



MILTON HYDRO DISTRIBUTION INC.

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August 4, 2016

Ms. Kirsten Walli, Board Secretary
Ontario Energy Board
P.O. Box 2319
2300 Young Street
27th Floor
Toronto, ON
M4P 1E4

**Re: Application for LRAMVA Recovery 2011 to 2014 CDM
Re-Filing under the Original OEB File No. EB-2015-0089
Request Disposition by Delegated Authority**

Milton Hydro Distribution Inc. ("Milton Hydro") filed a Cost of Service Rate Application on August 28, 2015 for rates effective May 1, 2016. Included in the Application was Milton Hydro's request for recovery of its Lost Revenue related to its 2011 to 2014 Conservation and Demand Management programs.

Milton Hydro's LRAM calculations and evidence were tested by OEB Staff and Intervenors. In response to the Vulnerable Energy Consumers Coalition interrogatory Milton Hydro update its LRAM claim to the IESO 2011-2014 Final Results Report for the IESO-contracted Province-Wide CDM programs for final recovery. Milton Hydro's LRAM claim was further tested during the Settlement Conference where Milton Hydro's LRAM claim remained unsettled due to the disagreement relating to the calculation of the kW demand to be used in the LRAM calculations. This issue was resolved in the May 19, 2016 OEB Report on "Updated Policy for the Lost Revenue Adjustment Mechanism Calculation: Lost Revenues and Peak Demand Savings from Conservation and Demand Management Programs" ("the Report"). Milton Hydro's LRAM claim meets the requirements set out in the Report.

Milton Hydro respectfully requests that this Application be disposed of by way of Delegated Authority for the reasons set out in the Application.

Yours truly,

Original signed by

Cameron McKenzie, CPA, CGA
Director, Regulatory Affairs

IN THE MATTER OF the *Ontario Energy Board Act, 1998*, S.O. 1998, c.15, 3 Schedule B, as amended (the “OEB Act”);

AND IN THE MATTER OF an Application by Milton Hydro Distribution Inc. under Section 78 of the OEB Act to the Ontario Energy Board for an Order or Orders approving or fixing just and reasonable rates and other service charges for the distribution of electricity as of November 1, 2016.

MILTON HYDRO DISTRIBUTION INC. (“Milton Hydro”)

**APPLICATION FOR APPROVAL OF 2011 – 2014 CONSERVATION &
DEMAND MANAGEMENT LOST REVENUE.**

OEB File No. EB-2016-0242

Re-Filed: August 4, 2016

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CONSERVATION AND DEMAND MANAGEMENT ("CDM") COSTS

Lost Revenue Adjustment Mechanism ("LRAMVA") for 2011-2014

The Applicant is Milton Hydro Distribution Inc. ("Milton Hydro"). Milton Hydro is a corporation incorporated pursuant to the *Ontario Business Corporations Act* with its head office in the Town of Milton. Milton Hydro carries on the business of distributing electricity within the Town of Milton.

Milton Hydro has followed Chapter 2 of the OEB's *Filing Requirements for Electricity Distribution Rate Applications* last revised on July 18, 2015 (the "Filing Requirements") in preparing this Application for recovery of its Lost Revenue Adjustment Mechanism Variance Account ("LRAMVA").

Approvals Requested

In this Application Milton Hydro is requesting the following approvals:

1. Approval of the rate riders for the disposition of the Lost Revenue Adjustment Mechanism Variance Account ("LRAMVA") for lost revenue resulting from 2011 to 2014 Independent Electricity System Operator ("IESO") contracted Province-Wide Conservation Demand Management ("CDM") programs in the amount of \$143,028 including carrying charges to October 31, 2016 in the amount of \$4,900 as detailed below.

Proposed Effective Date of Rate Order

Milton Hydro requests that the OEB make this Rate Order effective November 1, 2016, which will coincide with the implementation date of the updated Electricity charges for Regulated Price Plan customers and thereby accommodating a change to rates effective at the same time.

Form of Hearing

Milton Hydro requests that this Application be disposed of by way of Delegated Authority for the reasons set out below.

Certification

I, Frank Lasowski, President and Chief Executive Officer of Milton Hydro Distribution Limited, certify that the evidence filed is accurate, consistent, and complete to the best of my knowledge.

Frank Lasowski
President and Chief Executive Officer

Background

On March 31, 2011, the Minister of Energy and Infrastructure issued a directive (the "Directive") to the OEB regarding electricity CDM targets to be met by licensed electricity distributors. The Directive required that the Board amend the licenses of distributors to add, as a condition of license, the requirement for distributors to achieve reductions in electricity demand through the delivery of CDM programs over a four-year period beginning January 1, 2011. Section 12 of the Directive required that the OEB have regard to the objective that lost revenues that result from CDM Programs should not act as a disincentive to a distributor.

On April 26, 2012, the OEB issued Guidelines for Electricity Distributor Conservation and Demand Management (EB-2012-0003 – the "CDM Guidelines"). In keeping with the Directive, the OEB adopted a mechanism to capture the difference between the results of actual, verified impacts of authorized CDM activities undertaken by distributors between 2011 and 2014 and the level of activities embedded into rates through the distributors load forecast in an LRAM variance account.

The Conservation and Demand Management Code for Electricity Distributors ("the CDM Code") sets out the obligations and requirements with which electricity distributors must comply in relation to the CDM targets set out in their licenses. The CDM Code also sets out the conditions and rules that licensed electricity distributors are required to follow if they choose to apply for OEB-Approved CDM programs to meet the CDM targets. The CDM Code applies to the four year period January 1, 2011 to December 31, 2014.

In its CDM Guidelines the OEB provided additional guidance on certain provisions in the CDM Code and details on the Lost Revenue Adjustment Mechanism ("LRAM") related to CDM

programs implemented under the CDM Code. The CDM Guidelines are applicable to this same timeframe.

In the CDM Guidelines, the OEB authorized the establishment of LRAMVA Account 1568 (LRAMVA) to capture, at the customer rate class level, the difference between:

- The results of actual, verified impacts of authorized CDM activities undertaken by distributors between 2011 and 2014 for both OEB-Approved CDM programs and IESO-Contracted Province-Wide CDM programs in relation to activities undertaken by the distributor and/or are delivered for the distributor by a third party under contract (in the distributor's franchise area), and;
- The level of CDM program activities included in the distributor's load forecast (i.e. the level embedded in rates).

The OEB stated that distributors are generally expected to include a CDM component in their load forecast in Cost of Service proceedings to ensure that customers are realizing the true effects of conservation at the earliest date possible and to mitigate the variance between forecasted revenue losses and actual revenue losses. Further, if a distributor has included a CDM load reduction forecast in its distribution rates, the amount of the forecast that was adjusted for CDM at the rate class level would be compared to the actual CDM results verified by an independent third party for each year of the CDM program in accordance with the IESO's EM&V Protocols as set out in the CDM Code. The calculated variance results in a credit or debit payable or receivable to the ratepayers. This account will continue on a going-forward basis.

Milton Hydro is not currently running any OEB-approved CDM programs and therefore in accordance with the Filing Requirements a separate third party review of the distributor's IESO-contracted Province-Wide CDM programs ("IESO programs") is not required.

In its CDM Guidelines, the OEB stated that the LRAMVA will attract carrying charges.

Further, the OEB stated that it expected distributors to apply for disposition of the balance in the LRAMVA in their next Cost of Service Rate Application.

Milton Hydro has been successfully running IESO programs within its service territory since 2005. The OPA legacy programs ran, for the most part, until the end of 2010 (although there was some carry-over into 2011). New IESO programs began in 2011 following the creation of mandatory CDM targets and requirements of LDCs to attain the targets as a condition of their

licence. Milton Hydro successfully ran the new IESO programs in 2011-2014 and continues to do so.

LRAM for pre-2011 CDM Activities

Milton Hydro is not requesting recovery of lost revenue resulting from any pre-2011 CDM activities or legacy programs completed in 2011.

The Application

Milton Hydro filed for recovery of its LRAMVA in its 2016 Cost of Service Rate Application EB-2015-0089. During the interrogatory process OEB Staff and intervenors tested Milton Hydro's evidence on the calculation of the LRAMVA balance including the distribution rates used, the kWh and kW as provided in the IESO 2011-2014 Final Results Report and the carrying charges.

In addition, Milton Hydro's LRAMVA balance was further tested during the Settlement Conference held on January 25 and 26, 2016. However, as provided in Milton Hydro's Settlement Proposal the recovery of the 2011-2014 LRAMVA was not settled:

- Recovery of the 2011-2014 LRAMVA. The parties agree that this issue should be dealt with by way of a written hearing, as the subject matter of the disagreement among the Parties relates to the calculation of the kW demand to be used in the calculation of the LRAMVA, and the facts needed to address this issue are already publicly available.

As the issue related to the calculation of the kW demand to be used in the calculation of the LRAMVA could not be settled and has been discussed in other rate applications it was suggested to OEB Staff that this was a generic issue that ought to be dealt with separately by the Ontario Energy Board ("OEB") for all distributors. On February 24, 2016 the Independent Electricity System Operator ("IESO") issued a "Memorandum on the Application of Demand Savings in Final Verified Conservation Results in LDC LRAM Claims" in response to inquiries by both the OEB and Local Distribution Companies ("LDC's"). The Memorandum provides clarification on the definition of demand savings used by the IESO in its reports to LDCs regarding final verified CDM results. Attachment A.

On March 3, 2016 the OEB issued a letter to all parties on the “Application of Demand Savings in Final Verified Conservation Results in LDC Lost Revenue Adjustment Mechanism (LRAM) Claims”. The letter advised LDCs and interested parties that “The OEB is holding a meeting on March 31, 2016 to gather input on the approach to recording the revenue impact of demand (kW) savings in the lost revenue adjustment mechanism variance account (LRAMVA). The OEB expects to provide further policy guidance on the LRAMVA following this meeting.” Attachment B.

On May 19, 2016 the OEB issued its Report on “Updated Policy for the Lost Revenue Adjustment Mechanism Calculation: Lost Revenues and Peak Demand Savings from Conservation and Demand Management Programs.” The Report outlined the “OEB policy with respect to the inclusion of peak demand (kW) savings into the Lost Revenue Adjustment Mechanism Variance Account - LRAMVA calculation for demand-billed customers.” Attachment C. The Report included the following Table 1 which sets out the number of months to use when calculating the kW demand savings for the different programs.

Table 1 – Demand Savings from Energy Efficiency Programs

Initiative Months	Application of Demand Savings -		
Business Program	Months	Number of Months	Notes
Retrofit	All	12	
Direct Install Lighting	All	12	
Building Commissioning*	Jun, Jul, Aug	3	
New Construction	All	12	
Energy Audit	All	12	
Small Commercial Demand Response	N/A	0	DR programs are not energy efficiency programs. They aim to reduce usage only at peak times.
Small Commercial Demand Response (IHD)	N/A	0	
Demand Response 3	N/A	0	
Industrial Program	Months	Number of Months	Notes
Process & System Upgrades	All	12	
Monitoring & Targeting	All	12	
Energy Manager	All	12	
Retrofit	All	12	
Demand Response 3	N/A	0	See DR note above
Aboriginal Program	Months	Number of Months	Notes
Direct Install Lighting	All	12	

- * Peak demand savings from the Building Commissioning are cooling related and only occur during the summer.

Milton Hydro did not have Building Commissioning or Demand Response Programs during 2011 to 2014 and therefore used twelve months of kW demand, as reported in the IESO 2011-2014 Final Results Report, in the calculations of its LRAMVA. The calculation of the kW demand savings complies with the above Table 1.

Milton Hydro's LRAMVA claim in the amount of \$138,128 is set out in the following Table 2. In response to the Vulnerable Energy Consumers Coalition's ("VECC's") interrogatory 9.0 –VECC-41, Milton Hydro updated its LRAMVA claim for the IESO 2011-2014 Final Results Report for the IESO-contracted Province-Wide CDM programs. The 2011-2014 Final Results Report is included as Attachment D.

The Load Forecast information was further updated in response to interrogatories from VECC and as filed in Milton Hydro's Settlement Proposal "The Parties accept the evidence of Milton Hydro that the customer forecast, loss factors, CDM adjustments and the resulting billing determinants are appropriate and are an appropriate reflection of the energy and demand requirements of the Applicant's customers."

Table 2
Calculations of LRAMVA

Summary Units Lost	2011 kwh Saved	2012 kwh Saved	2013 kwh Saved	2014 kwh Saved	Total kWh Saved
Residential	556,986	891,600	1,258,268	2,848,868	5,555,722
General Service <50 kW	242,642	564,699	991,797	1,531,945	3,331,083
General Service 50 -999 kW	6,159	8,142	11,707	15,207	41,215
General Service 1000 - 4999	2,160	2,689	3,056	3,528	11,434
Large User	195	232	835	835	2,097
Rate Class Distribution Volumetric Rates					
	2011	2012	2013	2014	
Residential (kWh)	0.0135	0.0129	0.0135	0.0141	
General Service <50 kW (kWh)	0.0164	0.0167	0.0169	0.0171	
General Service 50 -999 kW (kW)	2.4361	2.4232	2.4837	2.5456	
General Service 1000 - 4999 kW (kW)	2.9483	2.7577	2.7251	2.7802	
Large User (kw)	2.4087	2.2844	2.2030	2.2026	
CDM Lost Revenue - LRAM\$					
	2011	2012	2013	2014	Total
Residential (kWh)	\$ 7,501	\$ 11,472	\$ 16,945	\$ 40,074	\$ 75,991
General Service <50 kW (kWh)	\$ 3,979	\$ 9,449	\$ 16,761	\$ 26,247	\$ 56,437
General Service 50 -999 kW (kW)	\$ 15,005	\$ 19,729	\$ 29,076	\$ 38,711	\$ 102,521
General Service 1000 - 4999 kW (kW)	\$ 6,368	\$ 7,416	\$ 8,329	\$ 9,809	\$ 31,923
Large User (kw)	\$ 470	\$ 531	\$ 1,839	\$ 1,839	\$ 4,678
CDM in 2011 Forecast					
	2011	2012	2013	2014	Total
Residential (kWh)	1,227,764	1,227,764	1,227,764	1,227,764	4,911,056
General Service <50 kW (kWh)	363,580	363,580	363,580	363,580	1,454,320
General Service 50 -999 kW (kW)	2,451	2,451	2,451	2,451	9,805
General Service 1000 - 4999 kW (kW)	1,053	1,053	1,053	1,053	4,212
Large User (kw)	750	750	750	750	2,999
CDM in 2011 Forecast\$					
	2011	2012	2013	2014	Total
Residential (kWh)	\$ 16,534	\$ 15,797	\$ 16,534	\$ 17,271	\$ 66,136
General Service <50 kW (kWh)	\$ 5,963	\$ 6,084	\$ 6,145	\$ 6,229	\$ 24,420
General Service 50 -999 kW (kW)	\$ 5,972	\$ 5,940	\$ 6,088	\$ 6,240	\$ 24,240
General Service 1000 - 4999 kW (kW)	\$ 3,104	\$ 2,904	\$ 2,869	\$ 2,927	\$ 11,805
Large User (kw)	\$ 1,806	\$ 1,713	\$ 1,652	\$ 1,651	\$ 6,822
LRAMVA=LRAM\$-2011 Forecast\$					
	2011	2012	2013	2014	Total
Residential (kWh)	\$ (9,033)	\$ (4,325)	\$ 411	\$ 22,804	\$ 9,856
General Service <50 kW (kWh)	\$ (1,983)	\$ 3,365	\$ 10,617	\$ 20,018	\$ 32,017
General Service 50 -999 kW (kW)	\$ 9,033	\$ 13,789	\$ 22,988	\$ 32,471	\$ 78,281
General Service 1000 - 4999 kW (kW)	\$ 3,264	\$ 4,512	\$ 5,460	\$ 6,882	\$ 20,118
Large User (kw)	\$ (1,336)	\$ (1,182)	\$ 187	\$ 187	\$ (2,144)
Total	\$ (56)	\$ 16,159	\$ 39,662	\$ 82,362	\$ 138,128

Milton Hydro has calculated the Rate Riders to recover the LRAMVA including carrying charges to October 31, 2016, using the load forecast accepted in Milton Hydro’s Settlement Proposal. Milton Hydro is proposing to recover the LRAMVA claim over a six month period November 1, 2016 to April 30, 2017 as set out in the following Table 3. The effective date will coincide with the implementation of the OEB’s updated Electricity Rates for Regulated Price Plan customers.

