Customer is a debt owed to Networks by the Customer and subject to Sections 13 and 14 below, that debt shall be paid by the Customer to Networks on the earlier of the following dates:

- the Guaranteed Revenue Date; and
   the date of termination of the Agreement.
- 13(a). Notwithstanding Section 12, the parties further agree that, provided that the Actual Incremental Transformation Connection Revenue and/or the Actual Incremental Line Connection Revenue received by Networks is equal to or exceeds the Guaranteed Incremental Transformation Connection Revenue and/or Guaranteed Incremental Line Connection Revenue for a specified period, Networks will forgive an amount of the foregoing debt equal to the amount of the Guaranteed Incremental Transformation Connection Revenue and/or Guaranteed Incremental Transformation Transformation Revenue specified for the period in question provided that the Customer's peak load met or exceeded the Available Capacity during at least one month of the twelve month period in question.
- 13(b). Commencing on the first anniversary of the Ready for Service Date and every year thereafter during the Term, if the Customer's peak load fails to meet or exceed the Available Capacity during at least one month of the period, the Customer will not receive a credit for that period and the Customer shall pay Networks the Guaranteed Incremental Transformation Connection Revenue specified for the period in question by no later than 30 days after the date of Networks' invoice therefor.
- 13(c). Commencing on the fifth anniversary of the Ready for Service Date and every fifth year thereafter during the Term, if the Actual Incremental Transformation Connection Revenue and/or

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Actual Incremental Line Connection Revenue received by Networks is less than the Guaranteed Incremental Transformation Connection Revenue and/or Guaranteed Incremental Line Connection Revenue specified for the previous five periods in question, the Customer shall pay Networks the difference by no later than 30 days after the date of Networks' invoice therefor.

13(d). For every period during the term, with the exception of every fifth period commencing on the fifth anniversary of the Ready for Service Date and every fifth year thereafter, if the Actual Incremental Transformation Connection Revenue and/or Actual Incremental Line Connection Revenue received by Networks is less than the Guaranteed Incremental Transformation Connection Revenue and/or Guaranteed Incremental Line Connection Revenue specified for the period in question and such difference is less than 20% of the Guaranteed Incremental Transformation Connection Revenue and/or Guaranteed Incremental Line Connection Revenue specified for the period in question, the Customer shall be entitled to carry forward that amount (the "Carry Forward Amount"), which shall be added to the Guaranteed Incremental Transformation Connection Revenue and/or Guaranteed Incremental Line Connection Revenue for the following period to result in a Revised Guaranteed Incremental Transformation Connection Revenue and/or Revised Guaranteed Incremental Line Connection Revenue for the next following period.

#### Thereafter any reference to:

- (I) Guaranteed Incremental Transformation Connection Revenue in the Agreement shall mean the greater of Guaranteed Incremental Transformation Connection Revenue for the period in question and the Revised Guaranteed Incremental Transformation Connection Revenue; AND
- (II) Guaranteed Incremental Line Connection Revenue in the Agreement shall mean the greater of Guaranteed Incremental Line Connection Revenue for the period in question and the Revised Guaranteed Incremental Line Connection Revenue.
- 13(e). Notwithstanding Section 13(c) above, if in any period during the Term, the Actual Incremental Transformation Connection Revenue and/or Actual Incremental Line Connection Revenue received by Networks is less than the Guaranteed Incremental Transformation Connection Revenue and/or Guaranteed Incremental Line Connection Revenue specified for the period in question and such difference is greater than 20% of the Guaranteed Incremental Transformation Connection Revenue and/or Guaranteed Incremental Line Connection Revenue specified for the period in question, the Customer shall pay Networks the difference by no later than 30 days after the date of Networks' invoice therefore
- 13(f) Commencing on the fifth anniversary of the Ready for Service Date and every fifth year thereafter, if the Actual Incremental Transformation Connection Revenue and/or Actual Incremental Line Connection Revenue received by Networks is more than the Guaranteed Incremental Transformation Connection Revenue and/or Guaranteed Incremental Line Connection Revenue specified for the five periods in question, Networks will reduce the amount of debt owing by the Customer by reducing the amount of Guaranteed Incremental Transformation Connection Revenue and/or Guaranteed Incremental Line Connection Revenue that must be received by Networks during the next five periods shown in Schedule B of the Agreement such that the total reduction over the next five periods is equal to the excess amount received by Networks. This may have the effect of shortening the Term of the Agreement.
- 13(g). The Customer acknowledges and agrees that:

- (a) the Actual Incremental Transformation Connection Revenue is distinct revenue that does not include Transformation Connection revenue derived from Base Load Trigger Point or any network revenue; and
- (b) the Actual Incremental Line Connection Revenue is distinct revenue that does not include Line Connection revenue derived from Base Load Trigger Point or any network revenue
- 14. The Customer shall pay the amount shown for the cost of the Networks Connection Work described as Non-Pool Work in Schedule "A" of the Agreement which is the amount specified in Schedule "B" of the Agreement (plus applicable taxes) in the manner specified in Schedule "B" of the Agreement.
- 15. As the Project is schedule-driven and as the monetary amounts specified in Schedule "B" of the Agreement are based upon normal timelines for delivery of material and performance of work, in addition to the amounts that the Customer is required to pay pursuant to Section 12 and 14 above, the Customer agrees to pay Networks' Premium Costs if the Customer causes or contributes to any delays, including, but not limited to, the Customer failing to execute the Agreement by the Execution Date specified in Schedule "A" of the Agreement.

Networks will obtain the Customer's approval prior to Networks authorizing the purchase of materials or the performance of work that will attract Premium Costs. The Customer acknowledges that its failure to approve an expenditure of Premium Costs may result in further delays and Networks will not be liable to the Customer as a result thereof. The Customer shall pay any prior-approved Premium Costs within 30 calendar days after the date of Networks' final invoice therefor, billable at the end of the project. Interest shall be payable at the rate of 18 per cent per year on all overdue payments. The obligation to pay any amount hereunder shall survive the termination of the Agreement.

16(a) If the Project is cancelled or the Agreement is terminated for any reason whatsoever other than breach of the Agreement by Hydro One, the Customer shall pay Hydro One's Actual Costs incurred on and prior to the date that the Project is cancelled or the Agreement is terminated, including the preliminary design costs and all costs associated with the winding up of the Project, including, but not limited to, storage costs, facility removal expenses and any environmental remediation costs.

If the Customer provides written notice to Networks that it is cancelling or deferring the Project, Networks shall have 10 Business Days to provide written notice to the Customer listing the individual items listed as materials which it agrees to purchase. Networks shall deduct the actual costs of those individual items of materials being purchased by Networks from the Actual Costs referred to above.

If Networks does not require all or part of the materials, the Customer may exercise any of the following options or a combination thereof:

where materials have been ordered but all or part of the materials have not been received by Networks, the Customer shall have the right to require Networks, at the Customer's sole expense, to continue with the purchase of the materials and transfer title to those materials on an "as is, where is basis" to the Customer upon the Customer paying Networks' Actual Costs for such materials, provided that the Customer exercises this option within 15 Business Days of the termination, cancellation or deferral;

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- (ii) where all or part of the materials have been received by Networks but have not been installed, the Customer shall have the right to require Networks, at the Customer's sole expense, to transfer title to the materials on an "as is, where is basis" to the Customer upon the Customer paying Networks' Actual Costs for such materials, provided that the Customer exercises this option within 15 Business Days of the termination, cancellation or deferral. The Customer shall also be responsible for any warehousing costs associated with the storage of the materials to the date of transfer; or
- (iii) where all or part of the materials have been received by Networks and have been installed, the Customer shall have the right to require Networks, at the Customer's sole expense, to: transfer title to the materials on an "as is, where is basis" to the Customer upon the later of (A) the Customer paying Networks' Actual Costs for such materials; and (B) the date that Networks removes the materials from its property at the risk of the Customer; provided that the Customer exercises this option within 15 Business Days of the termination, cancellation or deferral. The Customer shall also be responsible for any costs associated with the installation and the removal of the materials that have been installed by Networks.

The Customer shall pay all amounts which become payable under this Section within 30 calendar days after the date of invoice.

16(b). If the Customer wishes to defer the Project, the Parties will negotiate the terms of such deferral.

- In the event that the Customer sells, leases or otherwise 17. transfers or disposes of the Customer's Facilities to a third party during the Term of the Agreement, the Customer shall cause the purchaser, lessee or other third party to whom the Customer's Facilities are transferred or disposed to enter into an assumption agreement with Networks to assume all of the Customer's obligations in the Agreement; and notwithstanding such assumption agreement, the Customer shall remain obligated to pay the amounts thereafter payable pursuant to Sections 12, 13, 14, 15 and 16 by the purchaser, lessee or other third party in the case of a transfer or disposition. The Customer further acknowledges and agrees that in the event that all or a portion of the Customer's Facilities are shut down, abandoned or vacated for any period of time during the Term of the Agreement, the Customer shall remain obligated to pay the amounts payable pursuant to Sections 12, 13, 14 and 15 for the said time period.
- 18. The Customer, whenever required by Networks to do so, shall furnish security satisfactory to Networks for the performance by the Customer of its obligations for pooled and non-pooled costs under the Agreement, and shall maintain the security in full force and effect during the continuance of the Agreement. The security must be in a form acceptable to Networks and may be an irrevocable letter of credit given by a bank chartered in Canada, a surety bond given by a surety company acceptable to Networks, negotiable bonds satisfactory to Networks or a cash deposit. The security provided shall not exceed the remaining amounts owing in respect of the Non-Pool Work and Transformation Connection Pool Work and/or Line Connection Pool Work less any capital contributions.

The Customer, if not in default under the Agreement shall be entitled to the interest payable on negotiable bonds held as security or the interest on cash deposits at the prevailing rate paid by Networks on cash deposits. Where the Customer has furnished any of the forms of security hereinbefore specified, the Customer if not in default as aforesaid shall have the right at any time to substitute for the security any other of the forms of security acceptable to Networks. If at any time the security furnished to Networks becomes unsatisfactory to Networks, the Customer upon request of Networks shall promptly furnish security, within fifteen (15) Business Days of receipt of

notice, that is satisfactory to Networks. Security held in regards to the Agreement shall be returned to the Customer once obligations are fulfilled.

Upon or any time after the occurrence or deemed occurrence of an Event of Default and the expiry of the rectification period set forth in Section 23, Networks may do any one or more of the following: (i) exercise its rights and remedies as a secured party with respect to all security, including any such rights and remedies under Applicable Laws then in effect; (ii) exercise its rights of set-off against any and all property of the Customer in the possession of Networks or its agent; (iii) draw on any outstanding letter of credit issued for its benefit; and (iv) liquidate all security then held by or for the benefit of Networks free from any claim or right of any nature whatsoever of the Customer, including any equity or right of purchase or redemption by the Customer. Networks shall apply the proceeds of the collateral realised upon the exercise of any such rights or remedies to reduce the Customer's obligations under the Agreement (the Customer remaining liable for amounts owing to Networks after such application), subject to Networks' obligation to return any surplus proceeds remaining after such obligations are satisfied in full.

#### Part C:

In the event that the Transformation Connection Service Rate or the Line Connection Service Rate is rescinded or the components, or the methodology of determination of such rates is materially changed, the Parties agree to negotiate a new mechanism for the purposes of the Agreement. The Parties shall have 90 calendar days or longer if mutually agreed to by the parties in writing from the effective date of rescission or fundamental change of the Transformation Connection Service Rate or the Line Connection Service Rate to agree to a new mechanism. If the Parties are unable to successfully negotiate a replacement within that 90 calendar day period, they shall submit to arbitration, in accordance with the requirements of the Transmission System Code (or the Connection Agreement attached thereto); or if there is no arbitration provision in the Transmission System Code (or the Connection Agreement attached thereto), to the requirements of the Arbitration Act, 1991 (Ontario), as amended, to settle on a new mechanism. The decision of the arbitrator shall be binding on each party with no right of appeal.

The terms of reference of the arbitration shall be to identify a new mechanism that is, to the extent possible, fair to the parties and constitutes a reasonably comparable replacement for the Transformation Connection Service Rate or the Line Connection Service Rate.

Any settlement on a new mechanism pursuant to this Section 19 shall apply retroactively from the date on which the Transformation Connection Service Rate or the Line Connection Service Rate was rescinded or fundamentally changed. Until such time as a new mechanism is determined hereunder, any amounts to be paid by the Customer under the Agreement shall be based on the Transformation Connection Service Rate or the Line Connection Service Rate or the Line Connection Service Rate in effect prior to the effective date of any such changes.

#### 20.1 The Customer:

(a) shall not Transmit or Distribute electricity using the Customer's Facilities to any load now or hereafter supplied from Networks' Facilities or Third Party Facilities and if the Customer does so, the Customer shall pay Networks an amount equal to the avoided applicable Transmission Rates as if the load remained on Networks' Facilities or the Third Party Facilities, as the case may be, until the date that:

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- (i) Networks' Facilities or the Third Party Facilities are removed from service at end-of-useful-life and are not replaced by new transmission facilities; or
- (ii) Networks requires Networks' Facilities to provide transmission services to other Customers or the affected third party requires the Third Party Facilities to supply its customers.
- (b) shall not permit any third party to transmit or distribute electricity using or by connecting to the Customer's Facilities or in any other manner, to any load now or hereafter supplied from Networks' Facilities or the Third Party Facilities and if the Customer does so, the Customer shall pay Networks an amount equal to the avoided applicable Transmission Rates as if the load remained on Networks' Facilities or the Third Party Facilities until the date that:
  - Networks' Facilities or the Third Party Facilities are removed from service at end-of-useful-life and are not replaced by new transmission facilities; or
  - (ii) Networks requires Networks' Facilities to provide transmission services to other customers or the affected third party requires the Third Party Facilities to supply its customers.
- (c) shall not supply new load growth using the Customer's Facilities or the Third Party Facilities when Networks has spare capacity available at Networks' Facilities to supply such load; and if it does so, the Customer shall pay Networks an amount equal to the avoided applicable Transmission Rates by paying as if the new load were supplied from the Networks Facilities. Notwithstanding the foregoing, the Customer will not owe any amounts to the Networks, if the Customer can demonstrate to the satisfaction of the Networks, acting reasonably, that it would have been uneconomic or inefficient for the Customer to supply the load growth in question using Networks' Facilities.
- (d) shall cause the purchaser, lessee or other third party to whom the Customer sells, leases, or otherwise transfers or disposes of the Customer's Facilities to enter into an assumption agreement with Networks to assume all of the Customer's obligations under this Section 20.1.
- 20.2 Nothing contained within this Agreement, including, without limiting the generality of the foregoing, Section 20.2, shall preclude, prevent, prohibit or operate as a waiver of any of the Parties' rights to:
  - (i) make application to the OEB;
  - (ii) participate in any hearings before the OEB; or
  - (iii) make any appeals to a Court of competent jurisdiction regarding any decision by the OEB,

with respect to any matter, issue, thing, interpretation, consideration or consequence whatsoever that is related to:

- A. the Transmission or Distribution of electricity to any load now or hereafter supplied from Networks' Facilities or the facilities of any licensed electricity distributor by the Customer or by a third party using the Customer's Facilities to supply said load;
- the interpretation or application of Section 20.1 above; and
- C. the Transmission and Distribution of electricity to any load now or hereafter supplied from Networks facilities other than Networks' Facilities or from facilities of any licensed electricity distributor by any other Customer or by a third party.

- 20.3 Section 20.1 shall be subject to and applied in accordance with any Order or decision made by the OEB or any court with respect to any matter, issue, thing, interpretation, consideration or consequence that relates to:
  - (i) the Transmission and Distribution of electricity to any load now or hereafter supplied from Networks' Facilities or the facilities of any licensed distributor by the Customer or by a third party using the Customer's Facilities to supply said load; and
  - (ii) the terms and conditions of Section 20.1.
- 20.4 With respect to any Order or decision of the OEB or a court relating to the Transmission or Distribution of electricity to any load now or hereafter supplied from facilities other than Networks' Facilities or from the facilities of any licensed distributor by any Customer other than by the Customer or by a third party, the parties acting reasonably shall agree in writing as to application of said Order or decision to Section 20.1 and to any amendments thereto.
- 20.5 Sections 20.1 to 20.4 inclusive shall survive the termination of this Agreement and will be terms of any Connection Agreement or such other agreement as required by the Transmission System Code that is applicable to the owner and/or operator of the Customer's Facilities.

#### Part D: Easement

21. If specified in Schedule "A" that an easement is required, the Customer shall or the Customer shall cause the third party specified in Schedule "A" to grant an easement to Networks substantially in the form of the easement that will be attached hereto as Appendix "C", if required, for the property described as the Easement Lands in Schedule "A" by no later than the date specified as the Easement Date in Schedule "A" (hereinafter referred to as the "Easement") with good and marketable title thereto, free of all encumbrances, first in priority except as noted herein, and in registerable form, in consideration of the sum of \$2.00.

The above Easement shall be for perpetuity (the "Term") commencing on the In-Service Date provided that in the event that Networks removes the asset that is the subject of the Easement during the term, Networks shall surrender the Easement at that time. Subject to the foregoing, the Easement shall survive the termination of the Agreement.

#### Part E: Events of Default

- 22. Each of the following events shall constitute an "Event of Default" under the Agreement:
- (a) failure by the Customer to pay any amount due under the Agreement, including any amount payable pursuant to Sections 12, 13, 14, 15 or 16 within the time stipulated for payment;
- (b) breach by the Customer or Networks of any Material term, condition or covenant of the Agreement; or
- (c) the making of an order or resolution for the winding up of the Customer or of its operations or the occurrence of any other dissolution, bankruptcy or reorganization or liquidation proceeding instituted by or against the Customer.
- 23. Upon the occurrence of an Event of Default by the Customer hereunder (other than those specified in section 22(c) of the Agreement, for which no notice is required to be given by Networks), Networks shall give the Customer written notice of the Event of Default and allow the Customer 30 calendar days from the date of receipt of the notice to rectify the Event of Default, at the Customer's sole expense. If such Event of Default is not cured

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to Networks' reasonable satisfaction within the 30 calendar day period, Networks may, in its sole discretion, exercise the following remedy in addition to any remedies that may be available to Networks under the terms of the Agreement, at common law or in equity: deem the Agreement to be repudiated and, after giving the Customer at least 10 calendar days' prior written notice thereof, recover, as liquidated damages and not as a penalty, the balance of the amounts payable by the Customer pursuant to Sections 12, 13, 14, 15 and 16.