Table 3
LRAMVA Rate Riders

Description	LRAM\$	2011 Forecast\$	Net LRAMVA	Carrying Charges to April 2016	Total LRAMVA Claim	Proposed Billing Determinant	Unit	LRAMVA Rate Rider
Residential (kWh)	\$ 75,991	\$ 66,136	\$ 9,856	\$ (245)	\$ 9,611	311,504,507	kWh	0.0001
General Service <50 kW (kWh)	\$ 56,437	\$ 24,420	\$ 32,017	\$ 1,059	\$ 33,075	91,412,832	kWh	0.0007
General Service 50 -999 kW (kW)	\$ 102,521	\$ 24,240	\$ 78,281	\$ 3,320	\$ 81,601	555,651	kW	0.2937
General Service 1000 - 4999 kW (kW)	\$ 31,923	\$ 11,805	\$ 20,118	\$ 917	\$ 21,034	245,808	kW	0.1711
Large User (kW)	\$ 4,678	\$ 6,822	\$ (2,144)	\$ (151)	\$ (2,294)	260,162	kW	-0.0176
Total	\$ 271,551	\$ 133,423	\$ 138,128	\$ 4,900	\$ 143,028			

Testing of the Evidence

The testing of Milton Hydro’s LRAMVA claim was completed throughout the rate application process with the only outstanding issue remaining being the kW demand to be used in the LRAMVA calculations which has been subsequently resolved by the OEB.

Interrogatories and Milton Hydro’s Responses

Milton Hydro’s 2016 Cost of Service Application included the request for recovery of its LRAMVA claim. As discussed above, OEB staff and intervenors tested Milton Hydro’s evidence filed in support of its LRAMVA claim. For the convenience of the OEB, Milton Hydro has provided the interrogatories and responses on its LRAMVA recovery as filed with the OEB during Milton Hydro’s 2016 Cost of Service proceeding.

EXHIBIT 9 – DEFERRAL AND VARIANCE ACCOUNTS

9.0-Staff-74

Ref: Exhibit 9, p. 5 LRAMVA Disposition

Please provide a table that lists all the appropriate OPA CDM Initiatives that produced net CDM savings which were used in the LRAMVA calculations. For each rate class, please list all relevant CDM initiatives in the applicable year and provide the subsequent net CDM savings for each.

Response:

Milton Hydro has provided the following tables, by year that lists all the appropriate OPA CDM Initiatives that produced net CDM savings which were used in the LRAMVA calculations.

2011	Annual	
Residential	Net kWh	Net kW
Appliance Retirement	71,041	
Appliance Exchange	3,453	
HVAC Incentives	144,984	
Conservation Instant Coupon Booklet	157,697	
Bi-Annual Retailer Event	179,811	
Residential New Construction	-	
Home Assistance Program		
Total	556,986	
Volumetric Rate Used	0.0135	
Lost Revenues	7,501	
GS<50 kW	Net kWh	Net kW
Retrofit	216,760	
Direct Install Lighting	25,882	
New Construction	-	
Energy Audit	-	
Small Commercial Demand Response	-	
Total	242,642	
Volumetric Rate Used	0.0164	
Lost Revenues	3,979	
GS>50 kW	Net kWh	Net kW
Retrofit	1,540,509	4,000
New Construction	646,580	2,160
Energy Audit		
Total	2,187,089	6,160
Volumetric Rate Used		2.4361
Lost Revenues		15,005
GS>1000 kW	Net kWh	Net kW
Retrofit		
New Construction	646,581	2,160
Total	646,581	2,160
Volumetric Rate Used		2.9483
Lost Revenues		6,368
Large Use	Net kWh	Net kW
Retrofit	101,708	196
Total	101,708	196
Volumetric Rate Used		2.4087
Lost Revenues		471

2012	Cumulative	
Residential	Net kWh	Net kW
Appliance Retirement	121,985	
Appliance Exchange	7,184	
HVAC Incentives	261,325	
Conservation Instant Coupon Booklet	165,660	
Bi-Annual Retailer Event	332,346	
Residential New Construction	-	
Home Assistance Program	3,100	
Total	891,600	
Volumetric Rate Used	0.0129	
Lost Revenues	11,472	
GS<50 kW	Net kWh	Net kW
Retrofit	537,567	
Direct Install Lighting	27,132	
New Construction	-	
Energy Audit	-	
Small Commercial Demand Response	-	
Total	564,699	
Volumetric Rate Used	0.0167	
Lost Revenues	9,449	
GS>50 kW	Net kWh	Net kW
Retrofit	2,550,980	5,982
New Construction	646,580	2,160
Energy Audit	-	-
Total	3,197,560	8,142
Volumetric Rate Used		2.4232
Lost Revenues		19,729
GS>1000 kW	Net kWh	Net kW
Retrofit	274,740	517
New Construction	647,205	2,172
Total	921,945	2,689
Volumetric Rate Used		2.7577
Lost Revenues		7,416
Large Use	Net kWh	Net kW
Retrofit	137,167	232
Total	137,167	232
Volumetric Rate Used		2.2844
Lost Revenues		531

2013	Cumulative	
	Net kWh	Net kW
Residential		
Appliance Retirement	157,939	
Appliance Exchange	13,095	
HVAC Incentives	411,539	
Conservation Instant Coupon Booklet	209,692	
Bi-Annual Retailer Event	430,194	
Residential New Construction	-	
Home Assistance Program	35,809	
Total	1,258,268	
Volumetric Rate Used	0.0135	
Lost Revenues	16,945	
GS<50 kW	Net kWh	Net kW
Retrofit	905,970	
Direct Install Lighting	37,344	
New Construction	-	
Energy Audit	48,483	
Small Commercial Demand Response	-	
Total	991,797	
Volumetric Rate Used	0.0169	
Lost Revenues	16,761	
GS>50 kW	Net kWh	Net kW
Retrofit	3,486,729	7,567
New Construction	1,456,610	4,140
Energy Audit	-	-
Total	4,943,339	11,707
Volumetric Rate Used		2.4837
Lost Revenues		29,076
GS>1000 kW	Net kWh	Net kW
Retrofit	291,362	572
New Construction	812,616	2,484
Total	1,103,978	3,056
Volumetric Rate Used		2.7251
Lost Revenues		8,329
Large Use	Net kWh	Net kW
Retrofit	493,814	835
Total	493,814	835
Volumetric Rate Used		2.2030
Lost Revenues		1,839

2014	Cumulative	
Residential	Net kWh	Net kW
Appliance Retirement	180,616	
Appliance Exchange	20,484	
HVAC Incentives	580,137	
Conservation Instant Coupon Booklet	370,060	
Bi-Annual Retailer Event	1,130,186	
Residential New Construction	495,916	
Home Assistance Program	71,469	
Total	2,848,868	
Volumetric Rate Used	0.0141	
Lost Revenues	40,074	
GS<50 kW	Net kWh	Net kW
Retrofit	1,260,344	
Direct Install Lighting	96,123	
New Construction	126,995	
Energy Audit	48,483	
Small Commercial Demand Response	-	
Total	1,531,945	
Volumetric Rate Used	0.0171	
Lost Revenues	26,247	
GS>50 kW	Net kWh	Net kW
Retrofit	4,819,000	10,731
New Construction	1,536,218	4,320
Energy Audit	65,274	156
Total	6,420,492	15,207
Volumetric Rate Used		2.5456
Lost Revenues		38,711
GS>1000 kW	Net kWh	Net kW
Retrofit	449,456	852
New Construction	892,224	2,676
Total	1,341,680	3,528
Volumetric Rate Used		2.7802
Lost Revenues		9,809
Large Use	Net kWh	Net kW
Retrofit	493,814	835
Total	493,814	835
Volumetric Rate Used		2.2026
Lost Revenues		1,839

9.0 –VECC -41

Reference: E9/pg.11

- a) Has Milton Hydro received the OPA Final Report for 2014?
- b) If yes, please provide the Report and show any changes required to LRAMVA 1568 balances.

Response:

- a) Milton Hydro has received its OPA Final Report for 2014
- b) Milton Hydro has attached the OPA Final Report for 2014 in response to VECC interrogatory 3.0-VECC -19. Milton Hydro has attached its revised calculations for recovery of the LRAMVA 1568 balances in the following tables,[Tables 2 and 3 above]

Milton Hydro would note that the EDDVAR model calculates the Residential rate rider for the LRAM recovery based on the number of Residential customers which is incorrect. There is an error in the formula. Milton Hydro's calculation below [above] is based on kWhs.

4.0 -VECC -34

Reference: E4/pages 78-83 and Attachment 4-6

- a) With respect to Table 4-53, please confirm that for demand billed classes the amounts shown under "Summary of Units Lost" are billing kW and not kWh.
- b) Please provide a Summary of Units Lost that sets out the kWh by customer class and in total for each year.
- c) For demand-billed classes, please set out how the IESO (OPA) reported peak kW reduction was translated into billing kW and reconcile with the IESO (OPA) definition of peak.
- d) Please provide a schedule that sets out how the savings reported by the IESO (OPA) per Attachment 4-6 were assigned to customer classes.
- e) With respect to Table 4-53, please confirm that the volumetric rates shown for each year are a weighted average of the pre-May 1st and post-May 1st rates for

the year.

- f) What is the basis for the “2014 Saved” values? In particular, what is the basis for assuming 100% persistence of savings reported for 2013?
- g) Does Milton plan on carrying the un-refunded Residential amount forward and factoring it into future LRAM claims?

Response:

- a) Milton Hydro confirms that for demand billed classes the amounts shown under “Summary of Units Lost” are billing kW and not kWh.
- b) Milton Hydro has provided a Summary of Units Lost that sets out the kWh by customer class and in total for each year in the following table:

	2014 OPA Final Verified
	Net Savings
	kWh
Residential	
2011	556,986
2012	334,614
2013	366,668
2014	1,590,600
	<u>2,848,868</u>
GS<50	
2011	242,642
2012	322,057
2013	427,098
2014	540,148
	<u>1,531,945</u>
GS>50	
2011	2,187,089
2012	1,010,471
2013	1,745,780
2014	1,477,153
	<u>6,420,493</u>
GS>1000	
2011	646,581
2012	275,364
2013	182,033
2014	237,702
	<u>1,341,680</u>
GS>5000	
2011	101,708
2012	35,459
2013	356,647
2014	-
	<u>493,814</u>

c) Milton Hydro has provided the following tables for demand-billed classes which set out how the IESO (OPA) reported peak kW reduction and how Milton Hydro translated the reported peak kW into billing kW. The IESO (OPA) definition of peak is the new peak demand savings from activity within the specified reporting period which is one year. Milton Hydro translates the annual peak into a total of monthly peaks for the year by multiplying by twelve months as the annual peak saved is also saved every month for Milton Hydro.

	kW	kW	kW	kW
GS 50 to 999 kW	513	513	513	513
		165	165	165
			297	297
				292
Billed is X12	513	678	976	1,267
	kW	kW	kW	kW
GS 1000 to 4999 kW	180	180	180	180
		44	44	44
			31	31
				39
Billed is X12	180	224	255	294
	kW	kW	kW	kW
Large Users	16	16	16	16
		3	3	3
			50	50
				-
Billed is X12	16	19	70	70

- d) Please refer to OEB Staff IR 9.0 – Staff 74
- e) Milton Hydro confirms that the volumetric rates shown for each year are a weighted average of the pre-May 1st and post-May 1st rates for the year.
- f) The “2014 Saved” values are taken from the IESO (OPA) Final Report. The IESO

(OPA) Reports on savings over the year therefore if there are savings in 2013 they will persist into 2014.

- g) Milton Hydro will be updating its LRAM claim for this Application and based on the update there is \$9,593 of lost revenue due from the Residential class which is not enough to calculate a rate rider when based on over 300M kWh. Milton Hydro had not planned on carrying the Residential amount receivable forward and factoring it into future LRAM claims however it is a good idea to consider.

Conclusion

Milton Hydro submits that the evidence supporting its Lost Revenue Adjustment Mechanism Variance Account claim has been appropriately tested by OEB staff and intervenors.

Furthermore, Milton Hydro submits that the unsettled issue related to the calculation of the kW demand to be used in the calculation of the LRAMVA has been addressed by the OEB in its May 19, 2016 Report on the “Updated Policy for the Lost Revenue Adjustment Mechanism Calculation: Lost Revenues and Peak Demand Savings from Conservation and Demand Management Programs.”

In accordance with the CDM Guidelines, Milton Hydro is requesting approval for the recovery of lost revenue resulting from its CDM activities for 2011, 2012, 2013 and 2014 IESO-contracted Province-Wide CDM programs, including carrying charges, through to October 31, 2016. Milton Hydro has calculated carrying costs based on the most recent OEB prescribed interest rates issued June 13, 2016. Lost revenues are based on Milton Hydro’s OEB approved volumetric distribution rates weighted for each year. The total amount requested for recovery is \$143,028, including carrying charges of \$4,900. The amounts requested for recovery are summarized in Table 3 above.

As discussed above, Milton Hydro is requesting that this Application be disposed of by way of Delegated Authority without further intervention for the reasons set out above.

Respectfully submitted,

Cameron McKenzie, CPA, CGA
Director, Regulatory Affairs

- Attachment A IESO Memorandum on the Application of Demand Savings in Final Verified Conservation Results in LDC LRAM Claims.
- Attachment B OEB Letter on the Application of Demand Savings in Final Verified Conservation Results in LDC Lost Revenue Adjustment Mechanism (LRAM) Claims.
- Attachment C OEB Report on “Updated Policy for the Lost Revenue Adjustment Mechanism Calculation: Lost Revenues and Peak Demand Savings from Conservation and Demand Management Programs.
- Attachment D 2011-2014 Final Results Report_Milton Hydro Distribution Inc.

Attachment A

IESO Memorandum on the Application of Demand Savings in Final Verified Conservation
Results in LDC LRAM Claims.

Memorandum

To: Josh Wasylyk, Ontario Energy Board

Cc: Nik Schruder, IESO
Katherine Sparkes, IESO

From: Phil Bosco, IESO

Date: February 24, 2016

Re: **Application of Demand Savings in Final Verified Conservation Results in LDC LRAM Claims**

This memorandum is in response to inquiries by both the Ontario Energy Board (OEB) and Local Distribution Companies (LDC's) about the application of final verified demands savings from the 2011-2014 Conservation and Demand Management (CDM) Framework in an LDC's Lost Revenue Adjustment Mechanism (LRAM) claim. The intent of the memo is to clarify the definition of demand savings used by the IESO in its reports to LDCs regarding final verified results to enable the OEB to make consistent decisions on LDC LRAM claims.

Verified demand savings, as defined in the EM&V Protocol and Requirements¹, are based on the average demand reduction across the total number of hours in the summer peak period (June, July, August, from 1pm to 7pm).

For an energy efficiency project, the verified demand savings shown in an LDC's 2011-2014 CDM Results Report represent an annualized figure -- the average monthly demand savings in each of June, July and August -- credited to the year of the in-service date. While the IESO has not verified the existence of further demand savings from energy efficiency projects in other months of the year, it may nevertheless be appropriate for LDCs to apply reported demand reductions to other months in recognition of the persistence of energy efficiency measures beyond the peak season. The application to other months should be commensurate with the type of program and whether its effects are measurable year-round (such as lighting) or only at certain times (such as space cooling). Similarly, the verified demand savings for an energy efficiency project persist into future years based on the life of the measure installed.

A different approach is required when estimating the effects of demand response programs. The IESO's evaluation methodology focuses on evaluating the system benefits of CDM activities

¹ IESO EM&V Protocol and Requirements,
<http://www.powerauthority.on.ca/sites/default/files/conservation/Conservation-First-EMandV-Protocols-and-Requirements-2015-2020-Apr29-2015.pdf>

and the IESO evaluation methodology makes no attempt to verify the impact that a demand response event may have on a customer's demand for the purposes of billing for distribution service, even in months where the demand response program was activated. Consequently, the IESO's results do not support the estimation of lost revenues on demand-billed distribution customers.

The final verified demand savings reflect only these periods defined in the EM&V protocol and only reflect the value that has been attributed against the LDC's 2011-2014 CDM Target.

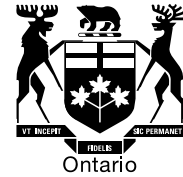
PB

Attachment B

OEB Letter on the Application of Demand Savings in Final Verified Conservation Results in LDC
Lost Revenue Adjustment Mechanism (LRAM) Claims

Ontario Energy Board
P.O. Box 2319
27th. Floor
2300 Yonge Street
Toronto ON M4P 1E4
Telephone: 416- 481-1967
Facsimile: 416- 440-7656
Toll free: 1-888-632-6273

Commission de l'énergie de l'Ontario
C.P. 2319
27e étage
2300, rue Yonge
Toronto ON M4P 1E4
Téléphone: 416- 481-1967
Télécopieur: 416- 440-7656
Numéro sans frais: 1-888-632-6273



BY E-MAIL

March 3, 2016

**TO: All Licensed Electricity Distributors
All Other Interested Parties
IESO**

RE: Application of Demand Savings in Final Verified Conservation Results in LDC Lost Revenue Adjustment Mechanism (LRAM) Claims

The OEB is holding a meeting on March 31, 2016 to gather input on the approach to recording the revenue impact of demand (kW) savings in the lost revenue adjustment mechanism variance account (LRAMVA). The OEB expects to provide further policy guidance on the LRAMVA following this meeting.

Background

For CDM programs delivered between 2011 and 2014, the OEB established Account 1568 (LRAM Variance Account) to capture the variance between the OEB-approved CDM forecast and the actual results at the customer rate class level. At a minimum, distributors must apply for the disposition of the balance in the LRAMVA as part of their cost of service applications, but may apply for disposition during the incentive rate-setting (IR) period of a distributor's rate-setting plan if the balance is deemed to be significant.

In support of their LRAMVA claims, distributors must provide, among other requirements, the energy and peak demand savings applicable to each rate class for each CDM program undertaken in a given year. These savings should be supported by the most recent final evaluation report for the distributor as provided by the IESO.

At issue in several recent applications has been the appropriateness of applying an adjustment factor to verified demand savings as a means of estimating the distribution revenue impact within demand-billed customer classes in a given year.

In [a memorandum to OEB staff](#) dated February 24, 2016, the IESO clarified its definition of verified demand savings and specifically reported that the IESO's methodology "makes no attempt to verify the impact that a demand response event may have on a customer's demand for the purposes of billing for distribution service, even in months where the demand response program was activated."

This clarification suggests that there should be further review of the appropriate approach to calculating any claim for lost revenues as a result of deployment of demand response initiatives, even where program results have been verified by the IESO. The IESO's memorandum also indicates that demand savings from energy efficiency programs are based on the average monthly demand savings for June, July and August. While there may be demand reductions in other months, or persistence into other years, the approach to determining this should also be considered.

These issues have surfaced in both cost of service and incentive rate-setting mechanism (IRM) applications. The generic nature of this issue warrants a discussion outside of the application process – not least for IRM applications, which are designed to implement mechanistic adjustments to a distributor's rates between cost of service proceedings.

The meeting to discuss these issues will be held on March 31, 2016 in the ADR Room, 9:30 am to 12:00 pm at the OEB's office at 2300 Yonge St. Any party who has been granted intervenor status and cost eligibility for a 2016 electricity rate application will be eligible for cost awards for attendance at the meeting, in accordance with the *OEB's Practice Directions on Cost Awards*.

If you have any questions regarding the meeting, please contact Takis Plagiannakos at takis.plagiannakos@ontarioenergyboard.ca or 416-440-7680.

Sincerely,

Original Signed By

Kirsten Walli
Board Secretary

Attachment C

OEB Report on “Updated Policy for the Lost Revenue Adjustment Mechanism Calculation: Lost Revenues and Peak Demand Savings from Conservation and Demand Management Programs

Ontario Energy Board



Report of the Ontario Energy Board

**Updated Policy for the Lost Revenue Adjustment Mechanism
Calculation: Lost Revenues and Peak Demand Savings from
Conservation and Demand Management Programs**

EB-2016-0182

May 19, 2016

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3.3	Impact on CDM Adjustment for Load Forecasting Purposes and LRAMVA Threshold ..	8
4	Conclusion and Next Steps	9

1 Executive Summary

This Report outlines the Ontario Energy Board's (OEB) policy with respect to the inclusion of peak demand (kW) savings into the Lost Revenue Adjustment Mechanism Variance Account - LRAMVA calculation for demand-billed customers.

In response to a memorandum from the Independent Electricity System Operator (IESO) that discussed peak demand (kW) savings and how these savings should be treated for the purpose of calculating lost revenues, the OEB held an open stakeholder session. As part of the stakeholder session OEB staff sought input and advice from utilities, intervenors and consultants on how to incorporate the CDM results provide by IESO into the OEB's current policy on the calculation of the LRAMVA for demand-billed customers. In this Report the OEB has determined that:

- Distributors should multiply the peak demand (kW) savings amounts from energy efficiency programs included in the IESO Final Results by the number of months the IESO has indicated those savings take place throughout the year (generally all 12 months).
- No peak demand (kW) savings from Demand Response (DR) programs should generally be included within the LRAMVA calculation. A distributor that wants to present empirical evidence to support DR savings in the LRAMVA can only do so as part of a cost of service or Custom IR application
- Distributors can use the information included within the IESO-approved 2015-2020 CDM plan when developing its CDM manual adjustment for load forecast purposes.

The changes adopted within this Report will be reflected in the Filing Requirements for Distribution Rate Applications (for both Cost of Service and Incentive rate-setting applications) and the CDM Guidelines.

2 Background

For Conservation and Demand Management (CDM) programs delivered between 2011 and 2014, the Ontario Energy Board (OEB) established Account 1568 (Lost Revenue Adjustment Variance Account - LRAMVA) to capture the variance between the CDM adjustment to a distributor's OEB-approved load forecast and the actual CDM results at the customer rate class level. The details of the LRAMVA Account 1568 are outlined in the OEB's [Guidelines for Electricity Distributor Conservation and Demand Management](#) issued April 26, 2012 (EB-2012-0003).

As part of the OEB's [CDM Requirement Guidelines for Electricity Distributors](#), issued December 19, 2014 (EB-2014-0278), the OEB reiterated that distributors should rely on the LRAMVA Account 1568 guidance included both within the 2012 CDM Guidelines and the Chapter 2 and Chapter 3 Filing Requirements for Electricity Distribution Rate Applications. This was in response to the [Conservation Directive](#) issued to the OEB on March 26, 2014 which states at Section 3(iii) that:

Lost revenues that result from Province-Wide Distributor CDM Programs or Local Distributor CDM Programs should not act as a disincentive to Distributors in meeting their CDM Requirement.

In support of their LRAMVA claims, distributors must provide, among other requirements, the energy (kWh) and peak demand (kW) savings applicable to each rate class for each CDM program undertaken in a given year. These savings should be supported by the most recent final evaluation report for the distributor as provided by the Independent Electricity System Operator (IESO). Included within the IESO's Final CDM Results report are both energy (kWh) and peak demand (kW) savings which have resulted from CDM programs implemented by the distributor.

An issue was identified during the 2016 electricity rate application review process related to peak demand (kW) savings for demand-billed rate classes. Specifically, the issue revolved around the calculation of lost revenues related to peak demand (kW) savings from both energy efficiency and demand response CDM programs.

In [a memorandum to OEB staff](#) dated February 24, 2016, the IESO indicated that demand savings from energy efficiency programs are based on the average monthly demand savings for June, July and August. The IESO indicated that there may be demand reductions in other months, or persistence into other years from energy efficiency programs.

Further, the IESO clarified its definition of verified demand savings and specifically noted that the IESO's methodology "makes no attempt to verify the impact that a demand response event may have on a customer's demand for the purposes of billing for distribution service, even in months where the demand response program was activated."

In response to this issue being identified, the OEB initiated a process to review the current LRAMVA policy and make any necessary adjustments. Through a letter dated March 3, 2016, the OEB invited stakeholders to an open meeting to gather input on the approach to recording the revenue impact of peak demand (kW) savings in the LRAMVA. On March 31, 2016, the OEB held a stakeholder meeting with representatives from electricity distributors and intervenors to discuss this topic.

3 Summary of Stakeholder Meeting

The OEB's March 31, 2016 stakeholder session was attended by representatives from utilities, consultants and intervenors. The list below includes those who participated.

OEB Staff	Hydro One Networks Inc.
IESO Staff	Hydro One Brampton Networks Inc.
BLG	Hydro Ottawa Ltd.
Centre Wellington Hydro Ltd.	IndEco Strategic Consulting Inc.
Consumers Council of Canada	London Property Management Association
Cornerstone Hydro Electric Concepts	Oakville Hydro Electricity Distribution Inc.
Econalysis Consulting Services	PowerStream Inc.
Enersource Hydro Mississauga Inc.	School Energy Coalition
ENTEGRUS	St. Thomas Energy Inc.
Guelph Hydro Electric Systems Inc.	Utilities Kingston
Horizon Utilities Corporation	Veridian Connections Inc.

3.1 Demand Savings from Energy Efficiency Programs

In an effort to provide additional information, the IESO provided the manner in which peak demand savings from energy efficiency programs are realized throughout the year (i.e., number of months the savings are applicable).

The IESO confirmed that demand savings from energy efficiency programs (all programs other than demand response programs which reduce overall demand on the system at peak periods) were evaluated in accordance with the IESO's Evaluation, Measurement & Verification (EM&V) Protocols.¹ A monthly average savings figure is included by the IESO in the Final CDM Results that are provided to all distributors. It is this value which is relied upon by distributors when calculating lost revenues.

The IESO indicated that the demand savings from energy efficiency programs shown in the Final CDM Results should generally be multiplied by twelve (12) months to represent the demand savings the distributor has experienced over the entire year (see Table 1). In the case of the Building Commissioning initiative, the demand savings provided in the Final CDM Results should only be multiplied by three (3) as these savings are related to space cooling and do not occur throughout the full year, but only during the summer months, typically.

¹ The IESO EM&V Protocols quantifies those demand savings at the peak period (weekdays, excluding holidays, from 1:00 p.m. to 7:00 p.m. in June, July and August).

Table 1 below lists all IESO programs that are available to demand-billed customers and how the peak demand savings are applicable throughout the year.

Table 1 – Demand Savings from Energy Efficiency Programs

Initiative	Application of Demand Savings - Months		
	Months	Number of Months	Notes
Business Program			
Retrofit	All	12	
Direct Install Lighting	All	12	
Building Commissioning*	Jun, Jul, Aug	3	
New Construction	All	12	
Energy Audit	All	12	
Small Commercial Demand Response	N/A	0	DR programs are not energy efficiency programs. They aim to reduce usage only at peak times.
Small Commercial Demand Response (IHD)	N/A	0	
Demand Response 3	N/A	0	
Industrial Program			
Process & System Upgrades	All	12	
Monitoring & Targeting	All	12	
Energy Manager	All	12	
Retrofit	All	12	
Demand Response 3	N/A	0	See DR note above
Aboriginal Program			
Direct Install Lighting	All	12	

* Peak demand savings from the Building Commissioning are cooling related and only occur during the summer.

There are also peak demand (kW) savings that result from the CDM programs delivered to residential customers. These peak demand (kW) savings are generally realized throughout the year; however, since residential customers are billed based on their energy usage (kWh), and not based on demand (kW), there are no lost revenues associated with the demand savings from residential energy efficiency programs.

Stakeholders generally agreed to the approach of multiplying the peak demand (kW) savings included within the IESO Final Results by the applicable monthly multiplier value included in Table 1 in order to determine the appropriate peak demand (kW) value for the LRAMVA calculation.