- 24. Upon the occurrence of an Event of Default by Networks hereunder, the Customer shall give Networks written notice of the Event of Default and shall allow Networks 30 calendar days from the date of receipt of the notice to rectify the Event of Default at Networks' sole expense. If such Event of Default is not cured to the Customer's reasonable satisfaction within the 30 calendar day period, the Customer may pursue any remedies available to it at law or in equity, including at its option the termination of the Agreement.
- 25. All rights and remedies of Networks and the Customer provided herein are not intended to be exclusive but rather are cumulative and are in addition to any other right or remedy otherwise available to Networks and the Customer respectively at law or in equity, and any one or more of Networks' and the Customer's rights and remedies may from time to time be exercised independently or in combination and without prejudice to any other right or remedy Networks or the Customer may have or may have exercised. The parties further agree that where any of the remedies provided for and elected by the non-defaulting party are found to be unenforceable, the non-defaulting party shall not be precluded from exercising any other right or remedy available to it at law or in equity.

In addition to any other remedy provided hereunder, all overdue amounts that are outstanding for longer than 30 days shall bear interest at 18% per annum.

## Part F: Capital Contributions and Transmission System Code

26. Until Networks has published and the Ontario Energy Board has accepted Networks' procedure and methodology for determining the requirement for a capital contribution in accordance with Section 4.1 of the *Transmission System Code*, any Capital Contributions paid by the Customer under the terms of this Agreement are subject to adjustment with such adjustment to be solely based on the procedure and methodology accepted by the OEB.

#### Part G: Liability and Force Majeure

27. Other than for sums payable under the Agreement, the Customer shall only be liable to Networks and Networks shall only be liable to the Customer for any damages that arise directly out of the willful misconduct or negligence in meeting their respective obligations under the Agreement.

Despite the foregoing, neither Party shall be liable under any circumstances whatsoever for any loss of profits or revenues, business interruption losses, loss of contract or loss of goodwill, or for any indirect, consequential, incidental or special damages, including but not limited to punitive or exemplary damages, whether any of the said liability, loss or damages arise in statute, contract, tort or otherwise.

This provision shall survive the termination of the Agreement.

28. Neither party shall be considered to be in default in the performance of its obligations under the Agreement, except obligations to make payments with respect to amounts already accrued, to the extent that performance of any such obligation is prevented or delayed by any cause, existing or future, which is beyond the reasonable control of, and not a result of the fault or negligence of, the affected party ("Force Majeure") and includes, but is not limited to, system operating conditions mandated by the IMO, strikes, lockouts and any other labour disturbances and manufacturer's delays for equipment or materials required for the Networks Connection Work. The non-affected party shall be relieved of any obligation hereunder during the continuation of the event of Force Majeure.

If a party is prevented or delayed in the performance of any such obligation by Force Majeure, such party shall immediately provide notice to the other party of the circumstances preventing or delaying performance and the expected duration thereof. Such notice shall be confirmed in writing as soon as reasonably possible. The party so affected by the Force Majeure shall endeavour to remove the obstacles which prevent performance and shall resume performance of its obligations as soon as reasonably practicable, except that there shall be no obligation on the party so affected by the Force Majeure where the event of Force Majeure is a strike, lockout or other labour disturbance.

#### Part H: General

- 29. No amendment, modification or supplement to the Agreement shall be valid or binding unless set out in writing and executed by the parties with the same degree of formality as the execution of the Agreement.
- 30. The failure of any party hereto to enforce at any time any of the provisions of the Agreement or to exercise any right or option which is herein provided shall in no way be construed to be a waiver of such provision or any other provision nor in any way affect the validity of the Agreement or any part hereof or the right of any party to enforce thereafter each and every provision and to exercise any right or option. The waiver of any breach of the Agreement shall not be held to be a waiver of any other or subsequent breach. Nothing shall be construed or have the effect of a waiver except an instrument in writing signed by a duly authorized officer of the party against whom such waiver is sought to be enforced which expressly waives a right or rights or an option or options under the Agreement.
- 31. Each party acknowledges and agrees that it has participated in the drafting of the Agreement and that no portion of the Agreement shall be interpreted less favourably to either party because that party or its counsel was primarily responsible for the drafting of that portion.
- 32. Any written notice required by the Agreement shall be deemed properly given only if either mailed or delivered to the Secretary, Hydro One Networks Inc., 483 Bay Street, South Tower, 10<sup>th</sup> Floor, Toronto, Ontario M5G 2P5, fax no: (416) 345-6240 on behalf of Hydro One, and to the person at the address specified in Schedule "A" of the Agreement on behalf of the Customer.

A faxed notice will be deemed to be received on the date of the fax if received before 3 p.m. or on the next business day if received after 3 p.m. Notices sent by courier or registered mail shall be deemed to have been received on the date indicated on the delivery receipt. The designation of the person to be so notified or the address of such person may be changed at any time by either party by written notice.

33. The Agreement shall be construed and enforced in accordance with, and the rights of the parties shall be governed by, the laws of the Province of Ontario and the laws of Canada applicable therein, and, subject to Section 19, the courts of Ontario shall have exclusive jurisdiction to determine all disputes arising out of the Agreement.

- 34. The Agreement may be executed in counterparts, including facsimile counterparts, each of which shall be deemed an original, but all of which shall together constitute one and the same agreement.
- 35. The Customer shall provide Networks with a copy of the Customer's final monthly bills associated with Networks' Facilities and/or the Customer's Facilities or authorize the IMO to provide Networks with same. Networks agrees to use this information solely for the purpose of the Agreement.
- 36. The obligation to pay any amount due and payable hereunder, including, but not limited to, any amounts due under Sections 12, 13, 14, 15 or 16 shall survive the termination of the Agreement.
- 37. Each of the Parties hereto agrees to be bound by the terms of Appendix "D" attached hereto.

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#### Appendix "A": Definitions

Throughout the Agreement, unless there is something in the subject matter or context inconsistent therewith, the following words shall have the following meanings:

- "Actual Cost" means Networks' charge for equipment, labour and materials at Networks' standard rates plus Networks' standard overheads and interest thereon.
- "Actual Incremental Transformation Connection Revenue" means the actual amount of transformation connection revenue attributable to the Incremental Load received by Networks through the monthly collection of the Transformation Connection Service Rate for the period specified in Schedule "B" of the Agreement.
- "Actual Incremental Line Connection Revenue" means the actual amount of line connection revenue attributable to the incremental Load received by Networks through the monthly collection of the Line Connection Service Rate for the period specified in Schedule "B" of the Agreement.
- "Agreement" means the Connection Cost Recovery Agreement, Schedules "A" and "B" attached thereto and these Standard Terms and Conditions together with all appendices attached thereto.
- "Applicable Laws", means any and all applicable laws, including environmental laws, statutes, codes, licensing requirements, treaties, directives, rules, regulations, protocols, policies, by-laws, orders, injunctions, rulings, awards, judgments or decrees or any requirement or decision or agreement with or by any governmental or governmental department, commission board, court authority or agency.
- "Approval Date" means for the purpose of Subsection 6(f) of the Terms and Conditions, the date specified in Schedule "A" of the Agreement.
- "Available Capacity" is that portion of the existing capacity on Networks' Facilities that can effectively and economically serve the Customer's peak load and is as specified in Schedule "B" of the Agreement.
- "Base Load Trigger Point" is as specified in Schedule "B" of the Agreement and was determined using the following formula:
  - Base Load Trigger Point = 3 yr. Avg. PLI \* Available Capacity
  - PLI = [(sum of Twelve Monthly Peaks)/Annual Peak\*12]
- "Business Day" means a day other than Saturday, Sunday, statutory holiday in Ontario or any other day on which the principal chartered banks located in the City of Toronto, are not open for business during normal banking hours.
- "Capital Contribution" means the capital contribution amount or amounts specified in Schedule "B" of the Agreement.
- "Confidential Information" means:
- the terms of this Agreement and the operations and dealings under this Agreement;
- (ii) all information disclosed by a Party to the other Party under this Agreement or in negotiating this Agreement which by its nature is confidential to the Party disclosing the information; and
- (iii) all interpretative reports or other data generated by a Party that are based in whole or in part on information that is made Confidential Information by clauses (i) and (ii).

- "Connection Agreement" has the meaning set forth in the Transmission System Code.
- "Connection Point" means the point where the New or Modified Facility is connected to Networks' transmission system.
- "Cost" means Networks' charge for the Transformation Connection Pool Work Cost and/or the Line Connection Pool Work Cost as set. out in Schedule "B" of the Agreement.
- "Customer Connection Work" means the work to be performed by the Customer, at its sole expense, which is described in Schedule "A" of the Agreement.
- "Customer's Facilities" has the meaning set forth in the Transmission System Code, and includes, but is not limited to the New or Modified Facility where the New or Modified Facility is owned by the Customer. In addition to the foregoing, Customer's Facilities may include any other assets specified in Schedule "A" of the Agreement.
- "Customer's Property(ies)" means any lands owned by the Customer in fee simple or where the Customer has easement rights.
- "Distribute" has the meaning ascribed thereto in the *Electricity Act.* 1998.
- "Emergency" has the meaning set forth in the Transmission System Code.
- "Good Utility Practice" has the meaning set forth in the Transmission System Code.
- "Guaranteed Incremental Transformation Connection Revenue" means the minimum amount of transformation connection revenue specified in Schedule "B" attributable to the Load to be received by Networks through the monthly collection of the Transformation Connection Service Rate for the period specified in Schedule "B".
- "Guaranteed Incremental Line Connection Revenue" means the minimum amount of line connection revenue specified in Schedule "B" of the Agreement attributable to the Load to be received by Networks through the monthly collection of the Line Connection Service Rate for the period specified in Schedule "B" of the Agreement.
- "Guaranteed Revenue Date" means, for the purposes of Section 2 of the Terms and Conditions, the date specified in Schedule "B" of the Agreement.
- "IMO Rules" means the Independent Market Operator (IMO) administered Market Rules, including, but not limited to Chapter 6 thereof.
- "In Service Date" means the date that the IMO has approved the final connection of the New or Modified Facility.
- "Incremental Load" is determined using the following formula:
- [(sum of Twelve Monthly Peaks) (Base Load Trigger Point \*12]
- "Line Connection Pool" is as defined or referenced in Networks' transmission rate schedules approved by the OEB on May 1, 2002.
- "Line Connection Service Rate" means Networks' line connection service rate approved by the OEB from time to time, or any mechanism instituted in accordance with Section 19).

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"Material" relates to the essence of the contract, more than a mere annoyance to a right, but an actual obstacle preventing the performance or exercise of a right.

"Networks Connection Work" means the work to be performed by Networks which is described in Schedule "A" of the Agreement.

"Networks' Facilities" means collectively the Networks' Facilities - LV and the Networks' Facilities - HV.

"Networks' Facilities - HV" means the facilities owned by Networks specified in Schedule "A" of the Agreement that convey electricity at voltages of more than 50 kilovolts.

"Networks' Facilities - LV" means the facilities owned by Networks specified in Schedule "A" of the Agreement that convey electricity at voltages of 50 kilovolts or less.

"Networks' Property(ies)" means any lands owned by Networks in fee simple or where Networks now or hereafter has obtained easement rights.

"New or Modified Facility" means the facilities specified in Schedule "A" of the Agreement.

"OEB" means the Ontario Energy Board.

"Pool" means the Transformation Connection Pool or the Line Connection Pool.

"Premium Costs" means those costs incurred by Networks in order to maintain or advance the Ready for Service Date, including, but not limited to, additional amounts expended for materials or services due to short time-frame for delivery; and the difference between having Networks' employees, agents and contractors perform work on overtime as opposed to during normal business hours.

"Ready for Service Date" means the date upon which the Networks Connection Work is fully and completely constructed, installed, commissioned and energised to the Connection Point. The Customer's disconnect switches must be commissioned prior to this date in order to use them as isolation points.

"Third Party Facilities" means any and all equipment, elements, and facilities of any kind whatsoever owned by someone other than the parties to this connection agreement and that are connected to Networks' transmission system.

"Transformation Connection Pool" is as defined or referenced in Networks' transmission rate schedules approved by the OEB on May 1, 2002.

"Transformation Connection Service Rate" means Networks' transformation connection service rate approved by OEB from time to time, or any mechanism instituted in accordance with Section 19).

"Transmission Rate" has the meaning set forth in the form of Connection Agreement attached to the Transmission System Code.

"Transmission System Code" means the code of standards and requirements issued by the OEB on July 14, 2000, as it may be amended from time to time, setting forth mandatory terms, conditions and obligations regarding connections between the facilities of distributors and the facilities of transmitters in accordance with the requirements of the Ontario Energy Board Act, 1998, including mandatory required terms and conditions for Connection Agreements.

"Transmit" has the meaning ascribed thereto in the Electricity Act, 1998.

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#### Appendix "B": Access Provisions

- 1. When the Customer's staff, its contractors, or agents work at Networks' Facilities or site, Networks' safety and environmental requirements shall be observed by such staff, contractors and agents. As a minimum, all Applicable Laws shall govern such work.
- The Customer's staff, its contractors, or agents working at Networks' Facilities or site shall be qualified to work around electrical hazards.
- 3. The Customer's staff, its contractors, or agents shall be entitled to access Networks' Facilities or site, and Networks will grant such access, to carry out work at all reasonable times on reasonable prior notice to Networks, subject to Networks' policies and procedures.
- 4. If the Customer wishes to have access to Networks' Facilities, the Customer shall notify Networks of the particular work to be undertaken and of the date and time when it proposes to access the relevant Facilities, subject to Networks' policies and procedures. Networks shall not unreasonably withhold access to its Facilities.
- 5. At any time when the Customer or its representatives are on or in Networks' site, the Customer and its representatives shall:
- (a) use all reasonable precautions not to damage or interfere with Networks' site and Facilities;
- (b) observe Networks' requirements for reporting occupational health and safety, electrical safety, environmental requirements, technical requirements, and matters of industrial relations; and
- (c) neither ask questions, nor give any direction, instruction or advice to any person involved in operating or maintaining Networks' site or Facilities, other than the person whom Networks has designated for that purpose.
- 6. If the Customer or its representatives cause any loss or damage when given access to Networks', the Customer or its representative shall promptly advise Networks' controlling authority of the loss or damage.
- 7. The Customer shall not, and shall ensure that its representatives do not, intentionally interfere with any of Networks' Facilities in or on its sites. The Customer shall use reasonable efforts not to cause loss or damage to Networks' Facilities. If the Customer interferes with any of Networks' Facilities, it shall indemnify Networks for reasonable costs and expenses incurred from any resulting loss or damage.
- 8. In an emergency, Networks may, as far as reasonably necessary in the circumstances, have access to and interfere with the Customers' Facilities. Networks shall use reasonable efforts not to cause loss or damage to the Customer's Facilities. If Networks interferes with any of the Customer's Facilities, it shall indemnify the Customer for reasonable costs and expenses incurred from any resulting loss or damage.
- 9. Where the Customer requests assistance from Network beyond routine OM&A activities, the Customer shall pay Networks its Actual Costs related to the Customer's staff, contractors or agents accessing Network's Facilities or sites, including, but not limited to, the cost of having a Networks representative accompany the Customer's staff, contractors, or agents accessing Network's Facilities or sites in accordance with the invoices rendered by Networks.

- 10. The Customer shall indemnify and save harmless Networks from and against all liabilities, damages, suits, claims, demands, costs, actions, proceedings, causes of action, losses, expenses and injury (including death) of any kind or nature whatsoever (the "causes of action") resulting from, caused by or in any manner connected with installed Customer equipment on Networks' Facilities or sites or Customer's staff, its contractors, or agents accessing Network' Facilities or sites including, but not limited to:
- (a) causes of actions arising out of health and safety violations or environmental spills;
- (b) costs incurred by Networks having to pay other customers due to interruptions caused by the Customer;
- (c) damage to Networks equipment;
- (d) incremental costs and expenses incurred by Networks related to the Customer's equipment installations, removals, relocations, upgrades, or any other Customer work.

except to the extent that the "causes of action" are caused by the negligence or willful misconduct of Networks.

11. Where Networks staff, contractors, or agents require access to the Customer's Facilities or site, clauses 1 to 10 will apply reciprocally.

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Appendix	"C"	:	Form	of	Easement
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INTEREST / ESTATE TRANSFERRED

The Transferor is the owner in fee simple and in possession of					
	(the "Lands").				

The Transferee has erected, or is about to erect, certain Works (as more particularly described in paragraph 1(a) hereof) in, through, under, over, across, along and upon the Lands.

The Transferor hereby grants and conveys to Hydro One Networks Inc, its successors and assigns the rights and easement, free from all encumbrances and restrictions, the following unobstructed and exclusive rights, easements, rights-of-way, covenants, agreements and privileges in perpetuity (the "Rights") in, through, under, over, across, along and upon that portion of the Lands of the Transferor described herein and shown highlighted on Schedule "A" hereto annexed (the "Strip") for the following purposes:

- To enter and lay down, install, construct, (a) erect, maintain, open, inspect, add to, enlarge, alter, repair and keep in good condition, move, remove, replace, reinstall, reconstruct, relocate, supplement and operate and maintain at all times in, through, under, over, across, along and upon the Strip an electrical transmission system and telecommunications system consisting in both instances of a pole structures, steel towers, anchors, guys and braces and all such aboveground or lines, wires, cables, underground telecommunications cables, grounding electrodes, conductors, apparatus, works, accessories, associated material and equipment, and appurtenances pertaining to or required by either such system (all or any of which are herein individually or collectively called the "Works") as in the opinion of the Transferee are necessary or convenient thereto for use as required by Transferee in its undertaking from time to time, or a related business venture.
- (b) To enter on and selectively cut or prune, and to clear and keep clear, and remove all trees (subject to compensation to Owners for merchantable wood values), branches, bush and shrubs and other obstructions and materials in, over or upon the Strip, and without limitation, to cut and remove all leaning or decayed trees located on the Lands whose proximity to the Works renders them liable to fall and come in contact with the Works or which may in any way interfere with the safe, efficient or serviceable operation of the Works or this easement by the Transferee.
- (c) To conduct all engineering, legal surveys, and make soil tests, soil compaction and environmental studies and audits in, under, on and over the Strip as the Transferee in its discretion considers requisite.