The OEB agrees with the suggested approach for calculating lost revenues related to peak demand savings from energy efficiency programs as outlined above. The

information provided by the IESO should be relied upon by distributors when calculating the applicable peak demand (kW) savings and resulting lost revenues from energy efficiency programs delivered to demand-billed customers. Should a distributor wish to propose an alternative approach, the onus would be fully on the distributor to support its proposal. Distributors should limit proposals made as part of an IRM application to mechanistic calculations. If a distributor proposes an alternative approach, it should be made as part of a Cost of Service or Custom IR application.

The OEB will make revisions to both the Filing Requirements for Distribution Rate Applications (for both Cost of Service and IRM applications) and the CDM Guidelines to address this issue.

3.2 Demand Savings from Demand Response (DR) Programs

In advance of the stakeholder meeting, the IESO also provided Table 2 below. Table 2 shows all activation dates for the Demand Response 3 program over the course of the 2011-2014 CDM period.

Table 2 – 2011-2014 Demand Response 3 Program Activation Dates

Year	Event Date	Region
2014	None	Province-Wide
2013	July 9, 2013	Activated in Toronto only - weather related (flooding of a substation)
	July 10, 2013	
	July 18, 2013	Province-Wide
2012	July 20, 2012	Province-Wide
	July 21, 2012	
	July 17, 2012	
	September 5, 2012	
	September 6, 2012	
2011	May 31, 2011	Province-Wide
	June 6, 2011	
	June 7, 2011	
	June 8, 2011	
	July 11, 2011	
	July 21, 2011	
	July 22, 2011	
	August 2, 2011	
	August 4, 2011	
	November 21, 2011	
	November 22, 2011	

As shown in Table 2 above, there were a total of 17 province-wide demand response events (19 in Toronto) over the course of the 2011-2014 period. The IESO confirmed that distributors were provided credit for aggregated demand savings from demand response programs based on the future projected, or expected demand response event demand savings (i.e., ex-ante savings) at the system level, as opposed to the actual demand savings that were experienced (i.e. ex-post savings) at the individual customer level from the demand response events shown in Table 2.

Lost revenues only result when an individual customer's monthly peak demand is reduced. Since the IESO's evaluations were done at the system level and did not consider the impacts of demand response events on an individual customer's peak demand, the IESO indicated that it could not confirm that a distributor incurred any lost revenues as the result of a demand response event.

It was the general consensus amongst stakeholders that, based on the information provided by the IESO, there are no lost revenues from demand response programs in most instances. The monthly peak demand of a demand-billed customer used for billing purposes may not correspond with the demand response event; even if it did, the lost revenues would only be related to a difference between the customer's peak demand absent the demand response event and the next highest peak demand for the customer in that month. Further, stakeholders generally agreed that, in the event a distributor sought recovery of lost revenues related to demand response programs, the distributor would be expected to provide the supporting information (e.g., customer billing analysis, evidence that demand response events corresponded to customer peak periods and actual lost revenues, third party verification, etc.) and that these requests would be decided on a case-by-case basis.

The OEB agrees with the suggested approach to remove any peak demand savings from demand response programs from the LRAMVA calculation as outlined above. Since the IESO's evaluations cannot confirm the nature of the demand savings relative to the billing period for demand-billed customers, it is not appropriate that distributors be credited with lost revenues from demand response programs, except for those situations where the distributor can explicitly demonstrate revenue impacts.

The 2012 CDM Guidelines (EB-2012-0003) state at Section 13.4 that, at a minimum, distributors must apply for disposition of the balance in the LRAMVA at the time of their Cost of Service applications. However, distributors may apply for the disposition of the balance in the LRAMVA on an annual basis, as part of their IRM rate application if the

balance is deemed significant by the applicant.² In the event that a distributor wishes to include a request for lost revenues from demand response programs as part of the LRAMVA, it must do so as part of a Cost of Service application as the IRM process is intended to be mechanistic in nature.

The OEB will make revisions to both the Filing Requirements for Distribution Rate Applications (for both Cost of Service and IRM applications) and the CDM Guidelines to address this issue.

3.3 Impact on CDM Adjustment for Load Forecasting Purposes and LRAMVA Threshold

A related issue to that of the LRAMVA calculation is the manual CDM adjustment to a distributor's load forecast that is used to set rates. This adjustment becomes the threshold value to use in the LRAMVA calculation. Included within the Chapter 2 and Chapter 3 Filing Requirements for Electricity Distributor Rate Applications is direction related to how distributors are expected to account for estimates of future CDM activity. Details relating to the CDM adjustment are outlined in Appendix 2-1 of the Filing Requirements. This adjustment is intended to allow distributors to include all anticipated CDM activity at the rate setting stage in order for distributors to recover the appropriate level of revenues from the outset.

Further, as part of the Filing Requirements, the OEB has also provided direction related to how distributors should develop the LRAMVA threshold value. The LRAMVA threshold is used as part of the lost revenue calculation and is needed for entries into Account 1568 – LRAMVA. The LRAMVA threshold value is the anticipated lost revenue amount (based on anticipated CDM savings) based on what is reflected in the underlying load forecast (i.e., used for billing determinants, as applicable) when the distributor has rebased rates through a cost of service (or Custom IR) application. This value is compared with actual lost revenues (based on actual CDM savings) to generate the final LRAMVA amount. This threshold remains until the distributor next rebases.

It was the general consensus amongst stakeholders that although the application of peak demand (kW) savings is appropriately modified for the LRAMVA calculation, since the CDM adjustment to a distributor's load forecast is developed based on estimated energy (kWh) savings from CDM programs, the manner to develop both the CDM adjustment to the load forecast and the LRAMVA threshold value remained relevant and appropriate. As such, no major changes were proposed. It was suggested however,

² As stated in the 2012 CDM Guidelines, the LRAMVA shall not be included in the pre-set disposition threshold calculation in determining materiality for disposition for Group 1 accounts as per the July 31, 2009 Report of the Board: *Electricity Distributors' Deferral and Variance Account Initiative* (EB-2008-0046).

that if possible, distributors incorporate more detail as part of the manual CDM adjustment and rely on the detailed information included in the distributor's IESO-approved 2015-2020 CDM Plan.

The OEB agrees that, in the event a distributor wishes to include more precise and detailed information when developing their manual CDM adjustment, the distributor should rely on the information included within the IESO-approved 2015-2020 CDM plan related to estimated future savings. At a minimum, distributors should continue to rely on Appendix 2-I of the Filing Requirements when calculating the manual CDM adjustment to the load forecast and LRAMVA threshold value. Appendix 2-I has been structured as the default, generic tool to be used by distributors in developing their manual CDM adjustment. If a distributor includes more detailed information from its 2015-2020 CDM Plan, the distributor will need to make the appropriate modifications to adapt Appendix 2-I for its circumstances. The OEB will make the appropriate revisions to the Filing Requirements for Distribution Rate Applications (for Cost of Service applications) to indicate that distributors can incorporate more detail in the proposed CDM adjustment to its load forecast and the related LRAMVA threshold.

4 Conclusion and Next Steps

Distributors should use the updated guidance related to the LRAMVA calculation that is outlined above immediately and in the preparation of any rate application that includes a request for disposition of Account 1568 – LRAMVA. This includes those distributors' whose request to dispose of Account 1568 – LRAMVA as part of a 2016 rate application was deferred.

Filing requirements and supporting documentation, including the CDM Guidelines, will be updated to reflect the updated LRAMVA calculation.

Attachment D

2011-2014 Final Results Report Milton Hydro Distribution Inc.



Message from the Vice President:

The IESO is pleased to provide the enclosed 2011-2014 Final Results Report. This report is designed to help populate LDC Annual Reports that will be submitted to the Ontario Energy Board (OEB) in September 2015.

2011-2014 Conservation Framework Highlights:

- LDCs have made significant achievements against dual energy and peak demand savings targets. Collectively, the LDCs have achieved 109% of the energy target and 70% of the peak demand target.
- Momentum has built as we transition to the Conservation First Framework. 2014 demonstrated an achievement of over 1 TWh of net incremental energy savings, positioning us well for average net incremental energy savings of 1.2 TWh required in the new framework to meet our 2020 CDM targets.
- Throughout the past framework, program results have become more predictable year over year as noted in the increasingly smaller variance between quarterly preliminary results and verified final results.
- Customer engagement continued to increase in both the Consumer and Business Programs. Between 2011 - 2014 consumers have purchased over 10 million energy efficient products through the saveONenergy COUPONS program. Customers in RETROFIT continue to declare a positive experience participating in the program with 86% likely to recommend.
- saveONenergy has seen a steady and significant increase in unaided brand awareness by 33% from 2011-2014
- Conservation is becoming even more cost-effective as programs become more efficient and effective. 2014 proved early investments in long lead time projects will pay off with the high savings now being realized in programs like PROCESS & SYSTEMS and RETROFIT. Within 4 cents per kWh, Conservation programs continue to be a valuable and cost effective resource for customers across the province.

The 2011-2014 Final Results within this report vary from the Draft 2011-2014 Final Results Report for the following reasons:

- Savings from Time of Use pricing are included in the Final Results Report. Overall the province saved 55 MWs from Time-of-Use pricing in 2014, or 0.73% of residential summer peak demand.
- Between August 4th and August 28th, the IESO and LDCs have worked collaboratively to reconcile projects from 2011-2014 Final Results Report to ensure every eligible project was captured and accurately reported.
- Verified savings from Innovation Fund pilots are also included for participating LDCs.

All results will be considered final for the 2011-2014 Conservation Framework. Any additional program activity not captured in the 2011-2014 Final Results Report will not be included as part of a future adjustment process.

Please continue to monitor saveONenergy E-blasts for future updates and should you have any other questions or comments please contact LDC.Support@ieso.ca.

We appreciate your collaboration and cooperation throughout the reporting and evaluation process and we look forward to the success ahead in the Conservation First Framework.

Sincerely,

Terry Young

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IESO-Contracted Province-Wide CDM Programs: 2011-2014 Final Results Report

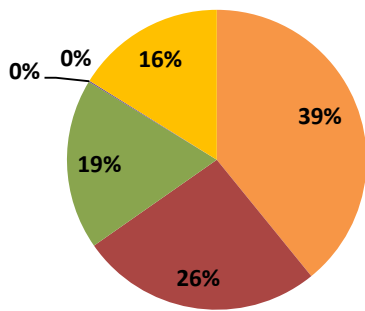
LDC: Milton Hydro Distribution Inc.

Final 2014 Achievement Against Targets	2014 Incremental	2011-2014 Achievement Against Target	
			% of Target Achieved
Net Annual Peak Demand Savings (MW)	2.3	3.9	47.9%
Net Energy Savings (GWh)	5.1	30.9	92.2%

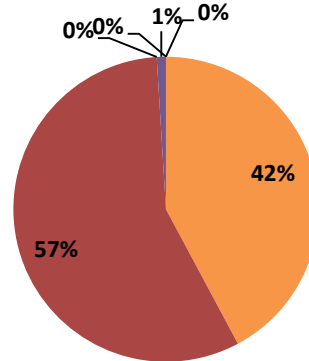
Unless otherwise noted, results are presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

Achievement by Sector

2014 Incremental Peak Demand Savings (MW)



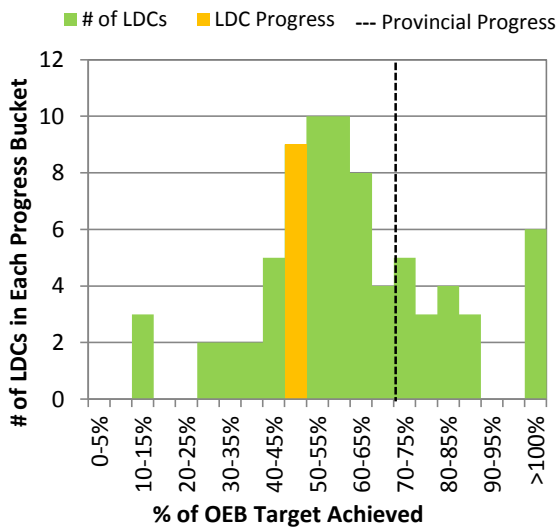
2014 Incremental Energy Savings (GWh)



■ Consumer
 ■ Business
 ■ Industrial
 ■ HAP
 ■ ACP
 ■ Other

Comparison: LDC Achievement vs. LDC Community Achievement (Progress to Target)

% of OEB Peak Demand Savings Target Achieved



% of OEB Energy Savings Target Achieved

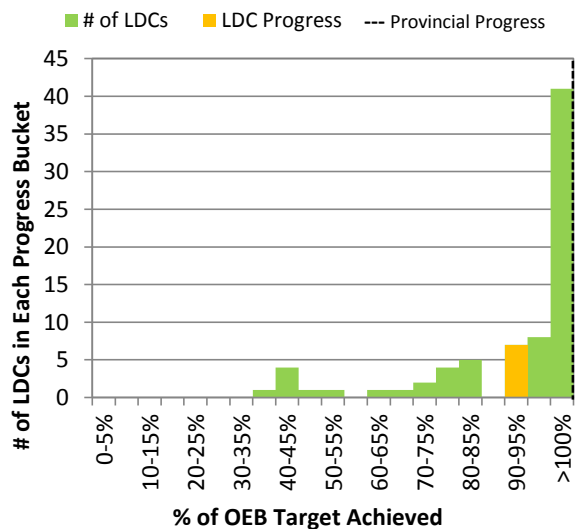


Table 1: Milton Hydro Distribution Inc. Initiative and Program Level Net Savings by Year