(d) To erect, install, construct, maintain, repair and keep in good condition, move, remove, replace and use bridges and such gates in all fences which are now or may hereafter be on the Strip as the Transferee may from time to time consider necessary.

- Except for fences and permitted paragraph (e) 2(a) installations, to clear the Strip and keep it clear of all buildings, structures, erections, installations, or other obstructions of any nature (hereinafter collectively called the "obstruction") whether above or below ground, including removal of any materials and equipment or plants and natural growth, which in the opinion of the Transferee, endanger its Works or any person or property or which may be likely to become a hazard to any Works of the Transferee or to any persons or property or which do or may in any way interfere with the safe, efficient or serviceable operation of the Works or this easement by the Transferee.
- (e) To enter on and exit by the Transferor's access routes and to pass and repass at all times in, over, along, upon and across the Strip and so much of the Lands as is reasonably required, for Transferee, its respective officers, employees, agents, servants, contractors, subcontractors, workmen and permittees with or without all plant machinery, material, supplies, vehicles and equipment for all purposes necessary or convenient to the exercise and enjoyment of this easement and
- (f) To remove, relocate and reconstruct the line on or under the Strip.

#### 2. The Transferor agrees that:

It will not interfere with any Works established on or in the Strip and shall not, without the Transferee's consent in writing, erect or cause to be erected or pennit in, under or upon the Strip any obstruction or plant or permit any trees, bush, shrubs, plants or natural growth which does or may interfere with the Rights granted herein. The Transferor agrees it shall not, without the Transferee's consent in writing, change or permit the existing configuration, grade or elevation of the Strip to be changed and the Transferor further agrees that no excavation or opening or work which may disturb or interfere with the existing surface of the Strip shall be done or made unless consent therefore in writing has been obtained from Transferee, provided however, that the Transferor shall not be required to obtain such реппission in case of emergency. Notwithstanding the foregoing, in cases where in the reasonable discretion of the Transferee, there is no danger or likelihood of danger to the Works of the Transferee or to any persons or property and the safe or serviceable operation of this easement by the Transferee is not interfered with, the

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Transferor may at its expense and with the prior written approval of the Transferee, construct and maintain roads, lanes, walks, drains, sewers, water pipes, oil and gas pipelines, fences (not to exceed 2 metres in height) and service cables on or under the Strip (the "Installation") or any portion thereof; provided that prior to commencing such Installation, the Transferor shall give to the Transferee thirty (30) days notice in writing thereof to enable the Transferee to have a representative present to inspect the proposed Installation during the performance of such work, and provided further that Transferor comply with all instructions given by such representative and that all such work shall be done to the reasonable satisfaction of such representative. In the event of any unauthorised interference aforesaid or contravention of this paragraph, or if any authorised interference, obstruction or Installation is not maintained in accordance with the Transferee's instructions or in the Transferee's reasonable opinion, may subsequently interfere with the Rights granted herein, the Transferee may at the Transferor's expense, forthwith remove, relocate, clear or correct the offending interference, obstruction, Installation or contravention complained of from the Strip, without being liable for any damages caused thereby.

- (b) notwithstanding any rule of law or equity, the Works installed by the Transferee shall at all times remain the property of the Transferee, notwithstanding that such Works are or may become annexed or affixed to the Strip and shall at anytime and from time to time be removable in whole or in part by Transferee.
- (c) no other easement or permission will be transferred or granted and no encumbrances will be created over or in respect to the Strip, prior to the registration of a Transfer of this grant of Rights.
- (d) the Transferor will execute such further assurances of the Rights in respect of this grant of easement as may be requisite.
- (e) the Rights hereby granted:
  - (i) shall be of the same force and effect to all intents and purposes as a covenant running with the Strip.
  - (ii) is declared hereby to be appurtenant to and for the benefit of the Works and undertaking of the Transferee described in paragraph 1(a).
- 3. The Transferee covenants and agrees to obtain at its sole cost and expense all necessary postponements and subordinations (in registrable form) from all current and future prior encumbrancers, postponing their respective rights, title and interests to the Transfer of Easement herein so as to place such

Rights and easement in first priority on title to the fands.

- 4. There are no representations, covenants, agreements, warranties and conditions in any way relating to the subject matter of this grant of Rights whether expressed or implied, collateral or otherwise except those set forth herein.
- No waiver of a breach or any of the covenants of this
  grant of Rights shall be construed to be a waiver of
  any succeeding breach of the same or any other
  covenant.
- 6. The burden and benefit of this transfer of Rights shall run with the Strip and the Works and undertaking of the Transferee and shall extend to, be binding upon and enure to the benefit of the parties hereto and their respective heirs, executors, administrators, successors and assigns.

CHARGEES

	GEE of land described in a Charge/Mo	ortgage of Land
and registered	as Instrument Number	
on		does
hereby conse	ent to this Easement and releases and sement herein from the said	
Charge/Morts	gage of Land.	
Name	Signature(s) Date of Signatures	
	Y Q	М
	Per:	

I/We have authority to bind the Corporation

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#### Appendix "D": Confidentiality

- 1. Confidential Information shall at all times be treated as confidential, and shall be prepared, given, and used in good faith. The Parties shall use the Confidential Information only for the requirements of the work being performed including, but not limited to, planning or operating the Parties' Connection Facilities or Transmission Systems, and not for any other purpose, and shall not disclose it to any third party, directly or indirectly, without the prior written consent of the Party that provided the Confidential Information, and in such events the third party shall agree to use the Confidential Information solely for the requirements of the work as specified. Confidential Information shall not be used for any commercial purpose of any kind whatsoever other than contemplated herein
- 2. "Confidential Information" does not include:
- (a) information that is in the public domain, provided that specific items of information shall not be considered to be in the public domain merely because more general information is in the public domain and provided that the information is not in the public domain as a result of a breach of confidence by the Party seeking to disclose the information or a person to whom it has disclosed the information;
- (b) information that is, at the time of the disclosure, in the possession of the recipient, provided that it was lawfully obtained either from the other Party or from sources, who did not acquire it directly or indirectly from the other Party under an obligation of confidence; and
- (c) information that must be disclosed in compliance with a judicial or governmental order or other legal process.
- 3. Each Party shall keep Confidential Information confidential except:
  - (a) as may be necessary in an Emergency;
  - (b) to the extent required by applicable law;
  - (c) if required in connection with legal proceedings, arbitration or any expert determination relating to the subject matter of this Agreement, or for the purpose of advising a Party in relation thereto;
  - (d) to the extent required by the Party's licence; or
  - (e) to the extent required by the Market Rules or as may be required to enable a Party to fulfill its obligation to any reliability organization.
- 4. The Parties shall make any information required to be provided or communicated under the terms of this Agreement available to each other in a timely and co-operative manner.
- 5. The confidentiality provisions of this Schedule "D" will continue and survive for a period of 6 years after the termination of this Agreement.
- 6. Except as provided in this Agreement, each party acknowledges and agrees that it cannot disclose any Confidential Information of the other party (the "Disclosing Party") to anyone, including the OEB, without the consent of the Disclosing Party, which shall not be unreasonably withheld.

Notwithstanding the foregoing, each Party acknowledges and agrees that it can disclose the any confidential information with respect to the costs identified herein to the OEB as part of and for the purpose of making an application to the OEB, participating in any OEB hearings or making an appeal to a Court of competent jurisdiction regarding any decision of the OEB, provided that the

- (i) requests that the OEB hold the Confidential Information in confidence in accordance with Section 3 of the OEB's "Guidelines for the Treatment of Filings made in Confidence Phase 1" (effective March 19, 2001) (the "Guidelines"). Notwithstanding the generality of the foregoing, it is understood that:
- (aa) the Customer will provide Networks with 10 business days prior written notice of its intention to file an application to the OEB which will include Confidential Information. The aforementioned notice will list the Confidential Information being filed by the Customer and Networks shall provide the Customer with:
  - a letter signed by a duly authorized signing officer of Networks providing a full explanation of the need for considering the Confidential Information confidential; and
  - 2) the documentation required to be filed by the Customer under c) and d) of Section 3.2.1 of the Guidelines, where possible, with respect to the Confidential Information. Where it is not possible for Networks to provide an abridged version of one or more of the documents comprising the Confidential Information, Networks will provide an explanation in the letter described in Subsection 6(aa)1) as to why it is not possible to provide the abridged version(s).
- (bb) the Customer will file any documentation provided by Networks under Subsection 6(c)(aa) with its application provided that Networks provides same to the Customer by no later than 10 business days following Networks' receipt of the notice of intention to file an application to the OEB.
- (cc) the Customer's cover letter to the Board referenced in Subsection 3.2.1(b) of the Guidelines will include the following wording:
  - [the Customer] and Hydro One Networks Inc. are parties to an agreement that contains obligations of confidence with respect to information that Hydro One Networks Inc. considers confidential. The documentation that [the Customer] is requesting that the Ontario Energy Board hold in confidence is information that is protected by the aforementioned agreement. As such, [the Customer] is contractually bound to seek such protection. Attached to this letter is a letter signed by a duly authorized signing officer of Hydro One Networks Inc. providing a full explanation of the need for considering the documentation confidential.
- (dd) if a panel hears or chooses to have a Panel of Board Members (a "Panel") make a determination on the issue of confidentiality, the Customer shall request that the Board permit Networks to be a party so as to be able to make submissions with respect to the Confidential Information.
- (ee) the Customer shall not make submissions to the OEB or any panel of the OEB requesting or supporting any request that the Confidential Information be made public.

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(ff) if a Panel determines that any of the documents comprising Confidential Information should be made public, Networks will have the right to appeal, or to request a rehearing or a judicial review of the determination in accordance with Section 3.7.1 of the Guidelines.

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## **GTA West Supply Study**

Adequacy of Transmission Facilities

And

Transmission Supply Plan 2005 – 2015

February 16, 2006

GTA West Supply Study February 16, 2006 Enersource Hydro Mississauga Inc.
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#### **Foreword**

This report is the result of a joint study by Enersource Hydro Mississauga, Halton Hills Hydro Inc., Hydro One Brampton, Hydro One Networks Inc. Distribution, Milton Hydro and Hydro One Networks Inc. Transmission. The study team members were:

Paul Cook, Hydro One Networks
Gary Ebersberger, Halton Hills Hydro Inc.
Dave Haddock, Hydro One Brampton
Charlie Lee, Hydro One Networks Distribution

Richard Murray, Milton Hydro Distribution Inc. Eva Ping, Hydro One Networks Vaffi Poonja, Enersource Hydro Mississauga Christine Spears, Hydro One Networks

The load forecast is based on information available to Enersource Hydro Mississauga, Hydro One Brampton, Toronto Hydro Electric System, Halton Hills Hydro, Milton Hydro and Hydro One-Distribution.

The preferred plans have been selected and endorsed based primarily on technical considerations. Where applicable, these plans will be subject to Environmental Assessment approval and / or Ontario Energy Board (OEB) approval. The issue of cost allocation between utilities was not addressed.

#### **Signatures**

We have reviewed this report and concur with its recommendations. This endorsement shall not operate as a waiver of any participant's rights due to material changes in load forecasts or economic considerations.

Utility	Signature	Title
Enersource Hydro		Roland Herman
Mississauga		Executive VP & Chief Operating Officer
Halton Hills Hydro Inc.		Dan Guatto
		President
Hydro One Brampton		Roger Albert
		President
Hydro One Networks		Ron Salt
Inc Distribution		Manager, Distribution Development
Hydro One Networks		John Sabiston
Inc. – Transmission		Team Leader/ Senior Advisor
Milton Hydro		Don Thorne
Distribution Inc.		President & CEO

Date: February 16, 2006

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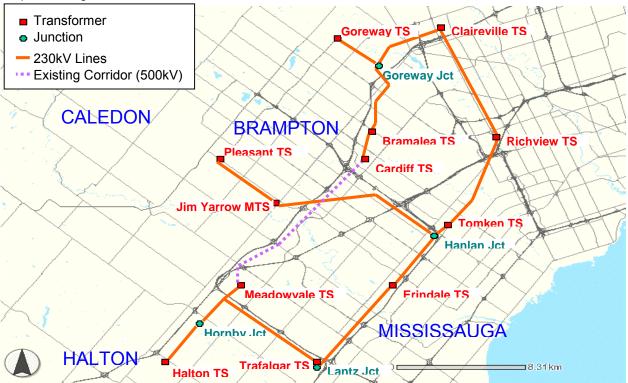
#### **EXECUTIVE SUMMARY**

#### Background

For the purpose of this study, Greater Toronto Area (GTA) West includes the area roughly bordered geographically by Highway 27 to the east, King Street to the north, Regional Road 25 to the west and Highway 403/407 to the south. Much of the study area is Peel Region, with a small section of both Halton Region and Toronto.

The electrical supply in this area is provided through 500 kV and 230 kV transmission lines and step down transformation facilities as shown in Map 1. The distribution system within this area is at two different voltage levels, 44 kV and 27.6 kV. Load forecasts provided by the Local Distribution Companies (LDCs) in GTA West indicate that electrical load growth is expected to continue at a summer average rate of 2.6% per year at the 27.6 kV sub-transmission level and 1.5% per year at the 44 kV sub-transmission level, for the next ten years.

Map 1: Existing Transmission Facilities in GTA West.



In June of 2004, a joint utility planning study was initiated between five of the six LDCs in GTA West and Hydro One Networks Inc. - Transmission. The LDC participants in this joint study were:

- ♦ Enersource Hydro Mississauga (EHM)
- ♦ Halton Hills Hydro Inc. (HHH)
- Hydro One Brampton (HOB)
- ◆ Hydro One Networks Inc. Distribution (HONI Dx)
- Milton Hydro Distribution Inc. (MHD)

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This study identified the need for transmission capacity and voltage stability in GTA West, and assessed the capability of the transmission system to meet the load requirements for the 10 year study period (from 2005 to 2015). An additional assessment for expected 2024 conditions was also undertaken to evaluate the proposed plans with respect to the long-term system requirements and identify potential gaps. Several transmission alternatives were investigated to address the needs and deficiencies as soon as practical.

#### Need

The needs assessed in this study were evaluated and identified based on the occurrence of a single contingency.

#### Station Overloads (230/27.6 kV)

- ◆ Transformers T1/T2 at Bramalea Transmission Station (TS) are currently exceeding their summer capacity limit¹ (2005)
- ◆ Transformers T1/T2 at Erindale TS are currently exceeding their summer capacity limit (2005)
- ◆ Transformers T5/T6 at Pleasant TS are currently loaded to their summer capacity limit (2005)
- ◆ Transformers T1/T2 at Jim Yarrow Municipal Transmission Station (MTS) are expected to exceed their summer capacity limit by summer 2009²
- ◆ Transformers T5/T6 at Goreway TS are expected to reach their summer capacity limit by summer 2011³
- ◆ Transformers T3/T4 at Halton TS are expected to reach their summer capacity limit by summer 2011

#### Station Overloads (230/44 kV)

- ◆ Transformers T1/T2 at Meadowvale TS are currently exceeding their summer capacity limits (2005)
- ◆ Transformers T3/T4 and T5/T6 at Erindale TS are expected to exceed their summer capacity limit by summer 2006<sup>4</sup>
- ◆ Transformers T1/T2 at Pleasant TS are expected to exceed their summer capacity limits by summer 2011

#### Voltage Deficiencies

◆ Meadowvale TS is currently experiencing voltage deficiencies during periods of high summer loading and is below Operating and Planning Standards<sup>5</sup>

#### Circuit Overloads

- ♦ Segments of circuits R19T/R21T are expected to reach thermal capacity limits as per Operating and Planning Standards by summer 2009
- ♦ Segments of circuits T38B/T39B are expected to be nearing thermal capacity limits as per Operating and Planning Standards by summer 2015

<sup>&</sup>lt;sup>1</sup> "summer capacity limit" is discussed in Section 2.

<sup>&</sup>lt;sup>2</sup> Jim Yarrow MTS forecast includes load transfers from Bramalea TS (transformers T1/T2) and Pleasant TS (transformers T5/T6).

<sup>&</sup>lt;sup>3</sup> Goreway TS (transformers T5/T6) forecast includes load transfers from Bramalea TS (transformers T1/T2).

<sup>&</sup>lt;sup>4</sup> Erindale TS (T3/T4, 230/44 kV) will experience unacceptable voltage decline before transformers reach capacity, while transformers T5/T6 will be at the transformer capacity limit.

<sup>&</sup>lt;sup>5</sup> Please refer to Section 5 for details on Operating and Planning Standards.

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#### Forced Load Transfers

Due to the rapid load growth in this area, and the lack of local transmission resources, several stations have been and/or will be forced to designate cascading load transfers to other stations in order to mitigate operating risks until further capacity can be supplied.

This study was conducted under the assumption that by 2005 additional station capacity would be provided by a new TS (Cardiff TS coming into service in May 2005). Some immediate load relief is possible via load transfers between stations operating at the same sub-transmission voltage levels, however the load growth in this area is such that new step down facilities will be required before 2007. Load transfers between different sub-transmission voltage levels are either not technically possible or economically prohibitive.