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)			
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)		
														2014	2014		
Consumer Program																	
Appliance Retirement	Appliances	172	127	84	51	10	7	5	3	71,041	50,944	35,954	22,677	25	531,174		
Appliance Exchange	Appliances	20	14	16	20	2	2	3	4	3,453	3,731	5,911	7,389	11	43,470		
HVAC Incentives	Equipment	292	333	425	541	103	68	84	94	186,935	114,519	143,381	168,598	349	1,546,658		
Conservation Instant Coupon Booklet	Items	4,357	176	1,982	5,882	9	1	3	12	156,127	7,963	43,898	160,368	25	896,564		
Bi-Annual Retailer Event	Items	5,423	6,042	5,381	27,479	10	8	7	46	167,376	152,535	97,848	699,991	71	2,022,794		
Retailer Co-op	Items	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Residential Demand Response	Devices	0	0	0	1,330	0	0	0	468	0	0	0	0	468	0		
Residential Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Residential New Construction	Homes	0	0	0	479	0	0	0	177	0	0	0	495,916	177	495,916		
Consumer Program Total						134	88	102	803	584,932	329,692	326,992	1,554,940	1,126	5,536,577		
Business Program																	
Retrofit	Projects	3	28	42	60	113	239	228	341	613,680	1,427,328	1,498,670	1,844,739	922	11,578,781		
Direct Install Lighting	Projects	8	1	3	11	10	0	3	14	25,882	1,250	10,212	58,779	27	186,485		
Building Commissioning	Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
New Construction	Buildings	0	0	2	2	0	0	0	94	0	0	0	126,995	94	126,995		
Energy Audit	Audits	0	0	1	1	0	0	0	13	0	0	0	65,274	13	65,274		
Small Commercial Demand Response	Devices	0	0	0	4	0	0	0	2	0	0	0	0	2	0		
Small Commercial Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Demand Response 3	Facilities	1	1	1	1	98	98	100	72	3,820	1,426	1,329	0	72	6,575		
Business Program Total						221	338	331	537	643,382	1,430,005	1,510,211	2,095,786	1,131	11,964,110		
Industrial Program																	
Process & System Upgrades	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Energy Manager	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Retrofit	Projects	9	0	0	0	19	0	0	0	131,306	0	0	0	19	525,226		
Demand Response 3	Facilities	1	2	2	2	162	142	282	378	9,498	3,429	6,411	0	378	19,339		
Industrial Program Total						180	142	282	378	140,805	3,429	6,411	0	397	544,565		
Home Assistance Program																	
Home Assistance Program	Homes	0	1	51	88	0	0	2	3	0	0	25,977	35,660	4	86,818		
Home Assistance Program Total						0	0	2	3	0	0	25,977	35,660	4	86,818		
Aboriginal Program																	
Home Assistance Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aboriginal Program Total						0	0	0	0	0	0	0	0	0	0		
Pre-2011 Programs completed in 2011																	
Electricity Retrofit Incentive Program	Projects	14	0	0	0	233	0	0	0	1,113,991	0	0	0	233	4,455,964		
High Performance New Construction	Projects	3	0	0	1	317	1	0	31	1,630,079	624	0	159,216	349	6,681,402		
Toronto Comprehensive	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Multifamily Energy Efficiency Rebates	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
LDC Custom Programs	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pre-2011 Programs completed in 2011 Total						550	1	0	31	2,744,070	624	0	159,216	582	11,137,366		
Other																	
Program Enabled Savings	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Time-of-Use Savings	Homes	0	0	0	n/a	0	0	0	332	0	0	0	0	332	0		
LDC Pilots	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Total						0	0	0	332	0	0	0	0	332	0		
Adjustments to 2011 Verified Results							21	0	0		-364,864	0	0	21	-1,459,457		
Adjustments to 2012 Verified Results								7	12			147,889	71,090	19	657,122		
Adjustments to 2013 Verified Results									242				1,214,320	242	2,430,695		
Energy Efficiency Total						826	328	336	1,164	4,099,870	1,758,894	1,861,852	3,845,602	2,652	29,243,521		
Demand Response Total (Scenario 1)						260	240	381	920	13,318	4,856	7,740	0	920	25,914		
Adjustments to Previous Years' Verified Results Total						0	21	7	254	0	-364,864	147,889	1,285,409	282	1,628,361		
OPA-Contracted LDC Portfolio Total (inc. Adjustments)						1,086	589	724	2,338	4,113,188	1,398,885	2,017,481	5,131,011	3,854	30,897,796		
Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).												Full OEB Target:		8,050	33,500,000		
*Includes adjustments after Final Reports were issued												Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year		% of Full OEB Target Achieved to Date (Scenario 1):		47.9%	92.2%

Table 2: Adjustments to Milton Hydro Distribution Inc. Net Verified Results due to Variances

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
														2014	2014
Consumer Program															
Appliance Retirement	Appliances	0	0	0		0	0	0		0	0	0		0	0
Appliance Exchange	Appliances	0	0	0		0	0	0		0	0	0		0	0
HVAC Incentives	Equipment	-89	4	22		-23	1	4		-41,951	1,822	6,833		-18	-148,673
Conservation Instant Coupon Booklet	Items	47	0	6		0	0	0		1,570	0	134		0	6,548
Bi-Annual Retailer Event	Items	466	0	0		1	0	0		12,435	0	0		1	49,742
Retailer Co-op	Items	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential New Construction	Homes	0	0	0		0	0	0		0	0	0		0	0
Consumer Program Total						-23	1	4		-27,946	1,822	6,967		-17	-92,383
Business Program															
Retrofit	Projects	0	4	2		0	18	38		0	214,149	178,751		56	998,011
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
Building Commissioning	Buildings	0	0	0		0	0	0		0	0	0		0	0
New Construction	Buildings	0	0	2		0	0	191		0	0	975,442		191	1,950,885
Energy Audit	Audits	0	0	1		0	0	9		0	0	48,483		9	96,966
Small Commercial Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Business Program Total						0	18	238		0	214,149	1,202,677		255	3,045,861
Industrial Program															
Process & System Upgrades	Projects	0	0	0		0	0	0		0	0	0		0	0
Monitoring & Targeting	Projects	0	0	0		0	0	0		0	0	0		0	0
Energy Manager	Projects	0	0	0		0	0	0		0	0	0		0	0
Retrofit	Projects	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Industrial Program Total						0	0	0		0	0	0		0	0
Home Assistance Program															
Home Assistance Program	Homes	0	1	8		0	0	1		0	3,100	6,732		1	22,556
Home Assistance Program Total						0	0	1		0	3,100	6,732		1	22,556
Aboriginal Program															
Home Assistance Program	Homes	0	0	0		0	0	0		0	0	0		0	0
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
Aboriginal Program Total						0	0	0		0	0	0		0	0
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	0	0	0		0	0	0		0	0	0		0	0
High Performance New Construction	Projects	1	0	0		43	0	0		-336,918	0	0		43	-1,347,674
Toronto Comprehensive	Projects	0	0	0		0	0	0		0	0	0		0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0		0	0	0		0	0
LDC Custom Programs	Projects	0	0	0		0	0	0		0	0	0		0	0
Pre-2011 Programs completed in 2011 Total						43	0	0		-336,918	0	0		43	-1,347,674
Other															
Program Enabled Savings	Projects	0	0	0		0	0	0		0	0	0		0	0
Time-of-Use Savings	Homes	0	0	0		0	0	0		0	0	0		0	0
LDC Pilots	Projects	0	0	0		0	0	0		0	0	0		0	0
Other Total						0	0	0		0	0	0		0	0
Adjustments to 2011 Verified Results						21				-364,864				21	-1,459,457
Adjustments to 2012 Verified Results							19				219,072			19	657,122
Adjustments to 2013 Verified Results								243				1,216,376		242	2,430,695
Total Adjustments to Previous Years' Verified Results						21	19	243		-364,864	219,072	1,216,376		282	1,628,361

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above is presented in the implementation year. Adjustments in Table 1 reflect persisted savings in the year in which that adjustment is verified.

Table 3: Milton Hydro Distribution Inc. Realization Rate & NTG

Initiative	Peak Demand Savings								Energy Savings							
	Realization Rate				Net-to-Gross Ratio				Realization Rate				Net-to-Gross Ratio			
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program																
Appliance Retirement	1.00	1.00	n/a	n/a	0.51	0.46	0.42	0.42	1.00	1.00	n/a	n/a	0.52	0.47	0.44	0.44
Appliance Exchange	1.00	1.00	1.00	1.00	0.52	0.52	0.53	0.53	1.00	1.00	1.00	1.00	0.52	0.52	0.53	0.53
HVAC Incentives	1.00	1.00	n/a	1.00	0.60	0.50	0.48	0.51	1.00	1.00	n/a	1.00	0.60	0.49	0.48	0.51
Conservation Instant Coupon Booklet	1.00	1.00	1.00	1.00	1.14	1.00	1.11	1.69	1.00	1.00	1.00	1.00	1.11	1.05	1.13	1.73
Bi-Annual Retailer Event	1.00	1.00	1.00	1.00	1.13	0.91	1.04	1.74	1.00	1.00	1.00	1.00	1.10	0.92	1.04	1.75
Retailer Co-op	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential New Construction	n/a	n/a	n/a	0.96	n/a	n/a	n/a	0.63	n/a	n/a	n/a	0.50	n/a	n/a	n/a	0.63
Business Program																
Retrofit	0.93	0.96	0.91	0.84	0.75	0.78	0.74	0.72	1.34	1.14	1.03	1.06	0.76	0.79	0.74	0.73
Direct Install Lighting	1.08	0.68	0.81	0.78	0.93	0.94	0.94	0.94	0.90	0.85	0.84	0.83	0.93	0.94	0.94	0.94
Building Commissioning	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
New Construction	n/a	n/a	n/a	0.84	n/a	n/a	n/a	0.54	n/a	n/a	n/a	0.85	n/a	n/a	n/a	0.54
Energy Audit	n/a	n/a	n/a	0.96	n/a	n/a	n/a	0.68	n/a	n/a	n/a	1.00	n/a	n/a	n/a	0.67
Small Commercial Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Small Commercial Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Demand Response 3	0.76	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Industrial Program																
Process & System Upgrades	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Monitoring & Targeting	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Energy Manager	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Retrofit																
Demand Response 3	0.84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Home Assistance Program																
Home Assistance Program	n/a	n/a	1.15	0.82	n/a	n/a	1.00	1.00	n/a	n/a	0.76	0.73	n/a	n/a	1.00	1.00
Aboriginal Program																
Home Assistance Program	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Direct Install Lighting	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pre-2011 Programs completed in 2011																
Electricity Retrofit Incentive Program	0.77	n/a	n/a	n/a	0.52	n/a	n/a	n/a	0.77	n/a	n/a	n/a	0.52	n/a	n/a	n/a
High Performance New Construction	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.50	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.50
Toronto Comprehensive	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Multifamily Energy Efficiency Rebates	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Custom Programs	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Other																
Program Enabled Savings	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Time-of-Use Savings	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Pilots	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Summary Achievement Against CDM Targets

Results are recognized using current IESO reporting policies. Energy efficiency resources persist for the duration of the effective useful life. Any upcoming code changes are taken into account. Demand response resources persist for 1 year (Scenario 1). Please see methodology tab for more detailed information.

Table 4: Net Peak Demand Savings at the End User Level (MW) (Scenario 1)

Implementation Period	Annual			
	2011	2012	2013	2014
2011 - Verified	1.1	0.8	0.8	0.8
2012 - Verified†	0.0	0.6	0.3	0.3
2013 - Verified†	0.0	0.0	0.7	0.3
2014 - Verified†	0.0	0.0	0.3	2.3
Verified Net Annual Peak Demand Savings Persisting in 2014:				3.9
Milton Hydro Distribution Inc. 2014 Annual CDM Capacity Target:				8.1
Verified Portion of Peak Demand Savings Target Achieved in 2014 (%):				47.9%

Table 5: Net Energy Savings at the End User Level (GWh)

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
2011 - Verified	4.1	4.1	4.1	4.1	16.4
2012 - Verified†	-0.4	1.4	1.4	1.4	3.8
2013 - Verified†	0.0	0.1	2.0	2.0	4.2
2014 - Verified†	0.0	0.1	1.29	5.1	6.5
Verified Net Cumulative Energy Savings 2011-2014:					30.9
Milton Hydro Distribution Inc. 2011-2014 Annual CDM Energy Target:					33.5
Verified Portion of Cumulative Energy Target Achieved in 2014 (%):					92.2%

†Includes adjustments to previous years' verified results

Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

Table 6: Province-Wide Initiatives and Program Level Net Savings by Year (Scenario 1)