#### **Recommended Transmission Reinforcements**

A number of options were considered to address the needs as indicated above, and after a thorough technical analysis and review, the following recommendations were made:

- ◆ Install by summer 2007 Low Voltage (LV) capacitors at Meadowvale TS (2 capacitor banks, 32.4 MVAR at 46 kV)
- For short-term relief and as they become necessary, perform load transfers:
  - From Bramalea TS (T1/T2, 230/27.6 kV) to Goreway TS (T5/T6, 230/27.6 kV) and Jim Yarrow MTS (T1/T2, 230/27.6 kV)
  - From Pleasant TS (T5/T6, 230/27.6 kV) to Jim Yarrow MTS (T1/T2, 230/27.6 kV)
  - From Erindale TS (T1/T2, 230/27.6 kV) to Cardiff TS (T1/T2, 230/27.6 kV)
  - From Meadowvale TS (T1/T2, 230/44 kV) to Erindale TS (T3/T4, 230/44 kV)
- ♦ Construct by summer 2008 Winston TS with two 230/44 kV, 75/125 MVA transformers in the vicinity of Winston Churchill Blvd. and Highway 403
- ♦ Extend by summer 2009 circuits V72R and V73R from Cardiff TS to the Pleasant TS tap and construct Hurontario Switching Station (SS). Radially re-supply Jim Yarrow MTS from this SS
- ♦ Construct by summer 2009 Pleasant TS #3 with two 230/27.6 kV, 75/125 MVA transformers on the existing Pleasant TS site
- ♦ Construct by summer 2011 Goreway TS #2 with two 230/27.6 kV, 75/125 MVA transformers on the existing Goreway TS site
- Install by summer 2011 a second 230/44 kV, 50/83 MVA transformer at Goreway TS
- ♦ Construct by summer 2011 either Steeles TS or James Snow TS with two 230/27.6 kV, 50/83 MVA transformers. The Steeles TS location would be in the vicinity of Steeles Avenue and Trafalgar Road while the James Snow TS location would be in the vicinity of Steeles Avenue and James Snow Parkway

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#### Recommendations

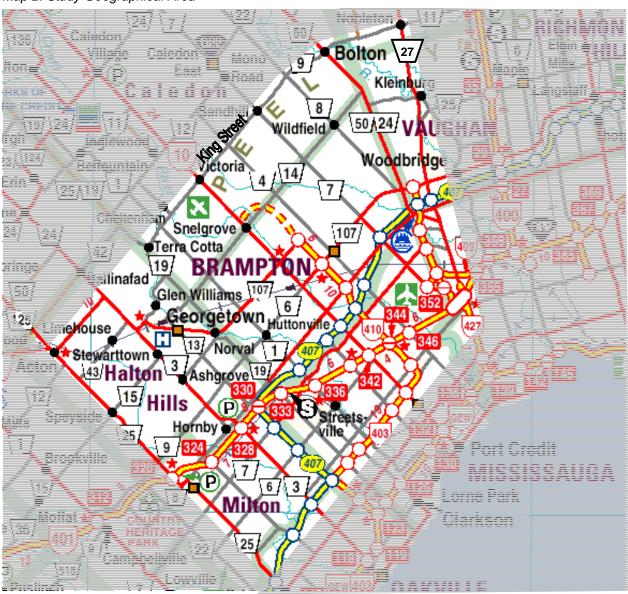
Several recommendations can be drawn from this study to address the current system deficiencies and provide system capacity to meet forecasted load growth. These recommendations are:

- 1. Subject to the Ontario Power Authority's integrative review (Integrated Power System Plan) Hydro One Networks Inc. to initiate the approval processes required for the extension of circuits V72R and V73R and the construction of Hurontario SS.
- 2. Hydro One Networks Inc. to commence the detailed specification and engineering of the LV capacitors at Meadowvale TS.
- 3. Hydro One Networks Inc. to commence the preliminary engineering and consultation with the LDCs, and to initiate the approval processes on the construction of a new TS, Winston TS, in the vicinity of Winston Churchill Blvd. and Highway 403 in Mississauga.
- 4. The LDCs to continue to transfer loads as necessary to mitigate potential operating risks until transmission capacity is established.
- 5. The LDCs to continue to monitor load growth in the GTA West area and to review options for long-term growth based on the location of new developments and load forecasts.

#### 1. Introduction

For the purpose of this study, Greater Toronto Area (GTA) West includes the area roughly bordered by Highway 27 to the east, King Street to the north, Regional Road 25 to the west and Highways 403/407 to the south (refer to Map 2). Much of the study area is Peel Region, with a small section of both Halton Region and Toronto.

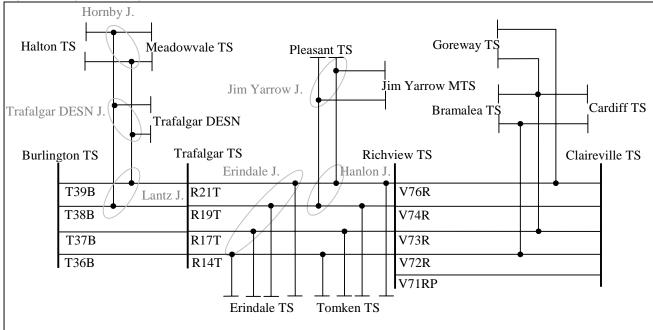
Map 2: Study Geographical Area<sup>6</sup>



Electrical supply in this area is provided through 500 kV and 230 kV transmission lines and step down transformation facilities (Transmission Station, TS; Municipal Transmission Station, MTS) as shown in Map 1 and Figure 1.

<sup>&</sup>lt;sup>6</sup> Map clip from <a href="http://www.mto.gov.on.ca/english/traveller/map/images/pdf/southont/sheets/Map3.pdf">http://www.mto.gov.on.ca/english/traveller/map/images/pdf/southont/sheets/Map3.pdf</a>





The northern Mississauga and Brampton area is expected to have a large rate of load growth for the upcoming years as a result of population growth and development projects taking place in this area. Load growth trends in this area indicate that recent transmission upgrades and newly built or planned stations, including the construction of Jim Yarrow MTS and Cardiff TS, will not be able to provide the required transformation capacity. For this reason, in June 2004, five of the six Local Distribution Companies (LDCs) in GTA West and Hydro One initiated a joint study.

The purpose of this joint study was to assess the load growth in GTA West and ensure that adequate transmission and connection facilities will be available to meet the electrical demand requirements over the upcoming decade, 2005 to 2015.

Six Local Distribution Companies (LDCs) own and operate assets in the specified study area. These companies are:

- Enersource Hydro Mississauga (EHM)
- ♦ Halton Hills Hydro Inc. (HHH)
- ♦ Hydro One Brampton (HOB)
- ◆ Hydro One Networks Inc. Distribution (HONI Dx)
- ♦ Milton Hydro Distribution Inc. (MHD)
- Toronto Hydro Electric System (THES)

With the exclusion of Toronto Hydro Electric System<sup>7</sup>, the above listed LDCs participated in this joint study.

<sup>&</sup>lt;sup>7</sup> Toronto Hydro Electric System did not participate in this study beyond providing load forecasts, as their asset locations and circumstances are such that they are able to resolve capacity issues via load transfers between various transmission facilities within their jurisdiction.

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#### 2. EXISTING TRANSMISSION SYSTEM AND NEEDS

GTA West is supported by two main 500/230 kV TSs (Claireville TS and Trafalgar TS) transforming electricity from 500 kV to 230 kV, and one 230 kV electrical system hub (Richview TS).

There are ten step-down transmission facilities that were analyzed in this study. These stations step the transmission voltage of 230 kV down to a sub-transmission level, either 27.6 kV or 44 kV, for distribution of electricity to the end-use customer. Table 1 lists the stations and their associated step-down transformer voltage capability. Four of the ten existing TSs (Bramalea TS, Erindale TS, Goreway TS and Pleasant TS) in the study area have the ability to step-down to both sub-transmission voltages. The remaining stations are only able to step-down to one sub-transmission voltage.

Table 1: Transmission Step-down Facilities Within GTA West

Station	230 / 27.6 kV	230 / 44 kV
Bramalea TS	Transformers T1/T2	Transformers T3/T4 and T5/T6
Cardiff TS	Transformers T1/T2	
Erindale TS	Transformers T1/T2	Transformers T3/T4 and T5/T6
Goreway TS	Transformers T5/T6	Transformer T4
Halton TS	Transformers T1/T2	
Jim Yarrow MTS	Transformers T1/T2	
Meadowvale TS		Transformers T1/T2
Pleasant TS	Transformers T5/T6	Transformers T1/T2
Richview TS	Transformers T1/T2, T5/T6 and T7/T8	
Tomken TS		Transformers T1/T2 and T3/T4

The above mentioned TSs are connected as follows (refer to Figure 1 and Map 1):

- Trafalgar TS and Richview TS are connected via four 230 kV circuits (R14T, R17T, R19T and R21T). Erindale TS and Tomken TS are tapped off of these circuits. Two radial extensions from R19T and R21T at Hanlon Junction supply Pleasant TS and Jim Yarrow MTS.
- 2. Richview TS and Claireville TS are connected via five 230 kV circuits (V71RP, V72R, V73R, V74R, V76R). Goreway TS, Bramalea TS and Cardiff TS are tapped off of these circuits.
- Meadowvale TS and Halton TS are supplied via two radial extensions from two 230 kV circuits (T38B and T39B) connecting Trafalgar TS and Burlington TS.

The study area was identified as summer critical<sup>8</sup>. Load forecasts provided by the LDCs indicate that electrical load growth is expected to continue at a summer average rate of 2.6% per year at the 27.6 kV sub-transmission level and 1.5 % per year at the 44 kV sub-transmission level, for the next ten years.

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<sup>&</sup>lt;sup>8</sup> Summer critical means less available margin between loading and applicable equipment ratings during this particular season.

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Some stations in the study area are already peaking above their summer capacity limit (Limited Time Rating, LTR)<sup>9</sup>, as well as experiencing voltage deficiencies related to high loading. The particular needs of this system were identified using a single contingency analysis. Those needs and the associated need dates are detailed below. Refer to Table 2 for a summary.

#### Station Overloads (230/27.6 kV)

- ◆ Transformers T1/T2 at Bramalea TS are currently exceeding their summer 10-day LTR (2005)
- ◆ Transformers T1/T2 at Erindale TS are currently exceeding their summer 10-day LTR (2005)
- ◆ Transformers T5/T6 at Pleasant TS are currently loaded to their summer 10-day LTR (2005)
- ◆ Transformers T1/T2 at Jim Yarrow MTS are expected to exceed their station summer 10day LTR by summer 2009<sup>10</sup>
- ◆ Transformers T5/T6 at Goreway TS are expected to reach their summer 10-day LTR by summer 2011<sup>11</sup>
- ◆ Transformers T3/T4 at Halton TS are expected to reach their summer 10-day LTR by summer 2011

#### Station Overloads (230/44 kV)

- ◆ Transformers T1/T2 at Meadowvale TS are currently exceeding their summer 10-day LTR (2005)
- ◆ Transformers T3/T4 and T5/T6 at Erindale TS are expected to exceed their summer 10-day LTR by summer 2006
- ◆ Transformers T1/T2 at Pleasant TS are expected to exceed their summer 10-day LTR by summer 2011

#### Voltage Deficiencies

 Meadowvale TS is currently experiencing voltage deficiencies during periods of high summer loading and is below Operating and Planning Standards (refer to Section 5 for definition of Operating and Planning Standards)

#### Circuit Overloads<sup>12</sup>

 Segments of circuits R19T/R21T are expected to reach summer thermal capacity limits as per Operating and Planning Standards (refer to section 5) by 2009

♦ Segments of circuits T38B/T39B are expected to be nearing summer thermal capacity limits as per Operating and Planning Standards by 2015

<sup>9</sup> For planning purposes, the LTRs, or thermal capacity limits, referred to in this study are emergency ratings for electrical equipment to acknowledge that equipment ratings can be exceeded for a certain length of time without causing undue stress on the equipment. For transformers, this is a 10-day LTR and for circuits or lines this is a 15-minute LTR immediate post fault, and continuous rating for steady state post fault.

<sup>&</sup>lt;sup>10</sup> Jim Yarrow MTS load growth forecast includes load transfers from Bramalea TS (T1/T2, 230/27.6 kV) and Pleasant TS (T5/T6, 230/27.6 kV).

<sup>&</sup>lt;sup>11</sup> Goreway TS (T5/T6) load growth forecast includes load transfers from Bramalea TS (T1/T2).

<sup>&</sup>lt;sup>12</sup> These circuit overloads were observed in a basecase loadflow with a Flow East Towards Toronto (FETT) transfer of approximately 3600 MW.

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Table 2: Summary of Transmission Needs and Need Dates

Year	27.6 kV Stations	44 kV Stations	Circuits
2005 (Present)	Bramalea TS (T1/T2) Erindale TS (T1/T2)	Meadowvale TS (T1/T2)	
	Pleasant TS (T5/T6)		
2006		Erindale TS (T3/T4 and T5/T6)	
2009	Jim Yarrow MTS (T1/T2)		R19T/R21T
2011	Goreway TS (T5/T6) Halton TS (T3/T4)	Pleasant TS (T1/T2)	

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#### 3. Load Growth

Load forecasts provided by LDCs in GTA West indicate that electrical load growth is expected to continue at a summer average rate of 2.6% per year for the next ten years at the 27.6 kV level and at 1.5% per year at the 44 kV level (refer to Table 3). More detailed load forecasts, including station capacity data, can be found in Appendix A.

Table 3: Forecast – Summer Peak Load (MW)

rabio e. r eredast eariine	e 3: Forecast – Summer Peak Load (MW)  Forecast Load in MW											
					Forec			n ivi vv				
230/27.6 kV Stations	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
1. Bramalea TS <sup>1,2,3</sup>	193	174	175	177	179	181	183	183	184	184	184	
2. Cardiff TS <sup>1</sup>	0	101	103	105	107	110	112	112	112	113	113	
3. Erindale TS <sup>1,4</sup>	233	167	170	174	177	181	185	185	186	187	187	
4. Goreway TS <sup>3</sup>	148	155	163	170	177	184	192	200	208	216	224	
5. Halton TS	97	114	131	149	162	166	170	175	179	183	188	
6. Jim Yarrow MTS <sup>2</sup>	95	100	113	125	138	152	166	180	196	211	225	
7. Pleasant TS <sup>2</sup>	198	198	198	198	198	198	198	198	198	198	198	
8. Richview TS	354	362	364	368	371	374	377	380	385	388	392	
Total:	1318	1371	1418	1466	1509	1546	1582	1614	1647	1680	1710	Avg.
Growth Rate:		4.0%	3.4%	3.4%	3.0%	2.4%	2.4%	2.0%	2.1%	2.0%	1.8%	2.6%
230/44 kV Stations	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	l
1. Bramalea TS <sup>1,2,3</sup>	179	184	188	192	196	201	205	210	215	220	224	
2. Goreway TS <sup>3</sup>	28	29	30	31	32	34	35	36	37	39	40	
3. Erindale TS <sup>1,4</sup>	360	374	384	394	405	415	425	427	429	431	433	
4. Meadowvale TS <sup>4</sup>	181	181	181	181	181	181	181	181	181	181	181	
5. Pleasant TS <sup>2</sup>	131	136	140	144	148	152	156	161	164	170	174	
6. Tomken TS	312	314	316	317	319	321	322	323	324	325	326	
Total:	1191	1217	1239	1260	1281	1303	1324	1337	1350	1364	1377	Avg.
Growth Rate:		2.3%	1.8%	1.7%	1.7%	1.7%	1.7%	1.0%	0.9%	1.1%	0.9%	1.5%
Net load; includes load transfers from Bramalea TS and Erindale TS to Cardiff TS.												
2 Net load; includes load	transfers	from Pl	easant T	S and B	ramalea	TS.						
3 Net load; Includes load transfers from Bramalea TS.												
Net load; includes load	transiers	S II OIII DI	amaiea	15.								

The major load centres during the ten-year study period exist in the north and westerly parts of the city of Mississauga at the 44 kV sub-transmission level. As well, major load centres exist in the west and northeasterly parts of Brampton at both 44 and 27.6 kV sub-transmission levels. The study area is considered summer critical.

#### 4. SYSTEM ASSUMPTIONS

Certain assumptions were made in order to assess the effects of different contingencies to verify the system capacity. The assumptions used in the study were:

1. If a coincident peak load forecast was not provided by the LDC, the coincident peaks were calculated using the factors in Table 4.

Table 4: Coincidence Factors

LDC	Coincidence Factor
Enersource Hydro Mississauga	Coincident peak forecast provided
Halton Hills Hydro Inc.	Coincident peak forecast provided
Hydro One Brampton	Coincident peak forecast provided
HONI Dx	Coincident peak forecast provided
Milton Hydro Distribution Inc.	0.95
Toronto Hydro Electric System	0.95

2. Power factors were provided by each LDC and used in this study as listed in Table 5.

Table 5: Power Factors

LDC	Power Factor	
Enersource Hydro Mississauga	0.9	
Halton Hills Hydro Inc.	0.9	
Hydro One Brampton	Bramalea TS (27.6 kV) – 0.88 <sup>13</sup> Goreway TS (27.6 kV) – 0.92 Jim Yarrow MTS (27.6 kV) – 0.92 Pleasant TS (27.6 kV) – 0.93	Bramalea TS (44 kV) – 0.88 <sup>14</sup> Goreway TS (44 kV) – 0.85 Pleasant TS (44 kV) – 0.88 <sup>15</sup>
Hydro One Networks Inc	0.88	
Distribution		
Milton Hydro Distribution Inc.	0.9	
Toronto Hydro Electric System	0.9	•

- 3. A study period of 10 years, from 2005 to 2015, was used to assess the transmission requirements.
- 4. Equipment summer continuous ratings and LTRs were based on a daytime ambient temperature of 30°C with a wind speed of 4 km/hour.
- 5. Hydro One Brampton shifts 60% of Bramalea TS (T1/T2, 27.6 kV) load growth to Jim Yarrow MTS (T1/T2, 27.6 kV) and 40% of Bramalea TS (T1/T2, 27.6 kV) load growth to Goreway TS (T5/T6, 27.6 kV).
- 6. Hydro One Brampton shifts all future load growth at Pleasant TS (T5/T6, 27.6 kV) to Jim Yarrow MTS (T1/T2, 27.6 kV)

<sup>&</sup>lt;sup>13</sup> Low voltage (LV) capacitors have been installed at Bramalea TS to compensate for the power factor.

<sup>&</sup>lt;sup>14</sup> LV capacitors have been installed at Bramalea TS to compensate for the power factor.

<sup>&</sup>lt;sup>15</sup> LV capacitors have been installed at Pleasant TS to compensate for the power factor.

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- 7. Toronto Hydro Electric System transfers load amongst the Richview TS step-down facilities (27.6 kV) so that they remain under the station capacity limit (10-day LTR).
- 8. Enersource Hydro Mississauga is unable to create more 44 kV ties between Tomken TS and Erindale TS due to the geography of the region and the lack of sub-transmission corridors. Thus, extra load from Erindale TS (T5/T6, 44 kV) and Meadowvale TS (T1/T2, 44 kV) are to be shifted to Erindale TS (T3/T4, 44 kV).
- Powerflow simulation analysis was based on the July 2004 load flow basecase with loads increased to represent the year under study. LDCs provided load forecasts from 2004 to 2024.

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#### 5. OPERATING AND PLANNING STANDARDS

The following Operating and Planning Standards were followed throughout this assessment.

The Independent Electricity System Operator's (IESO) Planning and Operating Standards indicate that <sup>16</sup>:

- The minimum voltage on the 230 kV transmission system under normal conditions is 220 kV, with a maximum allowable decline of 10% for a single element contingency;
- A maximum allowable voltage decline of 10% at all buses before tap changer action takes place;
- A maximum allowable voltage decline of 10% at high voltage and a maximum decline of 5% at low voltage (sub-transmission level) buses after tap changer action takes place; and,
- Voltage rises to be within 4% upon capacitor switching.

All transmission circuits and stations must be loaded to within their applicable ratings. When assessing thermal constraints at TSs, loading must not exceed the 10-day LTR in the event of a single contingency, both immediate post fault (before tap changer action takes place) and steady state post fault (after tap changer action takes place). Thermal constraints on transmission circuits are such that they must not exceed the 15-minute LTR for immediate post fault and must not exceed the continuous rating for steady state post fault for a single contingency.

For area supply planning purposes, the IESO stipulates the following guideline for loads greater than 500 MW in the IESO Supply Deliverability Guidelines:

"With all transmission elements in service, any single element or double circuit contingency should not result in an interruption of supply to a load level of 500MW or more." <sup>17</sup>

http://www.ieso.ca/imoweb/pubs/marketAdmin/IMO\_REQ\_0041\_TransmissionAssessmentCriteria.pdf

<sup>17</sup> IESO Supply Deliverability Guidelines, IMO\_GDL\_0021

<sup>&</sup>lt;sup>16</sup> IESO Transmission Assessment Criteria, IMO\_REQ\_0041

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#### 6. ADEQUACY OF EXISTING FACILITIES

This section reviews the adequacy of the existing 500 kV and 230 kV transmission facilities to supply the load in GTA West to step-down transformation facilities Bramalea TS, Cardiff TS, Erindale TS, Goreway TS, Halton TS, Jim Yarrow MTS, Meadowvale TS, Pleasant TS, Richview TS, and Tomken TS. The transformation capacity at these load stations is also reviewed.

#### 6.1 230 kV Transmission System

Four circuits (R14T, R17T, R19T and R21T) extend between Richiview TS and Trafalgar TS to supply electricity to Erindale TS, Tomken TS, Pleasant TS and Jim Yarrow MTS as well as carry power to Richview and transmission facilities further east. Circuits R14T and R17T have the capability to supply the forecasted load growth for the study period without any observable thermal or voltage limitations. Circuits R19T and R21T reach thermal limits by 2009. Circuits R19T and R21T supply electricity to more than 500 MW of load and are thus operating beyond the adequate system reliability and security guidelines as outlined in the IESO Supply Deliverability Guidelines.

Four circuits (T36B, T37B, T38B and T39B) extend between Trafalgar TS and Burlington TS. Step-down transformation facilities tapped off of circuits T38B and T39B within the defined GTA West geographic area were included in this study. Circuits T36B and T37B were only assessed in those situations where a contingency redistributed significant amounts of electricity along those lines. Step-down facilities tapped off of these lines were not included in this study. Under all contingencies, circuits T36B and T37B did not display any thermal loading or voltage deficiency limitations during the study period. The loss of either circuits T38B or T39B caused voltage deficiencies starting in 2005 at Meadowvale TS and in 2012 at Halton TS LV buses. By 2015, the segment of circuits T38B and T39B between Lantz Junction and Trafalgar TS DESN<sup>19</sup> (approximately the distance of one tower span) is loaded to approximately 80% of its continuous rating, steady state post contingency.<sup>20</sup>

Five circuits (V71RP, V72R, V73R, V74R and V76R) extend from Claireville TS to Richview TS. Bramalea TS and Cardiff TS are tapped off of a radial extension of V72R and V73R. Goreway TS is tapped off of a radial extension of V73R and V76R. By 2008, circuits V72R, V73R and V76R will be loaded up to 50% of their continuous rating pre-contingency on the segments between Claireville TS and Richview TS. In the same year, under steady state post contingency, these three circuits are not loaded beyond 60% of their continuous rating. On the radial tap extending from circuit V72R, the loading does not exceed 21% of its continuous rating and likewise for V73R. For circuit V76R, the loading does not exceed 14%. At the end of the study period, 2015, the loading on the three radial segments of circuits V72R, V73R and V76R does not exceed 32% of their continuous rating.

<sup>&</sup>lt;sup>18</sup> IESO Supply Deliverability Guidelines, IMO\_GDL\_0021 www.ieso.ca/imoweb/pubs/marketAdmin/IMO\_GDL\_0021\_IMOSupplyAvailabilityGuidelines.pdf

<sup>&</sup>lt;sup>19</sup> DESN – Dual Element Spot Network; a step down facility who has the same name as a Transformer Station (TS) whose purpose is to transform electricity from one high voltage to another. The term DESN is used to identify the load connection TS.

<sup>&</sup>lt;sup>20</sup> Where the contingency is the loss of the parallel circuit.

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#### 6.2 Step Down Transformation Facilities

Of imminent concern in this assessment is the step-down transformer capacity in GTA West. Several stations were found, at the very early stages of the study period, to be operating beyond Operating and Planning Standards (please refer to Section 5). A total of seven TSs require either additional capacity or voltage correction by the end of the study period; some of these at two separate sub-transmission levels. Further load forecast information can be found in Appendix A.

- ◆ Bramalea TS has step-down transformation capability to both 44 kV and 27.6 kV. Transformers T1 and T2 step-down voltage from 230 kV to 27.6 kV, and are already exceeding capacity. At this time, additional load growth in the Bramalea TS area at voltage level 27.6 kV is being transferred to Jim Yarrow MTS (60%) and Goreway TS (40%). This station has no additional capacity to supply the increasing load in the area. Due to the influx of local generation<sup>21</sup> in the Bramalea TS area connected to the 44 kV sub-transmission system, the transformation facilities connected to the 44 kV system were not found to be near thermal limits, nor were any voltage deficiencies identified during the study period.
- ◆ Erindale TS has step-down transformation capability to both 44 kV and 27.6 kV. Transformers T1 and T2 step-down voltage from 230 kV to the 27.6 kV level. These transformers are currently loaded beyond their summer 10-day LTR. Load is being transferred to Cardiff TS and will continue to be transferred until transformers T1 and T2 at Erindale TS are within their summer 10-day LTR. Transformers T5 and T6 (44 kV) are also currently loaded beyond their summer 10-day LTR. However, there is some available capacity on transformers T3 and T4 (44 kV) to which load is being transferred from transformers T5 and T6. With these and other 44 kV load transfers from Meadowvale TS, transformers T5 and T6 at Erindale TS are expected to be loaded to capacity by 2005, and transformers T3 and T4 at Erindale TS (44 kV) are expected to be loaded beyond capacity by 2006. There is additional capacity at Tomken TS (44 kV) for load transfers, however, there are insufficient sub-transmission right-of-ways on which to build distribution lines between these two stations. Thus 44 kV Erindale TS load cannot be transferred to Tomken TS.
- ◆ Pleasant TS has step-down transformation capability to both 44 kV and 27.6 kV. Transformers T5 and T6 transform electricity from 230 kV to the 27.6 kV level. These transformers are currently loaded to their summer 10-day LTR and all additional load is being transferred to Jim Yarrow MTS. Transformers T1 and T2 transform electricity from 230 kV to the 44 kV level. These transformers are expected to reach their summer 10-day LTR by summer 2011.
- Meadowvale TS has step-down transformation capability to 44 kV. This station is currently loaded to its summer 10-day LTR and all additional load is being transferred to Erindale TS.
- ♦ Halton TS has step-down transformation capability to 27.6 kV. This station is expected to be loaded to its summer 10-day LTR by 2011.

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<sup>&</sup>lt;sup>21</sup> Local generation on the Bramalea TS 44 kV system: Greater Toronto Airport Authority, McDonell Douglas CGS and Algonquin Power Energy from Waste.

- ◆ Jim Yarrow MTS has step-down transformation capability to 27.6 kV. Jim Yarrow MTS is currently receiving load transfers from Pleasant TS and Bramalea TS. The load at this station is expected to exceed its summer 10-day LTR by 2009.
- ♦ Goreway TS has step-down transformation capability to both 44 kV and 27.6 kV. Load forecasts suggest that transformers T5 and T6 at Goreway TS, which transform from 230 kV to 27.6 kV, will be loaded to their summer 10-day LTR by 2011. This is assuming that the low voltage buses have balanced loads and taking into consideration the load transfers from Bramalea TS. Transformer T4 (44 kV) at Goreway TS, does not display any problems during the study period.
- Cardiff TS was placed in-service in 2005. This station transforms from 230 kV to 27.6 kV. Load forecasts suggest that this station will be exceeding its summer 10-day LTR by the end of the study period, 2015.

#### 6.3 Load Transfer Capability

Load transfer capability within the sub-transmission systems has enabled some of the immediate concerns at several stations to be temporarily addressed. Due to the rapid load growth in several areas of GTA West, and the lack of local transmission resources, several stations have been and/or will be forced to designate cascading load transfers to other stations in order to mitigate operating risks until further capacity can be supplied. These load transfers are from:

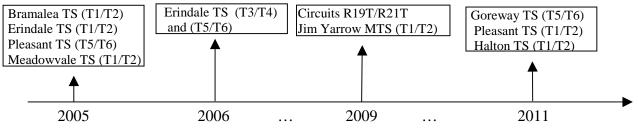
- ◆ Transformers T1/T2 at Bramalea TS (27.6 kV) to transformers T5/T6 at Goreway TS (27.6 kV), transformers T1/T2 at Jim Yarrow MTS (27.6 kV) and transformers T1/T2 at Cardiff TS (27.6 kV):
- ◆ Transformers T1/T2 at Erindale TS (27.6 kV) to transformers T1/T2 at Cardiff TS (27.6 kV);
- ◆ Transformers T5/T6 at Pleasant TS (27.6 kV) to transformers T1/T2 at Jim Yarrow MTS (27.6 kV); and,
- ◆ Transformers T1/T2 at Meadowvale TS (44 kV) to transformers T3/T4 at Erindale TS (44 kV).

These load transfers have already been or are in the process of being initiated by the LDCs. However, the load transfers do not address the overall load growth requirements, transmission capacity and voltage deficiencies, and in fact will accelerate transmission capacity needs at other stations.

#### 6.4 Summary of Needs

A summary of the needs to be addressed via transmission, step-down transformation, and voltage correction facilities as proposed in this study are shown in Figure 2. The need dates for the study area indicate that several new TSs are required immediately.

Figure 2: Summary of Needs, 2005 – 2015



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In order to identify potential solutions that would address more than one need, the needs identified in this study were combined into different groups taking into account the load transfer activities outlined in Section 6.3, the voltage transformation capabilities at the stations and the geographic load growth. These groups of needs, shown in Table 6, may have slightly different need dates than the dates shown in Figure 2.

Table 6: Geographic / Voltage Level Grouping of Needs

Group	Voltage Level	Need Date
Erindale TS / Meadowvale TS	44 kV	2006
Pleasant TS / Jim Yarrow MTS	27.6 kV	2009
Circuits R19T / R21T	230 kV	2009
Bramalea TS / Goreway TS	27.6 kV	2011
Pleasant TS	44 kV	2011
Halton TS	27.6 kV	2012

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#### 7. Possible Options to Address Supply Capacity & Voltage Stability

This section outlines all possible options considered in the study in order to address the identified needs in GTA West. Table 7 itemizes the options that are rejected and those that are further analyzed. These options address the overall transmission concerns that arise, despite the load transfers that are in progress. In some cases, options were proposed to address issues at two voltage levels. For this reason, some options may occur twice in the following table under different needs.

Table 7: Summary of Options

Option	Description	Status
"Do Nothing"	"Do Nothing"	Rejected
Meadowvale TS	Voltage Decline	
LVC	Install Low Voltage (LV) Capacitors – 2, 32.4 MVAr at 46 kV	Further Analyzed
Relief for Erinda	le TS and Meadowvale TS (44 kV)	
EM1	New DESN at Meadowvale TS (Meadowvale TS #2); two 230/44/27.6 kV, 75/125 MVA transformers	Rejected
EM2	New DESN at Meadowvale TS (Meadowvale TS #2); two 230/44 kV, 75/125 MVA transformers	Further Analyzed
EM3	New DESN, Winston TS, in the vicinity of Winston Churchill Blvd and Highway 403; two 230/44 kV, 75/125 MVA transformers	Further Analyzed
Relief for Gorew	ay TS and Bramalea TS (27.6 kV)	
GB1	New DESN, North Central Brampton TS, in the vicinity of Bovaird Drive and Heart Lake Road; two 230/27.6 kV, 75/125 MVA transformers	Rejected
GB2	New DESN at Cardiff TS (Cardiff TS #2); two 230/27.6 kV, 75/125 MVA transformers	Rejected
GB3	New DESN at Goreway TS (Goreway TS #2); two 230/27.6 kV, 75/125 MVA transformers	Further Analyzed
Relief for Pleasa	nt TS (44 kV)	
EM2	New DESN at Meadowvale TS (Meadowvale TS #2); two 230/44 kV, 75/125 MVA transformers and cascading load transfers from Pleasant TS	Rejected
EM3	New DESN, Winston TS, in the vicinity of Winston Churchill Blvd and Highway 403; two 230/44 kV, 75/125 MVA transformers and cascading load transfers from Pleasant TS (44 kV).	Rejected
P1	New DESN at Pleasant TS (Pleasant TS #3); two 230/44/27.6 kV, 75/125 MVA transformers	Rejected
P2	2 <sup>nd</sup> 230/44 kV, 50/83 MVA transformer at Goreway TS; cascading load transfers from Pleasant TS	Further Analyzed
Relief for Pleasa	nt TS and Jim Yarrow MTS (27.6 kV)	
EM1	New DESN at Meadowvale TS (Meadowvale TS #2); two 230/44/27.6 kV, 75/125 MVA transformers	Rejected

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GB1	Bovaird Drive and Heart Lake Road; two 230/27.6 kV, 75/125 MVA transformers	Rejected
P1	New DESN at Pleasant TS (Pleasant TS #3); two 230/44/27.6 kV, 75/125 MVA transformers	Rejected
PJ1	New DESN at Pleasant TS (Pleasant TS #3); two 230/27.6 kV, 75/125 MVA transformers	Further Analyzed
PJ2	New DESN, Orlando TS, in the vicinity of Mississauga Rd and Highway 407; two 230/27.6 kV, 75/125 MVA transformers	Rejected
Relief for Halton	TS (27.6 kV)	
EM1	New DESN at Meadowvale TS (Meadowvale TS #2); two 230/44/27.6 kV, 75/125 MVA transformers	Rejected
H1	New DESN at Halton TS (Halton TS #2); two 230/27.6 kV, 50/83 MVA transformers	Rejected
H2	New DESN, Steeles TS, in the vicinity of Steeles Ave. and Trafalgar Rd; two 230/27.6 kV, 50/83 MVA transformers	Further Analyzed
НЗ	New DESN, James Snow TS, in the vicinity of Steeles Ave. and James Snow Parkway; two 230/27.6 kV, 50/83 MVA transformers	Further Analyzed
Relief for circuits	R19T/R21T and 500 MW IESO Guideline Restriction (230 kV)	
T1	Extend circuits V72R/V73R from Cardiff TS to the Pleasant TS tap and construct a new Switching Station (SS), Hurontario SS, west of Hurontario Street	Further Analyzed
T2	Extend circuits V72R/V73R from Cardiff TS to Jim Yarrow MTS and re-supply Jim Yarrow MTS	Rejected
Т3	Extend circuits T38B/T39B from Meadowvale TS to the Pleasant TS tap and construct a new SS, Hurontario SS, west of Hurontario Street	Further Analyzed
T4	Extend circuits T38B/T39B from Meadowvale TS to Jim Yarrow MTS and re-supply Jim Yarrow MTS	Rejected
T5	Reconductor circuits R19T/R21T from Trafalgar TS to Erindale Junction and from Hanlon Junction to Jim Yarrow Junction	Rejected
T6	Extend circuits V73R/V76R from Goreway TS to the Pleasant TS tap and construct a new SS, Pleasant SS	Rejected

#### "Do Nothing" 7.1

The "Do Nothing" approach will aggravate the existing load supply and transmission capacity problems and accelerate capacity problems with circuits R19T/R21T.

For circuits R19T/R21T, this approach does not satisfy the IESO requirements stipulated in the guideline for loads greater than 500 MW.

This alternative is not an acceptable approach and is not considered further.