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2011-2014 Net Cumulative Energy Savings (kWh) 2014
		2014		2014		2014		2014		2014		2014		2014	
Consumer Program															
Appliance Retirement	Appliances	56,110	34,146	20,952	22,563	3,299	2,011	1,433	1,617	23,005,812	13,424,518	8,713,107	9,497,343	8,221	159,100,415
Appliance Exchange	Appliances	3,688	3,836	5,337	5,685	371	556	1,106	1,178	450,187	974,621	1,971,701	2,100,266	2,273	10,556,192
HVAC Incentives	Equipment	92,748	87,540	96,286	113,002	32,037	19,060	19,552	23,106	59,437,670	32,841,283	33,923,592	42,888,217	93,755	447,009,930
Conservation Instant Coupon Booklet	Items	567,678	30,891	347,946	1,208,108	1,344	230	517	2,440	21,211,537	1,398,202	7,707,573	32,802,537	4,531	137,258,436
Bi-Annual Retailer Event	Items	952,149	1,060,901	944,772	4,824,751	1,681	1,480	1,184	8,043	29,387,468	26,781,674	17,179,841	122,902,769	12,389	355,157,348
Retailer Co-op	Items	152	0	0	0	0	0	0	0	2,652	0	0	0	0	10,607
Residential Demand Response	Devices	19,550	98,388	171,733	241,381	10,947	49,038	93,076	117,513	24,870	359,408	390,303	8,379	117,513	782,960
Residential Demand Response (IHD)	Devices	0	49,689	133,657	188,577	0	0	0	0	0	0	0	0	0	0
Residential New Construction	Homes	27	21	279	2,367	0	2	18	369	743	17,152	163,690	2,330,865	390	2,712,676
Consumer Program Total						49,681	72,377	116,886	154,267	133,520,941	75,796,859	70,049,807	212,530,376	239,772	1,112,588,565
Business Program															
Retrofit	Projects	2,828	6,481	9,746	10,925	24,467	61,147	59,678	70,662	136,002,258	314,922,468	345,346,008	462,903,521	213,493	2,631,401,223
Direct Install Lighting	Projects	20,741	18,691	17,833	23,784	23,724	15,284	18,708	23,419	61,076,701	57,345,798	64,315,558	84,503,302	73,304	604,196,658
Building Commissioning	Buildings	0	0	0	5	0	0	0	988	0	0	0	1,513,377	988	1,513,377
New Construction	Buildings	25	98	158	226	123	764	1,584	6,432	411,717	1,814,721	4,959,266	20,381,204	8,904	37,390,767
Energy Audit	Audits	222	357	589	473	0	1,450	2,811	6,323	0	7,049,351	15,455,795	30,874,399	10,583	82,934,042
Small Commercial Demand Response	Devices	132	294	1,211	3,652	84	187	773	2,116	157	1,068	373	319	2,116	1,916
Small Commercial Demand Response (IHD)	Devices	0	0	378	820	0	0	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	145	151	175	180	16,218	19,389	23,706	23,380	633,421	281,823	346,659	0	23,380	1,261,903
Business Program Total						64,617	98,221	107,261	133,319	198,124,253	381,415,230	430,423,659	600,176,121	332,769	3,358,699,887
Industrial Program															
Process & System Upgrades	Projects	0	0	5	10	0	0	294	9,692	0	0	2,603,764	72,053,255	9,986	77,260,782
Monitoring & Targeting	Projects	0	1	3	5	0	0	0	102	0	0	0	502,517	102	502,517
Energy Manager	Projects	1	132	306	379	0	1,086	3,558	5,191	0	7,372,108	21,994,263	40,436,427	8,384	95,324,998
Retrofit	Projects	433	0	0	0	4,615	0	0	0	28,866,840	0	0	0	4,613	115,462,282
Demand Response 3	Facilities	124	185	281	336	52,484	74,056	162,543	166,082	3,080,737	1,784,712	4,309,160	0	166,082	9,174,609
Industrial Program Total						57,098	75,141	166,395	181,066	31,947,577	9,156,820	28,907,187	112,992,199	189,168	297,725,188
Home Assistance Program															
Home Assistance Program	Homes	46	5,920	29,654	25,424	2	566	2,361	2,466	39,283	5,442,232	20,987,275	19,582,658	5,370	77,532,571
Home Assistance Program Total						2	566	2,361	2,466	39,283	5,442,232	20,987,275	19,582,658	5,370	77,532,571
Aboriginal Program															
Home Assistance Program	Homes	0	0	717	1,125	0	0	267	549	0	0	1,609,393	3,101,207	816	6,319,993
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aboriginal Program Total						0	0	267	549	0	0	1,609,393	3,101,207	816	6,319,993
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	2,028	0	0	0	21,662	0	0	0	121,138,219	0	0	0	21,662	484,552,876
High Performance New Construction	Projects	182	73	19	3	5,098	3,251	772	134	26,185,591	11,901,944	3,522,240	688,738	9,255	148,181,415
Toronto Comprehensive	Projects	577	15	4	5	15,805	0	0	281	86,964,886	0	0	2,479,840	16,086	350,339,385
Multifamily Energy Efficiency Rebates	Projects	110	0	0	0	1,981	0	0	0	7,595,683	0	0	0	1,981	30,382,733
LDC Custom Programs	Projects	8	0	0	0	399	0	0	0	1,367,170	0	0	0	399	5,468,679
Pre-2011 Programs completed in 2011 Total						44,945	3,251	772	415	243,251,550	11,901,944	3,522,240	3,168,578	49,382	1,018,925,088
Other															
Program Enabled Savings	Projects	33	71	46	43	0	2,304	3,692	5,500	0	1,188,362	4,075,382	19,035,337	11,496	30,751,187
Time-of-Use Savings	Homes	0	0	0	n/a	0	0	0	54,795	0	0	0	0	54,795	0
LDC Pilots	Projects	0	0	0	1,174	0	0	0	1,170	0	0	0	5,061,522	1,170	5,061,522
Other Total						0	2,304	3,692	61,466	0	1,188,362	4,075,382	24,096,859	67,462	35,812,709
Adjustments to 2011 Verified Results							1,406	641	1,418		18,689,081	1,736,381	7,319,857	3,215	110,143,550
Adjustments to 2012 Verified Results								6,260	9,221			41,947,840	37,080,215	15,401	238,780,637
Adjustments to 2013 Verified Results									24,391				150,785,808	24,391	296,465,211
Energy Efficiency Total						136,610	109,191	117,536	224,457	603,144,419	482,474,435	554,528,447	975,639,300	575,647	5,896,382,612
Demand Response Total (Scenario 1)						79,733	142,670	280,099	309,091	3,739,185	2,427,011	5,046,495	8,698	309,091	11,221,389
Adjustments to Previous Years' Verified Results Total						0	1,406	6,901	35,030	0	18,689,081	43,684,221	195,185,880	43,006	645,389,397
OPA-Contracted LDC Portfolio Total (inc. Adjustments)						216,343	253,267	404,536	568,578	606,883,604	503,590,526	603,259,163	1,170,833,878	927,745	6,552,993,397
Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).												*Includes adjustments after Final Reports were issued			
Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year												Full OEB Target:			
												1,330,000			
												6,000,000,000			
												70%			
												109%			
												Full OEB Target Achieved to Date (Scenario 1):			

Table 7: Adjustments to Province-Wide Net Verified Results due to Variances

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
Consumer Program															
Appliance Retirement	Appliances	0	0	0		0	0	0		0	0	0		0	0
Appliance Exchange	Appliances	0	0	0		0	0	0		0	0	0		0	0
HVAC Incentives	Equipment	-18,839	2,319	4,705		-5,270	479	1,037		-9,707,002	955,512	1,838,408		-3,754	-32,284,656
Conservation Instant Coupon Booklet	Items	8,216	0	1,050		16	0	2		275,655	0	23,571		18	1,149,763
Bi-Annual Retailer Event	Items	81,817	0	0		108	0	0		2,183,391	0	0		108	8,733,563
Retailer Co-op	Items	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential New Construction	Homes	20	2	193		1	1	72		14,667	985	441,938		74	945,497
Consumer Program Total						-5,145	480	1,111		-7,233,290	956,497	2,303,917		-3,555	-21,664,975
Business Program															
Retrofit	Projects	312	876	961		3,208	7,233	11,961		16,266,129	42,498,052	78,146,280		22,056	347,545,386
Direct Install Lighting	Projects	444	197	51		501	204	46		1,250,388	736,541	164,667		620	7,158,143
Building Commissioning	Buildings	0	0	0		0	0	0		0	0	0		0	0
New Construction	Buildings	15	29	72		850	1,304	2,241		3,604,553	4,825,774	8,636,179		4,401	46,187,216
Energy Audit	Audits	119	77	270		604	439	2,383		2,945,189	2,145,367	13,100,635		3,426	44,418,129
Small Commercial Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Business Program Total						5,162	9,181	16,631		24,066,259	50,205,734	100,047,761		30,503	385,148,444
Industrial Program															
Process & System Upgrades	Projects	0	0	2		0	0	324		0	0	968,659		324	1,937,318
Monitoring & Targeting	Projects	0	1	3		0	0	54		0	528,000	639,348		54	2,862,696
Energy Manager	Projects	1	93	101		27	1,067	2,395		241,515	8,266,841	25,814,853		4,345	81,853,489
Retrofit	Projects	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Industrial Program Total						27	1,067	2,774		241,515	8,794,841	27,422,860		4,723	61,215,516
Home Assistance Program															
Home Assistance Program	Homes	0	887	2,898		0	222	791		0	1,316,749	4,321,794		1,009	12,515,300
Home Assistance Program Total						0	222	791		0	1,316,749	4,321,794		1,009	8,581,177
Aboriginal Program															
Home Assistance Program	Homes	0	0	133		0	0	134		0	0	563,715		134	1,127,430
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
Aboriginal Program Total						0	0	134		0	0	563,715		134	1,127,430
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	12	0	0		138	0	0		545,536	0	0		138	2,182,145
High Performance New Construction	Projects	37	4	15		1,507	363	-184		2,398,941	2,832,533	-993,596		1,686	16,106,171
Toronto Comprehensive	Projects	0	15	4		0	672	185		0	4,523,517	1,324,388		857	16,219,327
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0		0	0	0		0	0
LDC Custom Programs	Projects	0	0	0		0	0	0		0	0	0		0	0
Pre-2011 Programs completed in 2011 Total						1,645	1,035	2		2,944,477	7,356,050	330,792		2,682	11,104,528
Other															
Program Enabled Savings	Projects	33	55	33		1,776	3,712	2,020		7,727,573	11,481,687	10,688,564		7,509	86,732,481
Time-of-Use Savings	Homes	0	0	0		0	0	0		0	0	0		0	0
LDC Pilots	Projects	0	0	0		0	0	0		0	0	0		0	0
Other Total						1,776	3,712	2,020		7,727,573	11,481,687	10,688,564		7,509	86,732,481
Adjustments to 2011 Verified Results						3,465				27,746,535				3,215	110,143,550
Adjustments to 2012 Verified Results							15,697				80,111,558			15,401	238,780,637
Adjustments to 2013 Verified Results								23,463				145,679,403		24,391	296,465,211
Adjustments to Previous Years' Verified Results Total						3,465	15,697	23,463		27,746,535	80,111,558	145,679,403		43,006	645,389,397

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

Adjustments to previous years' results shown in this table will not align to adjustments shown in Table 1 as the information presented above is presented in the implementation year. Adjustments in Table 1 reflect persisted savings in the year in which that adjustment is verified.

Table 8: Province-Wide Realization Rate & NTG

Initiative	Peak Demand Savings								Energy Savings							
	Realization Rate				Net-to-Gross Ratio				Realization Rate				Net-to-Gross Ratio			
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program																
Appliance Retirement	1.00	1.00	1.00	1.00	0.51	0.46	0.42	0.45	1.00	1.00	1.00	1.00	0.46	0.47	0.44	0.47
Appliance Exchange	1.00	1.00	1.00	1.00	0.51	0.52	0.53	0.53	1.00	1.00	1.00	1.00	0.52	0.52	0.53	0.53
HVAC Incentives	1.00	1.00	1.00	1.00	0.60	0.50	0.48	0.48	1.00	1.00	1.00	1.00	0.50	0.49	0.48	0.48
Conservation Instant Coupon Booklet	1.00	1.00	1.00	1.00	1.14	1.00	1.11	1.69	1.00	1.00	1.00	1.00	1.00	1.05	1.13	1.73
Bi-Annual Retailer Event	1.00	1.00	1.00	1.00	1.12	0.91	1.04	1.74	1.00	1.00	1.00	1.00	0.91	0.92	1.04	1.75
Retailer Co-op	1.00	n/a	n/a	n/a	0.68	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Residential New Construction	1.00	3.65	0.78	1.03	0.41	0.49	0.63	0.63	3.65	7.17	3.09	0.62	0.49	0.49	0.63	0.63
Business Program																
Retrofit	1.06	0.93	0.92	0.84	0.72	0.75	0.73	0.71	0.93	1.05	1.01	0.98	0.75	0.76	0.73	0.72
Direct Install Lighting	1.08	0.69	0.82	0.78	1.08	0.94	0.94	0.94	0.69	0.85	0.84	0.83	0.94	0.94	0.94	0.94
Building Commissioning	n/a	n/a	n/a	1.97	n/a	n/a	n/a	1.00	n/a	n/a	n/a	1.16	n/a	n/a	n/a	1.00
New Construction	0.50	0.98	0.68	0.71	0.50	0.49	0.54	0.54	0.98	0.99	0.76	0.79	0.49	0.49	0.54	0.54
Energy Audit	n/a	n/a	1.02	0.96	n/a	n/a	0.66	0.68	n/a	n/a	0.97	1.00	n/a	n/a	0.66	0.67
Small Commercial Demand Response	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Small Commercial Demand Response (IHD)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Demand Response 3	0.76	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Industrial Program																
Process & System Upgrades	n/a	n/a	0.85	0.96	n/a	n/a	0.94	0.79	n/a	n/a	0.87	0.96	n/a	n/a	0.93	0.80
Monitoring & Targeting	n/a	n/a	n/a	0.59	n/a	n/a	n/a	1.00	n/a	n/a	n/a	0.36	n/a	n/a	n/a	1.00
Energy Manager	n/a	1.16	0.90	0.91	n/a	0.90	0.90	0.90	1.16	1.16	0.90	0.96	0.90	0.90	0.90	0.85
Retrofit	1.11	n/a	n/a	n/a	0.72	n/a	n/a	n/a	0.91	n/a	n/a	n/a	0.75	n/a	n/a	n/a
Demand Response 3	0.84	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Home Assistance Program																
Home Assistance Program	1.00	0.32	0.26	0.49	0.70	1.00	1.00	1.00	0.32	0.99	0.88	0.78	1.00	1.00	1.00	1.00
Aboriginal Program																
Home Assistance Program	n/a	n/a	0.05	0.15	n/a	n/a	1.00	1.00	n/a	n/a	0.95	0.97	n/a	n/a	1.00	1.00
Direct Install Lighting	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Pre-2011 Programs completed in 2011																
Electricity Retrofit Incentive Program	0.80	n/a	n/a	n/a	0.54	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
High Performance New Construction	1.00	1.00	1.00	n/a	0.49	0.50	0.50	0.50	1.00	1.00	1.00	n/a	0.50	0.50	0.50	0.50
Toronto Comprehensive	1.13	n/a	n/a	n/a	0.50	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Multifamily Energy Efficiency Rebates	0.93	n/a	n/a	n/a	0.78	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Custom Programs	1.00	n/a	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Other																
Program Enabled Savings	n/a	1.06	1.00	0.86	n/a	1.00	1.00	1.00	n/a	2.26	1.00	0.98	n/a	1.00	1.00	1.00
Time-of-Use Savings	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LDC Pilots	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Summary Provincial Progress Towards CDM Targets

Table 9: Province-Wide Net Peak Demand Savings at the End User Level (MW)

Implementation Period	Annual			
	2011	2012	2013	2014
2011	216.3	136.6	135.8	129.0
2012†	1.4	253.3	109.8	108.2
2013†	0.6	7.0	404.5	122.0
2014†	1.4	10.8	34.2	568.6
Verified Net Annual Peak Demand Savings in 2014:				927.7
2014 Annual CDM Capacity Target:				1,330
Verified Portion of Peak Demand Savings Target Achieved in 2014 (%):				69.8%

Table 10: Province-Wide Net Energy Savings at the End-User Level (GWh)

Implementation Period	Annual				Cumulative
	2011	2012	2013	2014	2011-2014
2011	606.9	603.0	601.0	582.3	2,393.1
2012†	18.7	503.6	498.4	492.6	1,513.3
2013†	1.7	44.4	603.3	583.4	1,232.8
2014†	7.3	44.8	191.0	1,170.8	1,413.9
Verified Net Cumulative Energy Savings 2011-2014:					6,553.0
2011-2014 Cumulative CDM Energy Target:					6,000
Verified Portion of Cumulative Energy Target Achieved in 2014 (%):					109.2%

†Includes adjustments to previous years' verified results

Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

METHODOLOGY

All results are at the end-user level (not including transmission and distribution losses)

EQUATIONS	
Prescriptive Measures and Projects	<p>Gross Savings = Activity * Per Unit Assumption Net Savings = Gross Savings * Net-to-Gross Ratio All savings are annualized (i.e. the savings are the same regardless of time of year a project was completed or measure installed)</p>
Engineered and Custom Projects	<p>Gross Savings = Reported Savings * Realization Rate Net Savings = Gross Savings * Net-to-Gross Ratio All savings are annualized (i.e. the savings are the same regardless of time of year a project was completed or measure installed)</p>
Demand Response	<p>Peak Demand: Gross Savings = Net Savings = contracted MW at contributor level * Provincial contracted to ex ante ratio Energy: Gross Savings = Net Savings = provincial ex post energy savings * LDC proportion of total provincial contracted MW All savings are annualized (i.e. the savings are the same regardless of the time of year a participant began offering DR)</p>
Adjustments to Previous Years' Verified Results	<p>All variances from the Final Annual Results Reports from prior years will be adjusted within this report. Any variances with regards to projects counts, data lag, and calculations etc., will be made within this report. Considers the cumulative effect of energy savings.</p>

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Consumer Program			
Appliance Retirement	Includes both retail and home pickup stream. Retail stream allocated based on average of 2008 & 2009 residential throughput; Home pickup stream directly attributed by postal code or customer selection.	Savings are considered to begin in the year the appliance is picked up.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Appliance Exchange	When postal code information is provided by customer, results are directly attributed to the LDC. When postal code is not available, results allocated based on average of 2008 & 2009 residential throughput.	Savings are considered to begin in the year that the exchange event occurred.	
HVAC Incentives	Results directly attributed to LDC based on customer postal code.	Savings are considered to begin in the year that the installation occurred.	