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#### 7.2 Meadowvale TS Voltage Decline

#### LVC: Install Low Voltage Capacitors

Installation of LV capacitors at Meadowvale TS will allow the station to meet minimum voltage requirements in the event of a single contingency.

#### 7.3 Relief of Erindale TS and Meadowvale TS (44 kV)

#### EM1: Meadowvale TS #2

A new 230/44/27.6 kV, 75/125 MVA DESN at Meadowvale TS would provide capacity for the Erindale TS and Meadowvale TS areas. The use of a three winding transformer to transform voltages to two sub-transmission levels (44 kV and 27.6 kV) would mean that Jim Yarrow MTS and Pleasant TS and/or Halton TS may also take advantage of the capacity offered by this proposed new DESN. This option was considered and rejected on the basis that a single DESN would not be able to supply the necessary capacity for both the 44 kV and 27.6 kV needs in the surrounding area over the next ten years.

#### EM2: Meadowvale TS #2

A new 230/44 kV, 75/125 MVA DESN at Meadowvale TS would provide capacity for Erindale TS and Meadowvale TS at the 44 kV sub-transmission level. This option was further evaluated.

#### EM3: Winston TS

A new 230/44 kV, 75/125 MVA DESN in the vicinity of Winston Churchill Boulevard (or Erin Mills Parkway) and Highway 403 would provide additional capacity off-loading Erindale TS and Meadowvale TS. This option was further evaluated.

#### 7.4 Relief for Goreway TS and Bramalea TS (27.6 kV)

#### **GB1**: North Central Brampton TS

A new 230/27.6 kV, 75/125 MVA DESN in North Central Brampton in the vicinity of Bovaird Drive and Heart Lake Road would provide transmission capacity to relieve Goreway TS and Bramalea TS. This option does not completely satisfy the needs of the LDC and therefore was considered and rejected.

#### GB2: Cardiff TS #2

A new 230/27.6 kV, 75/125 MVA DESN at Cardiff TS would provide additional transmission capacity relieving Goreway TS and Bramalea TS. There is insufficient room for the required facilities on the existing site and this option does not completely satisfy the needs of the LDC and therefore was considered and rejected.

#### GB3: Goreway TS #2

A new 230/27.6 kV, 75/125 MVA DESN at Goreway TS would provide transmission capacity to relieve both Goreway TS and Bramalea TS. The location of this DESN is closer to the load centre and would be in an overall more ideal location than the other two proposals (GB1 and GB2). Thus, this option was considered further.

#### 7.5 Relief for Pleasant TS (44 kV)

#### EM2: Meadowvale TS #2

Same as above (EM2, Section 7.3), with the addition of cascading load transfers from Pleasant TS to the new DESN at Meadowvale TS. However, cascading load transfers from Pleasant TS to Meadowvale TS would be complex and costly for the LDC, thus this option was considered and rejected.

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#### EM3: Winston TS

Same as above (EM3, Section 7.3), with the addition of cascading load transfers from Pleasant TS to the new DESN at Winston TS. However, cascading load transfers from Pleasant TS to the proposed station in the vicinity of Winston Churchill Blvd and Highway 403 would be complex and costly for the LDC, thus this option was considered and rejected.

#### P1: Pleasant TS #3

A new 230/44/27.6 kV, 75/125 MVA DESN at Pleasant TS would provide additional transmission capacity to Pleasant TS at the 44 kV sub-transmission level, as well as address needed capacity at the 27.6 kV sub-transmission level for Pleasant TS and Jim Yarrow MTS. However, the capacity requirements for 27.6 kV are large enough to require a whole DESN while the capacity requirements at the 44 kV level are small enough to make this transformer size uneconomic. Thus, this option was considered and rejected.

#### P2: Goreway TS 44 kV DESN

Install a second 230/44 kV, 50/83 MVA transformer at Goreway TS. This would provide the required transmission capacity for Pleasant TS at the 44 kV sub-transmission level, as well as complete the DESN at Goreway TS, providing redundancy and thereby reducing operating risks to the load already established there. This option was considered further.

#### 7.6 Relief for Pleasant TS and Jim Yarrow MTS (27.6 kV)

#### EM1: Meadowvale TS #2

Same as above (EM1, Section 7.3) with the addition of cascading load transfers at the 27.6 kV level from Pleasant TS and Jim Yarrow MTS to the new DESN at Meadowvale TS. The load requirements for Pleasant TS and Jim Yarrow MTS are such that they would require an entire 75/125 MVA DESN. Thus, this option of sharing between the two sub-transmission levels was considered and rejected.

#### **GB1:** North Central Brampton TS

Same as above (GB1, Section 7.4) with the addition of cascading load transfers from Pleasant TS and Jim Yarrow MTS (27.6 kV) to this new DESN. However, the load requirements at the 27.6 kV sub-transmission level do not permit the sharing of a single DESN as it would not provide enough capacity to the 27.6 kV level. Thus, this option was considered and rejected.

#### PJ1: Pleasant TS #3

A new 230/27.6 kV, 75/125 MVA DESN at Pleasant TS would provide the needed capacity at the 27.6 kV sub-transmission level. This option was considered further.

#### PJ2: Orlando TS

A new 230/27.6 kV, 75/125 MVA DESN in the vicinity of Mississauga Road and Highway 407 would provide the needed transmission capacity. However, the location of this proposed DESN is too far away from the load centre. Thus, this option was considered and rejected.

#### 7.7 Relief for Halton TS (27.6 kV)

#### EM1: Meadowvale TS #2

Same as above (EM1, Section 7.3), with the addition of load transfers from Halton TS to Meadowvale TS #2. This option would not provide enough capacity at the 44 kV level for the requirements of Meadowvale TS and Erindale TS. This option was therefore considered and rejected.

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#### **H1:** *Halton TS #2*

A new 230/27.6 kV, 50/83 MVA DESN at Halton TS would provide transmission capacity for the load growth near Halton TS at the 27.6 kV level. However, this option does not completely satisfy the needs of the LDC. Thus, this option was considered and rejected.

#### **H2**: Steeles TS

A new 230/27.6 kV, 50/83 MVA DESN in the vicinity of Steeles Avenue and Trafalgar Road would provide transmission capacity for the load growth near Halton TS at the 27.6 kV level. This option was preferred by the LDCs and was considered further.

#### H3: James Snow TS

A new 230/27.6 kV, 50/83 MVA DESN in the vicinity of James Snow Parkway and Steeles Avenue would provide transmission capacity for the load growth near Halton TS at the 27.6 kV level. This option was preferred by the LDCs and was considered further.

#### 7.8 Relief for Circuits R19T/R21T and IESO 500 MW Guideline Restriction (230 kV)

#### T1: Circuits V72R/V73R Extension and Hurontario SS

Circuits V72R and V73R are extended from Cardiff TS west to the Pleasant TS tap (approximately 4 km in length). A new SS is constructed at this junction, Hurontario SS. Jim Yarrow MTS is radially re-supplied from the new SS. This effectively provides a second source of power for the Pleasant TS tap, off-loading circuits R19T and R21T from Erindale Junction to Hanlon Junction and from Hanlon Junction to Jim Yarrow Junction. The new SS satisfies the IESO requirements stipulated in the guideline for loads greater than 500 MW by creating an isolation point on circuits R19T and R21T.

#### **T2:** Circuits V72R/V73R Extension and Re-supply Jim Yarrow MTS

Circuits V72R and V73R are extended from Cardiff TS west to Jim Yarrow MTS. Jim Yarrow MTS is re-supplied from this extension. This option would place too much load on circuits V72R/V73R and was thus considered and rejected.

#### **T3**: Circuits T38B/T39B Extension and Hurontario SS

Circuits T38B and T39B are extended from Meadowvale TS east to the Pleasant tap (approximately 9 km). A new SS is constructed at this junction, Hurontario SS, and Jim Yarrow MTS is radially re-supplied from the new SS.

#### T4: Circuits T38B/T39B Extension and Re-supply Jim Yarrow MTS

Circuits T38B and T39B are extended from Meadowvale TS east to Jim Yarrow MTS. Jim Yarrow MTS is re-supplied from this extension. This option would place too much load on circuits T38B/T39B and was thus considered and rejected.

#### **T5**: Reconductor Circuits R19T/R21T

Circuits R19T and R21T are reconductored between Erindale Junction and Hanlon Junction (5.1 km in length) and between Hanlon Junction and Jim Yarrow Junction (11.6 km in length). For circuits R19T and R21T, this option does not satisfy the IESO requirements stipulated in the guideline for loads greater than 500 MW and was therefore considered and rejected.

#### **T6**: Circuits V73R/V76R Extension and Pleasant SS

Circuits V73R and V76R are extended from Goreway TS to the Pleasant TS tap and a new SS (Pleasant SS) is constructed at this junction. However, there is insufficient space at Pleasant

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TS to economically incorporate both a third DESN as well as a new SS. Moreover, this option would require at least 13 km of double circuit underground cable at a cost of \$5-10 Million/km as there is no available transmission right-of-way. This option was considered cost prohibitive. It was therefore considered and rejected.

#### 7.9 Consideration of Local Generation

Several local power generating stations (GS) in the Brampton area are currently in-service and/or are expected to be in-service within the next 12-24 months. Despite rapid load growth, the 44 kV DESN at Bramalea TS was not a concern throughout the study period as the local generation is connected to the system at the 44 kV sub-transmission level. This local generation has sufficiently off-loaded the transformers of the 44 kV DESN at Bramalea TS such that new transmission capacity was not an identified requirement throughout the study period. However, this local generation does not affect the loading of the 27.6 kV DESN at Bramalea TS. As such, this DESN still poses a problem, requiring immediate load transfers to various other TSs in the Brampton area, in addition to future planned transmission capacity.

A large GS in the vicinity of Goreway TS area is also proposed. A qualitative analysis shows that this GS, even at a 900 MW capacity, will not resolve any of the needs identified in this study. The transmission capacity needed in the Bramalea TS, Goreway TS and Cardiff TS areas would be unresolved by connecting a GS at the 230 kV high voltage level. However, this proposed GS could potentially increase the usability of an extension of circuits V72R/V73R to the Pleasant TS tap, with the establishment of Hurontario SS as outlined in option T1.

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#### **PLANS: OPTION COMBINATIONS**

The options listed in the previous section that were considered worth further analysis were combined into several combinations and evolved into four plans as shown in Table 8. These plans effectively resolve all transmission capacity problems throughout the study period from 2005 to 2015.

Table 8: Plans: Option Combinations	Plan				
Need	Year	Α	В	С	D
Pleasant TS/Jim Yarrow MTS (27.6 kV)	2009	PJ1	PJ1	PJ1	PJ1
Bramalea TS/Goreway TS (27.6 kV)	2011	GB3	GB3	GB3	GB3
Erindale TS/Meadowvale TS (44 kV)	2006	EM3	EM3	EM2	EM2
Pleasant TS (44 kV)	2011	P2	P2	P2	P2
Halton TS (27.6 kV)*	2012	H2	H2	H2	H2
R19T/R21T and IESO 500 MW Guideline	2009	T1	T3	T1	T3
* Option H3 would be supplied from the same tap as H2, the H3 for the purposes of this study.	us results fro	m H2 were co	nsidered to sa	tisfactorily rep	resent option

Please refer to Figures 3, 4, 5 and 6 for schematic diagrams of the above plans.

Figure 3: Plan A

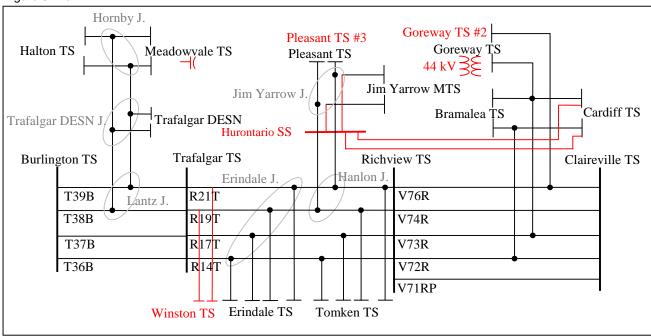


Figure 4:Plan B

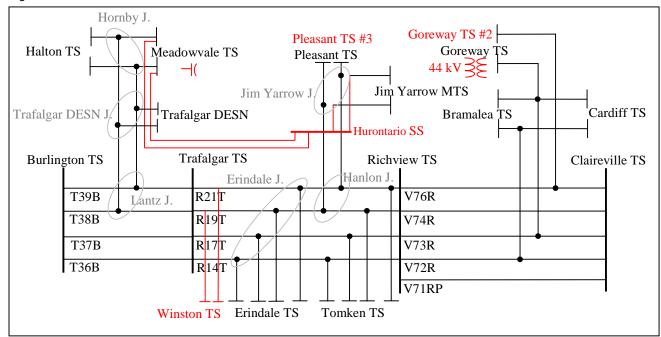


Figure 5: Plan C

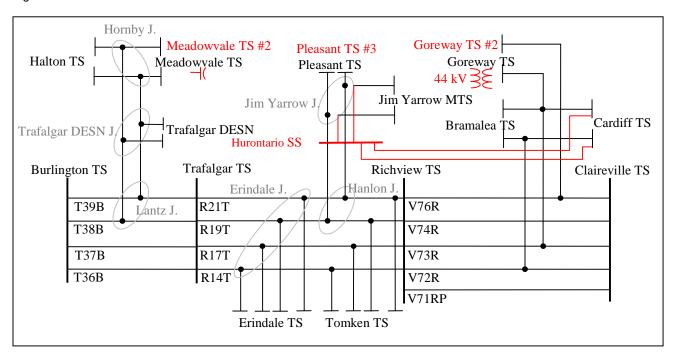
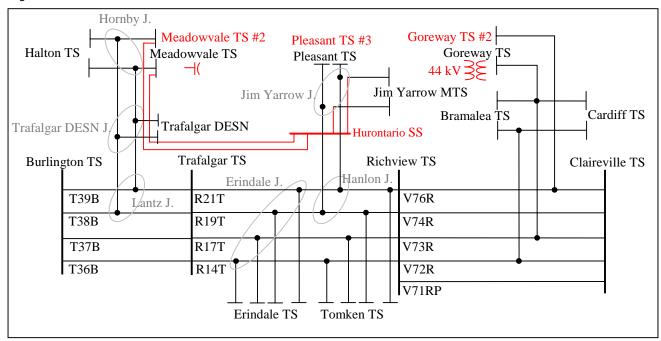


Figure 6: Plan D



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#### 9. SELECTION OF PREFERRED PLAN

The Shaw Power Technologies Inc. PSS/E software<sup>22</sup> was used to assess the transmission capacity for the existing facilities and for the proposed plans in GTA West. All plans address the needs identified during the 10-year study period. Specific loadflow results can be found in Appendix C.

#### 9.1 2015 Technical Evaluation

#### 9.1.1 Plan A: Extension of Circuits V72R/V73R, Winston TS

Plan A addresses all of the identified needs in this study. This Plan includes the extension of circuits V72R and V73R from Cardiff TS across to the proposed new SS, Hurontario SS, located on the Pleasant TS tap. Jim Yarrow MTS is radially re-supplied from Hurontario SS. The proposed new TS, Winston TS, tapped from circuits R19T and R21T will support the growing 44 kV load, off-loading Meadowvale TS and Erindale TS. New 230/27.6 kV transformation capacity is provided at Pleasant TS and Goreway TS and new 230/44 kV transformation capacity is provided at Goreway TS.

Technically, Plan A performed well. The majority of the high voltage buses were within an acceptable voltage range of between 240 and 243 kV pre-contingency. The following contingencies were observed: loss of circuit V72R, loss of circuit T38B, loss of circuit R19T Upper<sup>23</sup>, loss of circuit R19T Lower<sup>24</sup>, and loss of circuit R14T. Since the ratings on the double circuits<sup>25</sup> were consistent, it is a good assumption that the loss of the other circuit in the double circuit pair would warrant the same technical results. These contingencies revealed that Erindale TS and Meadowvale TS may need to transfer further load to the new TS, Winston TS, in order to maintain transformer operation below the summer 10-day LTR. The load at Cardiff TS exceeds the station capacity, steady state post fault (107%). The voltage at Hurontario SS was 240.5 kV and the voltage at Cardiff TS was 240.7 kV. The loading on the extension of circuits V72R and V73R was approximately 280 MW total and each line was loaded to 18% of its continuous rating, under pre-fault conditions. Winston TS placed additional load on circuits R19T and R21T, however this load is tapped off prior to the line sections of concern (Erindale Junction to Hanlon Junction and Hanlon Junction to Hurontario SS).

#### 9.1.2 Plan B: Extension of Circuits T38B/T39B, Winston TS

Plan B involved the extension of circuits T38B and T39B from Meadowvale TS across to the proposed new SS, Hurontario SS, located along the Pleasant TS tap. The new proposed TS, Winston TS, is tapped from circuits R19T and R21T. New 230/27.6 kV transformation capacity is provided at Pleasant TS and Goreway TS and new 230/44 kV transformation capacity is provided at Goreway TS. Plan B performed adequately, though the voltages were not quite as high as for Plan A. Again, Cardiff TS exceeded capacity, steady state post fault (107%). The voltage at Hurontario SS was 239.2 kV and the voltage at Meadowvale TS was 239.3 kV. Meadowvale TS, Halton TS and Erindale TS exceeded capacity steady state post fault. The voltages on the Pleasant TS tap were low, and Pleasant TS 230/44 kV transformers were nearly loaded to capacity steady state post fault (~96%). The loading on the extension of circuits T38B and T39B was approximately 250 MW total and each line was loaded to 20% of its continuous rating under pre-fault conditions.

<sup>&</sup>lt;sup>22</sup> Copyright © 1976 – 2004 Siemens Power

<sup>&</sup>lt;sup>23</sup> R19T Upper is the portion of circuit R19T north of Hurontario SS.

<sup>&</sup>lt;sup>24</sup> R19T Lower is the portion of circuit R19T between Richview TS and Trafalgar TS and from Hanlon Junction to Hurontario SS.

<sup>&</sup>lt;sup>25</sup> A line of supporting structures that carries two power circuits.

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#### 9.1.3 Plan C: Extension of Circuits V72R/V73R, Meadowvale TS #2

Plan C performed similarly to Plan A. The only difference between these two plans is the addition of Meadowvale TS #2 in place of the new TS, Winston TS. New 230/27.6 kV transformation capacity is provided at Pleasant TS and Goreway TS and new 230/44 kV transformation capacity is provided at Goreway TS. These similarities were reflected in the results of the technical analysis. Again, Cardiff TS exceeded capacity, steady state post fault (107%). Meadowvale TS may need to transfer additional load onto Meadowvale TS #2. The voltage at Hurontario SS was 240.4 kV pre-fault. The voltage at Cardiff TS is 240.6 and the voltage at Meadowvale TS was 239.9 kV. The loading on the extension of circuits V72R and V73R was approximately 290 MW total and each line was loaded to 19% of its continuous rating, under pre-fault conditions.

#### 9.1.4 Plan D: Extension of Circuits T38B/T39B, Meadowvale TS #2

Plan D performed similarly to Plan B. Again the only difference between these two plans is the addition of Meadowvale TS #2 in place of the new TS, Winston TS. New 230/27.6 kV transformation capacity is provided at Pleasant TS and Goreway TS and new 230/44 kV transformation capacity is provided at Goreway TS. The overall system voltages were slightly lower especially on the Meadowvale TS tap. Again, Cardiff TS exceeded capacity, steady state post fault (107%). Erindale TS may need to transfer more load onto Meadowvale TS #2. The voltage at Hurontario SS was 238.5 kV. The voltage at Meadowvale TS was 238.6 kV. The total load on the extension of circuits T38B and T39B was approximately 240 MW, with each line loaded to approximately 19% of its continuous rating, under pre-fault conditions. On the loss of circuit R19T, the line section between Erindale Junction and Hanlon Junction on circuit R21T is loaded to 43% of continuous, steady state post fault. On the loss of circuit T38B, the line section between Lantz Junction and Trafalgar DESN Junction on T39B is loaded to 86% and the line section between Trafalgar DESN Junction and Hornby Junction on the same line is loaded to 78%.

#### 9.1.5 Plans A and C Versus Plans B and D: Circuit Extension V72R/V73R Versus T38B/T39B

The intent of extending either circuits V72R/V73R or T38B/T39B is to off-load circuits R19T/R21T between Hanlon Junction and the proposed new Hurontario SS. Table 9 shows that the extension of circuits V72R/V73R (Plans A and C) allows circuits R19T/R21T to be off-loaded more than the extension of circuits T38B/T39B (Plans B and D). In Plans A and C, circuit R21T is loaded to 37% and 35% respectively, of its continuous current loading capacity. While for Plans B and D, circuit R21T is loaded to 41% and 43% respectively. Approximately 60% of the reactive support for the Pleasant tap comes from the Richview/Claireville area and 40% from the Trafalgar area. The extension of T38B/T39B causes all of the reactive support from Richview/Claireville to flow along R21T. This increases the flow along the line segment between Hanlon Junction and Hurontario SS, causing it to be loaded higher in Plans B and D than in Plans A and C.

Table 9: Impact on Circuit R21T, With Loss of Circuit R19T Lower	Plan			
Loss of R19T Lower, 2015 Steady State Post Contingency		T38B/	V72R/	T38B/
		T39B	V73R	T39B
		В	С	D
From Hanlon J. to Hurontario SS	37%	41%	35%	43%
From Erindale J. to Hanlon J.	62%	48%	55%	43%
Note: All % values are a percentage of current loading, continuous rating				

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Another line segment of concern on circuits R19T/R21T was between Erindale Junction and Hanlon Junction. Table 9 shows that Plans B and D (48% and 43%) actually allow this section of the circuits to be off-loaded more than Plans A and C (62% and 55%). The extension of circuits T38B/T39B changes the flow on circuit R21T such that Tomken TS is mainly supplied from Richview TS whereas the extension of circuits V72R/V73R causes Tomken TS to be mainly supplied from Trafalgar TS. Supplying Tomken from the Trafalgar side of R21T increases the loading on the line segment between Erindale Junction and Hanlon Junction, causing it to be loaded higher in Plans A and C than in Plans B and D.

#### 9.1.6 Plans A and B Versus Plans C and D: Winston TS Versus Meadowvale TS #2

Circuits T38B/T39B are affected by the options of whether to construct the new TS, Winston TS or add Meadowvale TS #2. Increased load on circuits T38B/T39B could precipitate the need for reconductoring sections of these lines sooner than anticipated. Table 10 shows the impact.

Table 10: Impact on Circuit T39B With Loss of Circuit T38B	Plan				
Loss of T38B, 2015	Winston TS		Meadowvale TS #2		
Steady State Post Contingency	A B		С	D	
Lantz J. to Trafalgar DESN J.	71%	77%	86%	86%	
Trafalgar DESN J. to Hornby J.	63%	69%	78%	78%	
Note: All % values are a percentage of current loading, continuous rating					

Plans A and B represent the Winston TS option while Plans C and D represent the Meadowvale TS #2 option. Line segments Lantz Junction to Trafalgar DESN Junction and Trafalgar DESN Junction to Hornby Junction were identified as being most susceptible to over-loading on circuits T38B/T39B. As shown in Table 10, the current loading on circuit T39B, between Lantz Junction and Trafalgar DESN Junction, is considerably less for Winston TS (71% and 77%) than for Meadowvale TS #2 (86% and 86%). Similarly, on the line segment between Trafalgar DESN Junction and Hornby Junction the current loading is less for Winston TS (63% and 69%) versus Meadowvale TS #2 (78% and 78%).

#### 9.1.7 Plan A Versus Plans B, C and D: Trafalgar TS and Claireville TS Autotransformers

The loads flowing on the Trafalgar TS and Claireville TS autotransformers were observed and compared amongst the four plans to determine their impact. The Trafalgar TS autotransformers were within their capacity limits for the duration of the study period. The Claireville TS autotransformers were at their capacity limits by the end of the study period. Resolving issues with the loading on the autotransformers at Claireville TS requires further investigation beyond the GTA West study, and is therefore considered outside of the scope of this study. It is assumed that measures, independent of this study, are being taken to resolve this issue<sup>26</sup>. However, none of the options being considered will change the recommendations of this study.

The basecase conditions relevant to the loading on the Trafalgar TS and Claireville TS autotransformers were:

- Summer peak load of 26,000 MW
- Flow East Towards Toronto (FETT) transfers of approximately 3600 MW
- Queenston Flow West (QFW) transfers of approximately 500 MW
- 6 Pickering GS units, 4 Darlington GS units, 6 Bruce GS units and 0 Lakeview GS units modelled

<sup>&</sup>lt;sup>26</sup> Some of the options being considered include Goreway GS and other generation in GTA West as well as additional autotransformers at Parkway TS.

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- Local 44 kV generation connected to Bramalea TS in-service
- Proposed Goreway GS not in-service

Table 11 shows the impact each plan had on the autotransformers,. Plan A was used as a base for the comparison, and Plans B, C and D were compared to Plan A to show the difference in the megawatt (MW) flow. The flows were normalized by the number of autotransformers at each of the stations (2 at Trafalgar TS, 4 at Claireville TS).

Table 11: Autotransformer Impact	Plan Comparison				
Stations / Plans	A B C D				
Trafalgar TS		22	-7	22	
Claireville TS	20 4 -17				
Note: Numbers are in ∆ MW/Autotransformer					

There is no material effect on the flows on the autotransformers at either Trafalgar TS or Claireville TS when comparing the construction of Winston TS (Plans A and B) to the construction of Meadowvale TS #2 (Plans C and D). The following conclusions can be drawn when comparing the extension of circuits V72R/V73R (Plans A and C) to the extension of circuits T38B/T39B (Plans B and D):

- the extension of V72R/V73R will increase the flow on the Claireville TS autotransformers.
- the extension of T38B/T39B will increase the flow on the Trafalgar TS autotransformers.

Overall, the flow differential between the four plans is minimal and not considered material.

#### 9.1.8 Preferred Plan

HV Voltages in Plan A were within a very acceptable range, and slightly higher than in Plans B, C or D. Winston TS (Plans A and B) is a better technical choice than Meadowvale TS #2 (Plans C and D) as there are indications that the addition of Meadowvale TS #2 could lead to transmission problems well into the future. When comparing the extension of circuits V72R/V73R (Plan A) to the extension of circuits T38B/T39B (Plan B), Table 10 clearly shows that the current loading percentages for Plan A are less than for Plan B. Specifically, the extension of circuits T38B/T39B places additional stress on certain line segments which may advance the need for reconductoring these line sections on circuits T38B/T39B. The flows on the autotransformers at Trafalgar TS and Claireville TS were marginally different between the four plans, with the new 44 kV TS (Winston TS/Meadowvale TS #2) having no material effect whatsoever. In consideration of the technical analysis for the year 2015, the best choice is Plan A, which includes the extension of circuits V72R/V73R and the construction of a new TS, Winston TS.

#### 9.1.9 2024 Technical Assessment

All plans met the needs identified in the 10-year study period. These plans were further technically evaluated with respect to the long-term system planning requirements by assessing them for the expected 2024 conditions. This method provides a snapshot of the long-term viability of each of the plans, and how each would perform under the increasing load growth that is expected in the GTA West. The study participants provided load forecasts up to the year 2024. Overall, with respect to long-term system planning requirements in GTA West, Plan A performed technically better than the other plans. Refer to Appendix B for results of the 2024 Technical Assessment.

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#### 9.2 Cost Comparison

Table 12 shows representative costs comparing potential total cost for each of the proposed options. These estimated costs are preliminary and are used for comparison only. The most economic plan is Plan C and the second most economic is Plan A. Both of these plans encompass the extension of circuits V72R/V73R, and differ only in regards to the construction of Winston TS (Plan A, \$15M) versus Meadowvale TS #2 (Plan C, \$10M). However, considering the degree of accuracy of the preliminary costs, the differential between the plans is nominal.

Table 12: Cost Comparison of Option Combinations

Plan	A	В	С	D			
LVC	1	1	1	1			
PJ1	10	10	10	10			
GB3	10	10	10	10			
EM2			10	10			
EM3	15	15					
P2	3	3	3	3			
H2	15	15	15	15			
T1	32		32				
Т3		42		42			
Total:	86	96	81	91			
Note: all numbers are listed as \$ Million							

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#### 10. DISCUSSION

Overall, Plan A performed technically better than Plans B, C or D. Generally, the HV system voltages were slightly higher for Plan A. The specific sections of circuits R19T/R21T were offloaded sufficiently to eliminate the need for reconductoring. The four plans displayed relatively minimal change to the flow distribution on the Trafalgar TS and Claireville TS autotransformers.

In the long-term, Plan A did not advance further transmission problems along circuits T38B/T39B or cause problems along any other circuits. Placing additional reactive power on the HV system for voltage support could enhance Plan A. All of the new deficiencies observed in the 2024 outlook (refer to Appendix B) could be resolved via load transfers between stations and/or addition of LV capacitors and HV reactive support.

Discussion with the LDCs determined that Winston TS is the preferred option to Meadowvale TS #2 as there are indications that the addition of Meadowvale TS #2 could lead to transmission problems well into the future. This eliminates Plans C and D. Between the remaining two plans (Plans A and B), Plan A is more economic as shown in Table 12. The reason for this is that the extension of circuits V72R and V73R is 5 km shorter than the extension of circuits T38B and T39B. Thus, Plan A is the preferred alternative.

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#### 11. CONCLUSIONS

The following conclusions can be reached from the analysis performed for this study:

- Bramalea TS (27.6 kV), Pleasant TS (27.6 kV) and Erindale TS (27.6 kV) are currently loaded to or beyond their capability and are being forced to transfer load to other stations to mitigate operating risks.
- Meadowvale TS (44 kV) and Erindale TS (44 kV) are expected to be at capacity by 2006. The earliest possible option to relieve the loading at Meadowvale TS and Erindale TS (44 kV) is 2008 with the addition of the proposed TS, Winston TS.
- ♦ Meadowvale TS will currently suffer voltage declines greater than 10% under immediate post fault conditions. This voltage stability problem can be rectified with a LV capacitor. The earliest that a LV capacitor could be installed at Meadowvale TS is summer 2007.
- Circuits R19T/R21T are currently (2005) beyond the IESO requirements stipulated in the guideline for loads greater than 500 MW. Segments of these lines are expected to be at capacity by 2009. The earliest possible option to address this problem can be implemented by 2009.
- ◆ Pleasant TS T1/T2 (44 kV) is expected to be at capacity by 2011. Option P2 (Goreway TS 44 kV DESN) can address this issue as early as 2011.
- ◆ Pleasant TS and Jim Yarrow MTS (27.6 kV) are expected to exceed capacity by 2009. Option PJ1 (Pleasant TS #3) can address this issue as early as 2009.
- ♦ Bramalea TS and Goreway TS (27.6 kV) are expected to be at capacity by 2011. Option GB3 (Goreway TS #2) can address these issues as early as 2011.
- ♦ Halton TS (27.6 kV) is expected to be at capacity by 2011. Options H2 (Steeles TS) or H3 (James Snow TS) can address this issue as early as 2011.
- ♦ The preferred Plan to meet all of these needs is Plan A, consisting of the following:
  - 1. Install LV capacitors at Meadowvale TS;
  - 2. Build Winston TS;
  - 3. Extend circuits V72R/V73R from Cardiff TS to the Pleasant TS tap, build Hurontario SS, and radially re-supply Jim Yarrow MTS:
  - 4. Add a 2<sup>nd</sup> 230/44 kV transformer at Goreway TS (44 kV DESN);
  - 5. Build Pleasant TS #3; and,
  - 6. Build Goreway TS #2.

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#### 12. RECOMMENDATIONS

Several recommendations can be drawn from this study to address the current system deficiencies and provide system capacity to meet forecasted load growth. These recommendations are:

- 1. Subject to the Ontario Power Authority's integrative review (Integrated Power System Plan) Hydro One Networks Inc. to initiate the approval processes required for the extension of circuits V72R and V73R and the construction of Hurontario SS.
- 2. Hydro One Networks Inc. to commence the detailed specification and engineering of the LV capacitors for Meadowvale TS.
- 3. Hydro One Networks Inc. to commence the preliminary engineering and consultation with the LDCs, and to initiate the approval processes on the construction of a new TS, Winston TS, in the vicinity of Winston Churchill Blvd. and Highway 403.
- 4. The LDCs to continue to transfer loads as necessary to mitigate potential operating risks until additional transmission capacity becomes available.
- 5. The LDCs and Hydro One to continue to monitor load growth in the GTA West area and to review options for long-term growth based on the location of new developments and load forecasts.

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# APPENDIX A: LOAD FORECASTING DATA

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Table A1 below shows the coincident load forecast from 2005 to 2015 for all stations in MVA. It includes the station or DESN LTR (limited time rating). The data in this table does not include load transfers to new stations proposed in this study, however it does include load transfers to existing stations as proposed by the LDCs. Please note, Richview DESN load was neglected as it was assumed that Toronto Hydro Electric System would manage their load between DESNs to reduce operating risks when necessary.

Table A1: Coincident Load Forecast in MVA

1. E 2. C	Station - 27.6 kV Bramalea T1/T2 Cardiff TS	LTR (MVA) 172.6	2005	2006										
2. C	Cardiff TS	172 6		2000	2007	2008	2009	2010	2011	2012	2013	2014	2015	
3. E			217	195	197	199	201	203	205	206	206	206	207	
	- · · · I · I · · · · · · · · · · · · ·	126.1	0	112	115	117	119	122	124	125	125	125	126	
4. 0	Erindale T1/T2	190.8	259	186	189	193	197	201	205	206	207	207	208	
	Goreway T5/T6	191.8	161	169	177	184	192	200	209	217	226	235	243	
5. H	Halton TS	206.6	108	127	146	165	180	184	189	194	199	204	208	
6. J	Jim Yarrow MTS	174.0	104	109	122	136	150	165	180	196	213	229	244	
7. F	Pleasant T5/T6	198.6	213	213	213	213	213	213	213	213	213	213	213	
8. F	Richview T1/T2	172.6	152	154	155	157	158	160	161	163	165	167	168	
9. F	Richview T5/T6	198.4	116	119	121	122	123	124	125	126	127	128	129	
10. F	Richview T7/T8	88.1	137	141	142	143	144	145	146	147	149	150	151	
	Total:		1466	1524	1576	1629	1677	1717	1758	1792	1829	1865	1898	Avg.
	Growth Rate			4.0%	3.4%	3.3%	2.9%	2.4%	2.3%	2.0%	2.0%	2.0%	1.8%	2.6%
													1	
S	Station - 44 kV	LTR (MVA)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
1. E	Bramalea T3/T4 <sup>1</sup>	117.4	118	118	118	118	118	118	118	118	118	118	118	
2. E	Bramalea T5/T6	176.8	83	89	94	98	103	108	112	118	123	129	134	
3. 0	Goreway T4	95.4	33	34	36	37	38	40	41	42	44	45	47	
4. E	Erindale T5/T6	171.9	184	184	184	184	184	184	184	184	184	184	184	
5. E	Erindale T3/T4 <sup>2</sup>	209.1	216	231	243	254	266	277	289	291	293	295	297	
6. N	Meadowvale TS	200.7	201	201	201	201	201	201	201	201	201	201	201	
7. F	Pleasant T1/T2	164.5	148	153	157	162	166	171	176	181	185	191	196	
8. T	Tomken T1/T2	183.0	166	168	169	170	171	172	173	173	174	175	175	
9. T	Tomken T3/T4	202.9	180	181	182	183	183	184	185	185	186	187	187	
	Total:		1329	1359	1383	1407	1431	1455	1479	1494	1508	1525	1539	Avg.
$\dashv$	Growth Rate			2.3%	1.8%	1.7%	1.7%	1.7%	1.7%	1.0%	0.9%	1.1%	0.9%	1.5%

The numbers in bold indicate those that are at or above the station LTR. In some cases, there are LV capacitors at the stations which indirectly provide additional capacity at the station and effectively raises the LTR at the station. The numbers in bolded red indicate where the loading at the station has

<sup>&</sup>lt;sup>1</sup> Bramalea T3/T4 (44 kV) appears to be loaded beyond its summer 10-day LTR, however, this problem is addressed by local generation.