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Conservation Instant Coupon Booklet	LDC-coded coupons directly attributed to LDC. Otherwise results are allocated based on average of 2008 & 2009 residential throughput.	Savings are considered to begin in the year in which the coupon was redeemed.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Bi-Annual Retailer Event	Results are allocated based on average of 2008 & 2009 residential throughput.	Savings are considered to begin in the year in which the event occurs.	
Retailer Co-op	When postal code information is provided by the customer, results are directly attributed. If postal code information is not available, results are allocated based on average of 2008 & 2009 residential throughput.	Savings are considered to begin in the year of the home visit and installation date.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Residential Demand Response	Results are directly attributed to LDC based on data provided to IESO through project completion reports and continuing participant lists.	Savings are considered to begin in the year the device was installed and/or when a customer signed a peaksaver PLUS™ participant agreement.	Peak demand savings are based on an ex ante estimate assuming a 1 in 10 weather year and represents the "insurance value" of the initiative. Energy savings are based on an ex post estimate which reflects the savings that occurred as a result of activations in the year and accounts for any "snapback" in energy consumption experienced after the event. Savings are assumed to persist for only 1 year, reflecting that savings will only occur if the resource is activated.

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Residential New Construction	Results are directly attributed to LDC based on LDC identified in application in the iCon system. Initiative was not evaluated in 2011, reported results are presented with forecast assumptions as per the business case.	Savings are considered to begin in the year of the project completion date.	Peak demand and energy savings are determined using the verified measure level per unit assumption multiplied by the uptake in the market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Business Program			
Efficiency: Equipment Replacement	Results are directly attributed to LDC based on LDC identified at the facility level in the iCon system. Projects in the Application Status: "Post-Stage Submission" are included (excluding "Payment denied by LDC"); Please see page for Building type to Sector mapping.	Savings are considered to begin in the year of the actual project completion date in the iCON system.	Peak demand and energy savings are determined by the total savings for a given project as reported in the iCON system (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). Both realization rate and net-to-gross ratios can differ for energy and demand savings and depend on the mix of projects within an LDC territory (i.e. lighting or non-lighting project, engineered/custom/prescriptive track).
Additional Note: project counts were derived by filtering out invalid statuses (e.g. Post-Project Submission - Payment denied by LDC) and only including projects with an "Actual Project Completion Date" in 2014)			

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Direct Installed Lighting	Results are directly attributed to LDC based on the LDC specified on the work order.	Savings are considered to begin in the year of the actual project completion date.	Peak demand and energy savings are determined using the verified measure level per unit assumptions multiplied by the uptake of each measure accounting for the realization rate for both peak demand and energy to reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings take into account net-to-gross factors such as free-ridership and spillover for both peak demand and energy savings at the program level (net).
Existing Building Commissioning Incentive	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year of the actual project completion date.	Peak demand and energy savings are determined by the total savings for a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).
New Construction and Major Renovation Incentive	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year of the actual project completion date.	
Energy Audit	Projects are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year of the audit date.	Peak demand and energy savings are determined by the total savings resulting from an audit as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Commercial Demand Response (part of the Residential program schedule)	Results are directly attributed to LDC based on data provided to IESO through project completion reports and continuing participant lists	Savings are considered to begin in the year the device was installed and/or when a customer signed a peaksaver PLUS™ participant agreement.	Peak demand savings are based on an ex ante estimate assuming a 1 in 10 weather year and represents the "insurance value" of the initiative. Energy savings are based on an ex post estimate which reflects the savings that occurred as a result of activations in the year. Savings are assumed to persist for only 1 year, reflecting that savings will only occur if the resource is activated.
Demand Response 3 (part of the Industrial program schedule)	Results are attributed to LDCs based on the total contracted megawatts at the contributor level as of December 31st, applying the provincial ex ante to contracted ratio (ex ante estimate/contracted megawatts); Ex post energy savings are attributed to the LDC based on their proportion of the total contracted megawatts at the contributor level.	Savings are considered to begin in the year in which the contributor signed up to participate in demand response.	Peak demand savings are ex ante estimates based on the load reduction capability that can be expected for the purposes of planning. The ex ante estimates factor in both scheduled non-performances (i.e. maintenance) and historical performance. Energy savings are based on an ex post estimate which reflects the savings that actually occurred as a results of activations in the year. Savings are assumed to persist for 1 year, reflecting that savings will not occur if the resource is not activated and additional costs are incurred to activate the resource.
Industrial Program			
Process & System Upgrades	Results are directly attributed to LDC based on LDC identified in application.	Savings are considered to begin in the year in which the incentive project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Monitoring & Targeting	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year in which the incentive project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).
Energy Manager	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year in which the project was completed by the energy manager. If no date is specified the savings will begin the year of the Quarterly Report submitted by the energy manager.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net).

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
<p>Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)</p>	<p>Results are directly attributed to LDC based on LDC identified at the facility level in the saveONenergy CRM; Projects in the Application Status: "Post-Stage Submission" are included (excluding "Payment denied by LDC"); Please see "Reference Tables" tab for Building type to Sector mapping.</p>	<p>Savings are considered to begin in the year of the actual project completion date on the iCON CRM system.</p>	<p>Peak demand and energy savings are determined by the total savings for a given project as reported in the iCON CRM system (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). Both realization rate and net-to-gross ratios can differ for energy and demand savings and depend on the mix of projects within an LDC territory (i.e. lighting or non-lighting project, engineered/custom/prescriptive track).</p>
<p>Demand Response 3</p>	<p>Results are attributed to LDCs based on the total contracted megawatts at the contributor level as of December 31st, applying the provincial ex ante to contracted ratio (ex ante estimate/contracted megawatts); Ex post energy savings are attributed to the LDC based on their proportion of the total contracted megawatts at the contributor level.</p>	<p>Savings are considered to begin in the year in which the contributor signed up to participate in demand response.</p>	<p>Peak demand savings are ex ante estimates based on the load reduction capability that can be expected for the purposes of planning. The ex ante estimates factor in both scheduled non-performances (i.e. maintenance) and historical performance. Energy savings are based on an ex post estimate which reflects the savings that actually occurred as a results of activations in the year. Savings are assumed to persist for 1 year, reflecting that savings will not occur if the resource is not activated and additional costs are incurred to activate the resource.</p>

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Home Assistance Program			
Home Assistance Program	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year in which the measures were installed.	Peak demand and energy savings are determined using the measure level per unit assumption multiplied by the uptake of each measure (gross), taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
Aboriginal Program			
Aboriginal Program	Results are directly attributed to LDC based on LDC identified in the application.	Savings are considered to begin in the year in which the measures were installed.	Peak demand and energy savings are determined using the measure level per unit assumption multiplied by the uptake of each measure (gross), taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Pre-2011 Programs completed in 2011			
Electricity Retrofit Incentive Program	Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated in 2011, 2012, 2013 or 2014 assumptions as per 2010 evaluation.	Savings are considered to begin in the year in which a project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported. A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). If energy savings are not available, an estimate is made based on the kWh to kW ratio in the provincial results from the 2010 evaluated results (http://www.powerauthority.on.ca/evaluation-measurement-and-verification/evaluation-reports).
High Performance New Construction	Results are directly attributed to LDC based on customer data provided to the OPA from Enbridge; Initiative was not evaluated in 2011, 2012, 2013 or 2014, assumptions as per 2010 evaluation.	Savings are considered to begin in the year in which a project was completed.	
Toronto Comprehensive	Program run exclusively in Toronto Hydro-Electric System Limited service territory; Initiative was not evaluated in 2011, 2012, 2013 or 2014, assumptions as per 2010 evaluation.		

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Multifamily Energy Efficiency Rebates	Results are directly attributed to LDC based on LDC identified in the application; Initiative was not evaluated in 2011, 2012, 2013 or 2014, assumptions as per 2010 evaluation.	Savings are considered to begin in the year in which a project was completed.	Peak demand and energy savings are determined by the total savings from a given project as reported (reported). A realization rate is applied to the reported savings to ensure that these savings align with EM&V protocols and reflect the savings that were actually realized (i.e. how many light bulbs were actually installed vs. what was reported) (gross). Net savings takes into account net-to-gross factors such as free-ridership and spillover (net). If energy savings are not available, an estimate is made based on the kWh to kW ratio in the provincial results from the 2010 evaluated results (http://www.powerauthority.on.ca/evaluation-measurement-and-verification/evaluation-reports).
Data Centre Incentive Program	Program run exclusively in PowerStream Inc. service territory; Initiative was not evaluated in 2011, assumptions as per 2009 evaluation.		
EnWin Green Suites	Program run exclusively in ENWIN Utilities Ltd. service territory; Initiative was not evaluated in 2011 or 2012, assumptions as per 2010 evaluation.		

Consumer Program Allocation Methodology

Results can be allocated based on average of 2008 & 2009 residential throughput for each LDC (below) when additional information is not available. Source: OEB Yearbook Data 2008 & 2009

Local Distribution Company	Allocation
Algoma Power Inc.	0.2%
Atikokan Hydro Inc.	0.0%
Attawapiskat Power Corporation	0.0%
Bluewater Power Distribution Corporation	0.6%
Brant County Power Inc.	0.2%
Brantford Power Inc.	0.7%
Burlington Hydro Inc.	1.4%
Cambridge and North Dumfries Hydro Inc.	1.0%
Canadian Niagara Power Inc.	0.5%
Centre Wellington Hydro Ltd.	0.1%
Chapleau Public Utilities Corporation	0.0%
COLLUS Power Corporation	0.3%
Cooperative Hydro Embrun Inc.	0.0%
E.L.K. Energy Inc.	0.2%
Enersource Hydro Mississauga Inc.	3.9%
ENTEGRUS	0.6%
ENWIN Utilities Ltd.	1.6%
Erie Thames Powerlines Corporation	0.4%
Espanola Regional Hydro Distribution Corporation	0.1%
Essex Powerlines Corporation	0.7%
Festival Hydro Inc.	0.3%
Fort Albany Power Corporation	0.0%
Fort Frances Power Corporation	0.1%
Greater Sudbury Hydro Inc.	1.0%
Grimsby Power Inc.	0.2%
Guelph Hydro Electric Systems Inc.	0.9%
Haldimand County Hydro Inc.	0.4%
Halton Hills Hydro Inc.	0.5%
Hearst Power Distribution Company Limited	0.1%
Horizon Utilities Corporation	4.0%
Hydro 2000 Inc.	0.0%
Hydro Hawkesbury Inc.	0.1%
Hydro One Brampton Networks Inc.	2.8%
Hydro One Networks Inc.	30.0%
Hydro Ottawa Limited	5.6%
Innisfil Hydro Distribution Systems Limited	0.4%
Kashechewan Power Corporation	0.0%
Kenora Hydro Electric Corporation Ltd.	0.1%
Kingston Hydro Corporation	0.5%
Kitchener-Wilmot Hydro Inc.	1.6%
Lakefront Utilities Inc.	0.2%

Lakeland Power Distribution Ltd.	0.2%
London Hydro Inc.	2.7%
Middlesex Power Distribution Corporation	0.1%
Midland Power Utility Corporation	0.1%
Milton Hydro Distribution Inc.	0.6%
Newmarket - Tay Power Distribution Ltd.	0.7%
Niagara Peninsula Energy Inc.	1.0%
Niagara-on-the-Lake Hydro Inc.	0.2%
Norfolk Power Distribution Inc.	0.3%
North Bay Hydro Distribution Limited	0.5%
Northern Ontario Wires Inc.	0.1%
Oakville Hydro Electricity Distribution Inc.	1.5%
Orangeville Hydro Limited	0.2%
Orillia Power Distribution Corporation	0.3%
Oshawa PUC Networks Inc.	1.2%
Ottawa River Power Corporation	0.2%
Parry Sound Power Corporation	0.1%
Peterborough Distribution Incorporated	0.7%
PowerStream Inc.	6.6%
PUC Distribution Inc.	0.9%
Renfrew Hydro Inc.	0.1%
Rideau St. Lawrence Distribution Inc.	0.1%
Sioux Lookout Hydro Inc.	0.1%
St. Thomas Energy Inc.	0.3%
Thunder Bay Hydro Electricity Distribution Inc.	0.9%
Tillsonburg Hydro Inc.	0.1%
Toronto Hydro-Electric System Limited	12.8%
Veridian Connections Inc.	2.4%
Wasaga Distribution Inc.	0.2%
Waterloo North Hydro Inc.	1.0%
Welland Hydro-Electric System Corp.	0.4%
Wellington North Power Inc.	0.1%
West Coast Huron Energy Inc.	0.1%
Westario Power Inc.	0.5%
Whitby Hydro Electric Corporation	0.9%
Woodstock Hydro Services Inc.	0.3%

Reporting Glossary

Annual: the peak demand or energy savings that occur in a given year (includes resource savings from new program activity and resource savings persisting from previous years).

Cumulative Energy Savings: represents the sum of the annual energy savings that accrue over a defined period (in the context of this report the defined period is 2011 - 2014). This concept does not apply to peak demand savings.

End-User Level: resource savings in this report are measured at the customer level as opposed to the generator level (the difference being line losses).

Free-ridership: the percentage of participants who would have implemented the program measure or practice in the absence of the program.

Incremental: the new resource savings attributable to activity procured in a particular reporting period based on when the savings are considered to 'start'.

Initiative: a Conservation & Demand Management offering focusing on a particular opportunity or customer end-use (i.e. Retrofit, Fridge & Freezer Pickup).

Net-to-Gross Ratio: The ratio of net savings to gross savings, which takes into account factors such as free-ridership and spillover

Net Energy Savings (MWh): energy savings attributable to conservation and demand management activities net of free-riders, etc.

Net Peak Demand Savings (MW): peak demand savings attributable to conservation and demand management activities net of free-riders, etc.

Program: a group of initiatives that target a particular market sector (e.g. Consumer, Industrial).

Realization Rate: A comparison of observed or measured (evaluated) information to original reported savings which is used to adjust the gross savings estimates.

Settlement Account: the grouping of demand response facilities (contributors) into one contractual agreement

Spillover: Reductions in energy consumption and/or demand caused by the presence of the energy efficiency program, beyond the program-related gross savings of the participants. There can be participant and/or non-participant spillover.

Unit: for a specific initiative the relevant type of activity acquired in the market place (i.e. appliances picked up, projects completed, coupons redeemed).