Includes load transfers from Meadowvale TS and from Erindale T5/T6.

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become larger than this inflated LTR value provided by the LV capacitors. In other cases, a voltage decline issue arose while the study was being conducted which indicated that the voltage decline at a particular station reached an unacceptable level prior to the station load being at capacity. These numbers were indicated in red, non-bolded font. All of the red numbers (bolded and non-bolded) indicate where load must be transferred to another station (new or existing) to mitigate operating risks.

For some stations where there was a single customer, it was necessary to review the non-coincident load forecast information in order to determine when the station peak would surpass the station LTR and further capacity or LV capacitors would be required to mitigate operating risks. These stations and/or DESNS are shown in Table A2. At stations where there were multiple customers reporting load forecasting information, coincident data was utilized to provide the need dates for additional transformation capacity.

Table A2: Non-Coincident Load Forecast

	Forecast Load in MVA											
	LTR	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Jim Yarrow MTS	174.0	120.6	138.2	154.6	169.5	184.9	200.8	217.4	234.5	252.1	270.5	286.7

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### **APPENDIX B:**

### **2024 Technical Assessment**

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All plans address the needs identified during the 10-year study period. These plans were further technically evaluated with respect to the long-term system planning requirements by assessing them for the expected year 2024 conditions. This method provides a snapshot of the long-term viability of each of the plans, and how each would perform under the increasing load growth that is expected in GTA West. The study participants provided load forecasts up to the year 2024. Specific loadflow results can be found in Appendix D.

All plans met the needs identified in the 10 year study period.

#### Plan A: V72R/V73R Extension, "Winston TS"

The assessment of Plan A through the years 2015 to 2024 identified the development of several future deficiencies in GTA West.

The overall system voltages in the study area were quite low, ranging from 232 kV at Pleasant TS. The loading at Pleasant TS is very high, and LV capacitors on the proposed Pleasant TS #3 LV buses would assist in supporting the voltage at this station. Additional reactive support may also be of benefit on the high voltage (HV) system at the proposed Hurontario SS.

Upon the loss of circuits R19T between Hurontario SS and Pleasant TS, the low voltages decline nearly 10% at Pleasant TS and decline more than 10% on the Pleasant TS #3 LV bus, under immediate post fault conditions. The loading at Pleasant TS #3 (27.6 kV) is beyond capacity (103% of the summer 10-day LTR) using the voltage varying load method. Under steady state post fault conditions, a voltage collapse occurs at Pleasant TS #3 by 2024, due to the high loading combined with the depressed voltage at both the transmission and subtransmission levels. This problem could be addressed with the addition of LV capacitors at Pleasant TS #3, or by transferring load from Pleasant TS #3 to another station. Of additional note is the overloading of circuit R21T between Hurontario SS and Pleasant TS. This was noticeable under steady state post fault conditions with the use of a pair of LV capacitors at Pleasant TS #3. Under this scenario, this circuit was loaded to 110% of its continuous rating, steady state post fault.

For the loss of the lower portion of circuit R19T, the low transmission system voltages contribute to the overload of Erindale T5 (106%) under steady state post fault conditions. There is plenty of capacity at Winston TS to transfer any excess load from Erindale TS (T5/T6). However, it is advisable that if the transmission system voltages can be well supported with reactive power, then the load will not have to be transferred.

The loss of circuit V73R identified that the 44 kV DESN at Goreway TS was loaded beyond its summer 10-day LTR. This significantly depresses the voltage levels at Goreway TS during a single contingency. The 44 kV DESN at Goreway TS is loaded to 131% under immediate post fault conditions (using the voltage varying load method) and to 167% under steady state post fault conditions. The 27.6 kV load at Goreway TS is also over the summer 10-day LTR (101%). However, there is spare capacity at Goreway TS #2 to transfer any excess load from Goreway TS.

The loss of circuit T38B identified that Meadowvale TS and Halton TS were above their summer 10-day LTRs (loaded to 102% and 100% respectively, under steady state post fault conditions). This is due to the overall depressed transmission system voltage. There is spare capacity at Winston TS and Steeles TS to transfer load from Meadowvale TS and Halton TS, respectively.

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However, if the transmission system voltages can be improved with reactive support, load would not have to be transferred.

#### Plan B: T38B/T39B Extension, "Winston TS"

Plan B also meets all of the needs identified in the study period. The same deficiencies arose at Pleasant TS #3 and Goreway TS as well as on circuits R19T and R21T between Hurontario SS and Pleasant TS. The problems at Erindale TS and Meadowvale TS were also present as well.

With the extension of circuits T38B and T39B (Plan B), circuits R19T/R21T was offloaded more in Plan B in comparison to Plan A, as previously identified in section 8.1. The HV system voltages are approximately 2 to 3 kV lower for Plan B than for Plan A.

#### Plan C: V72R/V73R Extension, Meadowvale TS #2

Plan C performed slightly worse than Plan A. Meadowvale TS #2 had lower voltages than Winston TS (234.9 kV versus 237.8 kV). Overall, the voltages on the Meadowvale TS/Halton TS tap are lower for Plan C compared to Plan A.

The contingency where circuit T38B or T39B was forced from service is of concern for Plan C. Under immediate post fault conditions, the LV buses at Halton TS declined nearly 10% using the voltage varying load method. Under steady state post fault conditions, the system voltages for Plan C were generally lower than for Plan A. As well, the following segments of the inservice circuit (T39B) was loaded over 95% of its continuous rating (the same results would be expected on T38B with T39B removed from service). Hornby Junction by Trafalgar DESN Junction was 95.5% of its continuous rating, and Lantz Junction by Trafalgar DESN Junction was 103.4% of its continuous rating. Under the implementation of Plan C, these line sections would require reconductoring sometime between 2015 and 2024. Halton TS and Meadowvale TS are overloaded sometime before 2024 under steady state post fault conditions.

Overall, Plan C did not perform, technically, as well as Plan A. There are indications that the addition of Meadowvale TS #2 could lead to transmission problems on circuits T38B/T39B as well as voltage problems on the Meadowvale TS/Halton TS tap well into the future.

#### Plan D: T38B/T39B Extension, Meadowvale TS #2

Due to the fact that the LDCs preferred the option of Winston TS over Meadowvale TS #2, and the extension of circuits V72R/V73R was more cost effective than the extension of circuits T38B/T39B, this option was not reviewed further.

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#### Revised Schedule "B" (Churchill Meadows Transformer Station)

#### **SCHEDULE B REVISION DATE**

May 16, 2013

#### **READY FOR SERVICE DATE**

July 27, 2010

#### TRANSFORMATION CONNECTION POOL WORK

Estimate of the Engineering and Construction Cost of the Transformation Connection Pool Work: \$31.8M Total\*

\*Includes \$29.4M for Churchill Meadows TS plus \$2.4M for Erindale TS T5 Replacement.

Estimate of Transformation Connection Pool Work Capital Contribution: \$4.6M

**Actual Engineering and Construction Cost of the Transformation Connection Pool Work:** \$27,332,000

Actual Transformation Connection Pool Work Capital Contribution: \$2,416,400

Capital Contribution Includes the Cost of Capacity Not Needed by the Customer: Not applicable

#### LINE CONNECTION POOL WORK

Estimate of the Engineering and Construction Cost of the Line Connection Pool Work: \$1.5M

**Estimate of Line Connection Pool Work Capital Contribution: \$0** 

Actual Engineering and Construction Cost of the Line Connection Pool Work: \$991,900

**Actual Line Connection Pool Work Capital Contribution: \$0** 

Capital Contribution Includes the Cost of Capacity Not needed by the Customer: Not applicable

#### NETWORK CUSTOMER ALLOCATED WORK

**Estimate of the Engineering and Construction Cost of the Network Customer Allocated Work:** \$100k (For P&C work at Networks facilities)

**Estimate of Network Customer Allocated Work Capital Contribution: \$0** 

Actual Engineering and Construction Cost of the Network Customer Allocated Work: \$244,038

**Actual Network Customer Allocated Work Capital Contribution:** \$0

Churchill Meadows TS - Nov 24, 2008

#### **NETWORK POOL WORK (NON-RECOVERABLE FROM CUSTOMER):**

The estimated Engineering and Construction Cost of the Network Pool Work (Non-Recoverable from Customer) is \$0.

#### WORK CHARGEABLE TO CUSTOMER

**Estimate of the Engineering and Construction Cost of the Work Chargeable to Customer:** \$93k for LV bus revenue metering IT installation

Actual Engineering and Construction Cost of the Work Chargeable to Customer: \$143,080

### MANNER OF PAYMENT OF THE ESTIMATE OF CAPITAL CONTRIBUTIONS AND WORK CHARGEABLE TO CUSTOMER

The Customer shall pay Hydro One the estimate of the Transformation Connection Pool Work Capital Contribution, the Estimate of Line Connection Pool Work Capital Contribution, the estimate of the Network Customer Allocated Work Capital Contribution and the estimate of the Engineering and Construction Cost of the Work Chargeable to Customer by making the progress payments specified below on or before the Payment Milestone Date specified below. Hydro One will invoice the Customer for each progress payment 30 days prior to the Payment Milestone Date.

The Customer did provide a deposit of \$350k on October 5, 2007. This amount is to be applied towards payments required.

Payment Milestone Date	Transformation Pool Work Capital Contribution	Line Pool Work Capital Contribution	Network Customer Allocated Work Capital Contribution (P&C work at Networks facilities)	Work Chargeable To Customer (LV bus revenue metering IT installation)	Total Payment Required
Oct. 5/07	\$350,000	0	0	0	\$350,000
Feb. 1/09	\$1,410,000	0	\$50,000	\$31,000	\$1,491,000
Sept. 1/09	\$1,410,000	0	0	\$31,000	\$1,441,000
May 1/10	\$1,430,000	0	\$50,000	\$31,000	\$1,511,000
Total	\$4,600,000	0	\$100,000	\$93,000	\$4,793,000

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Attachment L

Churchill Meadows TS - Nov 24, 2008

# TRANSFORMATION CONNECTION REVENUE REQUIREMENTS AND LOAD PORTECAST AT THE NEW OR MODIFIED CONNECTION FACILITIES

Annual Period Ending On:	New Load** (MW)	Part of New Load Exceeding Normal Capacity of Existing Load Facilities [A] (Note 1)	Adjusted Load Forecast (MW) [B]	Transformation Connection Revenue (k\$) for True-Up, based on [A] or [B], whichever is applicable
1st Anniversary of In Service Date	0	0	0	0
2 <sup>nd</sup> Anniversary of In Service Date	0	0	0	0
3 <sup>rd</sup> Anniversary of In Service Date	60.9	60.9	60.9	1,176.7
4 <sup>th</sup> Anniversary of In Service Date	111.4	111.4	111.4	2,152.2
5 <sup>th</sup> Anniversary of In Service Date	122.5	122.5	122.5	2,368.1
6 <sup>th</sup> Anniversary of In Service Date	132.2	132.2	132.2	2,555.5
7 <sup>th</sup> Anniversary of In Service Date	140.5	140.5	140.5	2,715.9
8 <sup>th</sup> Anniversary of In Service Date	147.6	147.6	147.6	2,853.1
9 <sup>th</sup> Anniversary of In Service Date	153.9	153.9	153.9	2,975.5
10 <sup>th</sup> Anniversary of In Service Date	159.9	159.9	159.9	3,091.1
11 <sup>th</sup> Anniversary of In Service Date	165.7	165.7	165.7	3,202.8
12 <sup>th</sup> Anniversary of In Service Date	171.3	171.3	171.3	3,310.8
13 <sup>th</sup> Anniversary of In Service Date	174.1	174.1	174.1	3,364.2
14 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	174.4	3,370.7
15 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	174.4	3,370.7
16 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	174.4	3,370.7
17 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	174.4	3,370.7
18 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	174.4	3,370.7
19th Anniversary of In Service Date	174.4	174.4	174.4	3,370.7
20 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	174.4	3,370.7
21st Anniversary of In Service Date	174.4	174.4	174.4	3,370.7
22 <sup>nd</sup> Anniversary of In Service Date	174.4	174.4	174.4	3,370.7
23 <sup>rd</sup> Anniversary of In Service Date	174.4	174.4	174.4	3,370.7
24 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	174.4	3,370.7
25 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	174.4	3,370.7

Average monthly peak load is estimated assuming a Peak Load Index of 0.81.

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Attachment L

### Churchill Meadows TS - Nov 24, 2008

# LINE CONNECTION REVENUE REQUIREMENTS AND LOAD FORECAST A PORTION NEW OR MODIFIED CONNECTION FACILITIES

Annual Period Ending On:	New Load** - (MW)	Part of New Load Exceeding Normal Capacity of Existing Load Facilities [C]	Adjusted Load Forecast (MW) [D]	Line Connection Revenue (k\$) for True-Up, Based on [C] or [D], whichever is applicable
1 <sup>st</sup> Anniversary of In Service Date	67.5	67.5	0	0
2 <sup>nd</sup> Anniversary of In Service Date	82.3	82.3	0	0
3 <sup>rd</sup> Anniversary of In Service Date	96.4	96.4	7.4	52.6
4 <sup>th</sup> Anniversary of In Service Date	109.4	109.4	13.5	96.1
5 <sup>th</sup> Anniversary of In Service Date	120.8	120.8	14.8	105.8
6 <sup>th</sup> Anniversary of In Service Date	130.7	130.7	16	114.1
7 <sup>th</sup> Anniversary of In Service Date	139.2	139.2	17	121.3
8 <sup>th</sup> Anniversary of In Service Date	146.5	146.5	17.9	127.4
9 <sup>th</sup> Anniversary of In Service Date	152.9	152.9	18.6	132.9
10 <sup>th</sup> Anniversary of In Service Date	158.9	158.9	19.4	138.1
11 <sup>th</sup> Anniversary of In Service Date	164.8	164.8	20.1	143.1
12 <sup>th</sup> Anniversary of In Service Date	170.4	170.4	20.7	147.9
13 <sup>th</sup> Anniversary of In Service Date	173.9	173.9	21.1	150.3
14 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	21.1	150.6
15 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	21.1	150.6
16 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	21.1	150.6
17 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	21.1	150.6
18 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	21.1	150.6
19th Anniversary of In Service Date	174.4	174.4	21.1	150.6
20 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	21.1	150.6
21 <sup>st</sup> Anniversary of In Service Date	174.4	174.4	21.1	150.6
22 <sup>nd</sup> Anniversary of In Service Date	174.4	174.4	21.1	150.6
23 <sup>rd</sup> Anniversary of In Service Date	174.4	174.4	21.1	150.6
24 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	21.1	150.6
25 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	21.1	150.6

Average monthly peak load is estimated assuming a Peak Load Index of 0.81.

Attachment L

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## NETWORK REVENUE REQUIREMENTS AND LOAD FORECAST AT THE NEW OR MODIFIED CONNECTION FACILITIES

Annual Period Ending On:	New Load** - (MW)	Part of New Load Exceeding Normal Capacity of Existing Load Facilities [C]	Adjusted Load Forecast (MW) [D]	Network Revenue (k\$) for True-Up, Based on [C] or [D], whichever is applicable
1 <sup>st</sup> Anniversary of In Service Date	67.5	67.5	0	0
2 <sup>nd</sup> Anniversary of In Service Date	82.3	82.3	0	0
3 <sup>rd</sup> Anniversary of In Service Date	96.4	96.4	0.5	12.9
4 <sup>th</sup> Anniversary of In Service Date	109.4	109.4	0.9	23.6
5 <sup>th</sup> Anniversary of In Service Date	120.8	120.8	0.9	26
6 <sup>th</sup> Anniversary of In Service Date	130.7	130.7	1	28.1
7 <sup>th</sup> Anniversary of In Service Date	139.2	139.2	1.1	29.8
8 <sup>th</sup> Anniversary of In Service Date	146.5	146.5	1.1	31.3
9 <sup>th</sup> Anniversary of In Service Date	152.9	152.9	1.2	32.7
10 <sup>th</sup> Anniversary of In Service Date	158.9	158.9	1.2	34
11 <sup>th</sup> Anniversary of In Service Date	164.8	164.8	1.3	35.2
12 <sup>th</sup> Anniversary of In Service Date	170.4	170.4	1.3	36.4
13 <sup>th</sup> Anniversary of In Service Date	173.9	173.9	1.3	37
14 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	1.3	37
15 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	1.3	37
16 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	1.3	37
17 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	1.3	37
18 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	1.3	37
19th Anniversary of In Service Date	174.4	174.4	1.3	37
20 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	1.3	37
21st Anniversary of In Service Date	174.4	174.4	1.3	37
22 <sup>nd</sup> Anniversary of In Service Date	174.4	174.4	1.3	37
23 <sup>rd</sup> Anniversary of In Service Date	174.4	174.4	1.3	37
24 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	1.3	37
25 <sup>th</sup> Anniversary of In Service Date	174.4	174.4	1.3	37

Average monthly peak load is estimated assuming a Peak Load Index of 0.81.

\*\* New Load based on Customer's Load Forecast which includes Part of New Load Exceeding Normal Capacity of Existing Load Facilities. "Overload" derived in accordance with Section 6.7.9 of the Transmission System Code and the OEB-Approved Connection Procedures. Any Customer load below the Normal Capacity of the Existing Load Facilities transferred to the New or Modified Facilities will not be credited towards the Transformation Connection Revenue Requirements, Line Connection Revenue Requirements or the Network Connection Revenue Requirements. The discounted cash flow calculation for Network Revenue requirements will be based on Incremental Network Load which is New Load less the amount of load, if any, that has been by-passed by the Customer at any of Hydro One's connection facilities.