Table 11: Milton Hydro Distribution Inc. Initiative and Program Level Gross Savings by Year

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program									
Appliance Retirement**	Appliances	20	7	12	7	141,076	50,944	76,103	47,915
Appliance Exchange**	Appliances	5	2	6	8	6,700	3,731	11,231	14,038
HVAC Incentives	Equipment	171	137	173	196	312,322	232,941	300,302	354,088
Conservation Instant Coupon Booklet	Items	8	1	3	7	141,621	7,552	38,970	92,892
Bi-Annual Retailer Event	Items	9	9	7	26	153,204	166,434	93,641	400,133
Retailer Co-op	Items	0	0	0	0	0	0	0	0
Residential Demand Response	Devices	0	0	0	468	0	0	0	0
Residential Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Residential New Construction	Homes	0	0	0	280	0	0	0	787,169
Consumer Program Total		212	157	200	992	754,924	461,600	520,247	1,696,236
Business Program									
Retrofit	Projects	151	276	307	470	807,072	1,548,007	2,033,424	2,473,486
Direct Install Lighting	Projects	10	0	3	14	27,874	1,503	10,820	62,274
Building Commissioning	Buildings	0	0	0	0	0	0	0	0
New Construction	Buildings	0	0	0	175	0	0	0	235,176
Energy Audit	Audits	0	0	0	20	0	0	0	97,278
Small Commercial Demand Response	Devices	0	0	0	2	0	0	0	0
Small Commercial Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	98	98	100	72	3,820	1,426	1,329	0
Business Program Total		258	375	410	753	838,767	1,550,936	2,045,573	2,868,215
Industrial Program									
Process & System Upgrades	Projects	0	0	0	0	0	0	0	0
Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0
Energy Manager	Projects	0	0	0	0	0	0	0	0
Retrofit	Projects	25	0	0	0	171,840	0	0	0
Demand Response 3	Facilities	162	142	282	378	9,498	3,429	6,411	0
Industrial Program Total		187	142	282	378	181,338	3,429	6,411	0
Home Assistance Program									
Home Assistance Program	Homes	0	0	2	3	0	0	25,977	35,660
Home Assistance Program Total		0	0	2	3	0	0	25,977	35,660
Aboriginal Program									
Home Assistance Program	Homes	0	0	0	0	0	0	0	0
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0
Aboriginal Program Total		0	0	0	0	0	0	0	0
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	448	0	0	0	2,142,290	0	0	0
High Performance New Construction	Projects	635	1	0	62	3,260,158	1,247	0	318,432
Toronto Comprehensive	Projects	0	0	0	0	0	0	0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0	0	0	0	0	0
LDC Custom Programs	Projects	0	0	0	0	0	0	0	0
Pre-2011 Programs completed in 2011 Total		1,083	1	0	62	5,402,448	1,247	0	318,432
Other									
Program Enabled Savings	Projects	0	0	0	0	0	0	0	0
Time-of-Use Savings	Homes	0	0	0	332	0	0	0	0
LDC Pilots	Projects	0	0	0	0	0	0	0	0
Other Total		0	0	0	332	0	0	0	0
Adjustments to 2011 Verified Results			683	0	0		2,531,090	0	0
Adjustments to 2012 Verified Results				11	15			203,149	87,998
Adjustments to 2013 Verified Results					429				2,148,703
Energy Efficiency Total		1,480	435	512	1,599	7,164,158	2,012,357	2,590,468	4,918,543
Demand Response Total		260	240	381	920	13,318	4,856	7,740	0
Adjustments to Previous Years' Verified Results Total		0	683	11	444	0	2,531,090	203,149	2,236,700
OPA-Contracted LDC Portfolio Total (inc. Adjustments)		1,740	1,359	904	2,964	7,177,477	4,548,303	2,801,357	7,155,243

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

*Includes adjustments after Final Reports were issued
Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

Gross results are presented for informational purposes only and are not considered official 2014 Final Verified Results
**Net results substituted for gross results due to unavailability of data

Table 12: Adjustments to Milton Hydro Distribution Inc. Gross Verified Results due to Variances

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program									
Appliance Retirement	Appliances	0	0	0		0	0	0	
Appliance Exchange	Appliances	0	0	0		0	0	0	
HVAC Incentives	Equipment	-39	1	9		-70,208	3,723	14,159	
Conservation Instant Coupon Booklet	Items	0	0	0		1,458	0	118	
Bi-Annual Retailer Event	Items	1	0	0		13,519	0	0	
Retailer Co-op	Items	0	0	0		0	0	0	
Residential Demand Response	Devices	0	0	0		0	0	0	
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0	
Residential New Construction	Homes	0	0	0		0	0	0	
Consumer Program Total		-38	1	9		-55,231	3,723	14,277	
Business Program									
Retrofit	Projects	0	9	54		0	284,416	250,797	
Direct Install Lighting	Projects	0	0	0		0	0	0	
Building Commissioning	Buildings	0	0	0		0	0	0	
New Construction	Buildings	0	0	354		0	0	1,806,375	
Energy Audit	Audits	0	0	13		0	0	73,359	
Small Commercial Demand Response	Devices	0	0	0		0	0	0	
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Business Program Total		0	9	421		0	284,416	2,130,531	
Industrial Program									
Process & System Upgrades	Projects	0	0	0		0	0	0	
Monitoring & Targeting	Projects	0	0	0		0	0	0	
Energy Manager	Projects	0	0	0		0	0	0	
Retrofit	Projects	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Industrial Program Total		0	0	0		0	0	0	
Home Assistance Program									
Home Assistance Program	Homes	0	0	1		0	3,100	6,732	
Home Assistance Program Total		0	0	1		0	3,100	6,732	
Aboriginal Program									
Home Assistance Program	Homes	0	0	0		0	0	0	
Direct Install Lighting	Projects	0	0	0		0	0	0	
Aboriginal Program Total		0	0	0		0	0	0	
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	0	0	0		0	0	0	
High Performance New Construction	Projects	721	0	0		2,586,321	0	0	
Toronto Comprehensive	Projects	0	0	0		0	0	0	
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0	
LDC Custom Programs	Projects	0	0	0		0	0	0	
Pre-2011 Programs completed in 2011 Total		721	0	0		2,586,321	0	0	
Other									
Program Enabled Savings	Projects	0	0	0		0	0	0	
Time-of-Use Savings	Homes	0	0	0		0	0	0	
LDC Pilots	Projects	0	0	0		0	0	0	
Other Total		0	0	0		0	0	0	
Adjustments to 2011 Verified Results		683				2,531,090			
Adjustments to 2012 Verified Results			11				291,239		
Adjustments to 2013 Verified Results				430				2,151,541	
Total Adjustments to Previous Years' Verified Results		683	11	430		2,531,090	291,239	2,151,541	

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

Gross results are presented for informational purposes only and are not considered official 2014 Final Verified Results

Table 13: Province-Wide Initiatives and Program Level Gross Savings by Year

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program									
Appliance Retirement**	Appliances	6,750	2,011	3,151	3,579	45,971,627	13,424,518	18,616,239	20,315,770
Appliance Exchange**	Appliances	719	556	2,101	2,238	873,531	974,621	3,746,106	3,990,372
HVAC Incentives	Equipment	53,209	38,346	40,418	48,467	99,413,430	66,929,213	71,225,037	90,274,814
Conservation Instant Coupon Booklet	Items	1,184	231	464	1,442	19,192,453	1,325,898	6,842,244	19,000,254
Bi-Annual Retailer Event	Items	1,504	1,622	1,142	4,626	26,899,265	29,222,072	16,441,329	70,254,471
Retailer Co-op	Items	0	0	0	0	3,917	0	0	0
Residential Demand Response	Devices	10,390	49,038	93,076	117,513	23,597	359,408	390,303	8,379
Residential Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Residential New Construction	Homes	0	1	29	587	1,813	4,884	259,826	3,699,786
Consumer Program Total		73,757	91,805	140,380	178,452	192,379,633	112,240,615	117,521,084	207,543,846
Business Program									
Retrofit	Projects	34,201	78,965	82,896	98,849	184,070,265	387,817,248	478,410,896	642,515,421
Direct Install Lighting	Projects	22,155	20,469	19,807	24,794	65,777,197	68,896,046	68,140,249	89,528,509
Building Commissioning	Buildings	0	0	0	988	0	0	0	1,513,377
New Construction	Buildings	247	1,596	2,934	11,911	823,434	3,755,869	9,183,826	37,742,970
Energy Audit	Audits	0	1,450	4,283	9,367	0	7,049,351	23,386,108	46,012,517
Small Commercial Demand Response	Devices	55	187	773	2,116	131	1,068	373	319
Small Commercial Demand Response (IHD)	Devices	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	21,390	19,389	23,706	23,380	633,421	281,823	346,659	0
Business Program Total		78,048	122,056	134,399	171,405	251,304,448	467,801,406	579,468,111	817,313,113
Industrial Program									
Process & System Upgrades	Projects	0	0	313	12,287	0	0	2,799,746	90,463,617
Monitoring & Targeting	Projects	0	0	0	102	0	0	0	502,517
Energy Manager	Projects	0	1,034	3,953	5,767	0	7,067,535	24,438,070	44,929,364
Retrofit	Projects	6,372	0	0	0	38,412,408	0	0	0
Demand Response 3	Facilities	176,180	74,056	162,543	166,082	4,243,958	1,784,712	4,309,160	0
Industrial Program Total		182,552	75,090	166,809	184,238	42,656,366	8,852,247	31,546,976	135,895,498
Home Assistance Program									
Home Assistance Program	Homes	4	1,777	2,361	2,466	56,119	5,524,230	20,987,275	19,582,658
Home Assistance Program Total		4	1,777	2,361	2,466	56,119	5,524,230	20,987,275	19,582,658
Aboriginal Program									
Home Assistance Program	Homes	0	0	267	549	0	0	1,609,393	3,101,207
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0
Aboriginal Program Total		0	0	267	549	0	0	1,609,393	3,101,207
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	40,418	0	0	0	223,956,390	0	0	0
High Performance New Construction	Projects	10,197	6,501	772	268	52,371,183	23,803,888	3,522,240	1,377,475
Toronto Comprehensive	Projects	33,467	0	0	802	174,070,574	0	0	7,085,257
Multifamily Energy Efficiency Rebates	Projects	2,553	0	0	0	9,774,792	0	0	0
LDC Custom Programs	Projects	534	0	0	0	649,140	0	0	0
Pre-2011 Programs completed in 2011 Total		87,169	6,501	772	1,070	460,822,079	23,803,888	3,522,240	8,462,733
Other									
Program Enabled Savings	Projects	0	2,177	3,692	5,500	0	525,011	4,075,382	19,035,337
Time-of-Use Savings	Homes	0	0	0	54,795	0	0	0	0
LDC Pilots	Projects	0	0	0	1,170	0	0	0	5,061,522
Other Total		0	2,177	3,692	60,296	0	525,011	4,075,382	19,035,337
Adjustments to 2011 Verified Results			13,266	645	1,601		48,705,294	20,581	6,028
Adjustments to 2012 Verified Results				8,632	13,449			54,301,893	59,098,939
Adjustments to 2013 Verified Results					34,727				206,413,158
Energy Efficiency Total		213,515	156,735	168,583	289,384	942,317,539	616,320,385	753,683,966	1,210,925,694
Demand Response Total		208,015	142,670	280,099	309,091	4,901,107	2,427,011	5,046,495	8,698
Adjustments to Previous Years' Verified Results Total		0	13,266	9,277	49,777	0	48,705,294	54,322,474	265,518,125
OPA-Contracted LDC Portfolio Total (inc. Adjustments)		421,530	312,671	457,958	648,252	947,218,646	667,452,690	813,052,934	1,476,452,516

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

Gross results are presented for informational purposes only and are not considered official 2014 Final Verified Results
**Net results substituted for gross results due to unavailability of data

Table 14: Adjustments to Province-Wide Gross Verified Results due to Variances

Initiative	Unit	Gross Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Gross Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)			
		2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program									
Appliance Retirement	Appliances	0	0	0		0	0	0	
Appliance Exchange	Appliances	0	0	0		0	0	0	
HVAC Incentives	Equipment	-8,759	1,091	2,157		-16,241,086	1,952,473	3,873,449	
Conservation Instant Coupon Booklet	Items	15	0	1		255,975	0	20,668	
Bi-Annual Retailer Event	Items	117	0	0		2,373,616	0	0	
Retailer Co-op	Items	0	0	0		0	0	0	
Residential Demand Response	Devices	0	0	0		0	0	0	
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0	
Residential New Construction	Homes	1	1	115		330,093	2,009	701,488	
Consumer Program Total		-8,628	1,092	2,273		-13,281,402	1,954,483	4,595,605	
Business Program									
Retrofit	Projects	4,511	10,114	16,584		22,046,931	58,528,789	108,677,566	
Direct Install Lighting	Projects	541	217	49		1,346,618	781,858	174,460	
Building Commissioning	Buildings	0	0	0		0	0	0	
New Construction	Buildings	3,287	2,673	4,151		11,323,593	9,884,305	15,992,924	
Energy Audit	Audits	656	488	3,631		2,391,744	2,386,374	19,822,524	
Small Commercial Demand Response	Devices	0	0	0		0	0	0	
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Business Program Total		8,996	13,491	24,414		37,108,886	71,581,326	144,667,473	
Industrial Program									
Process & System Upgrades	Projects	0	0	426		0	0	1,232,785	
Monitoring & Targeting	Projects	0	0	54		0	528,000	639,348	
Energy Manager	Projects	29	1,071	2,687		0	8,968,007	28,893,596	
Retrofit	Projects	0	0	0		0	0	0	
Demand Response 3	Facilities	0	0	0		0	0	0	
Industrial Program Total		29	1,071	3,168		0	9,496,007	30,765,729	
Home Assistance Program									
Home Assistance Program	Homes	0	222	791		0	1,316,749	4,321,794	
Home Assistance Program Total		0	222	791		0	1,316,749	4,321,794	
Aboriginal Program									
Home Assistance Program	Homes	0	0	134		0	0	563,715	
Direct Install Lighting	Projects	0	0	0		0	0	0	
Aboriginal Program Total		0	0	134		0	0	563,715	
Pre-2011 Programs completed in 2011									
Electricity Retrofit Incentive Program	Projects	266	0	0		1,049,108	0	0	
High Performance New Construction	Projects	13,072	727	405		23,905,663	5,665,066	1,535,048	
Toronto Comprehensive	Projects	0	1,920	529		0	12,924,335	3,783,965	
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0	
LDC Custom Programs	Projects	0	0	0		0	0	0	
Pre-2011 Programs completed in 2011 Total		13,337	2,647	934		24,954,771	18,589,400	5,319,013	
Other									
Program Enabled Savings	Projects	1,776	3,712	2,020		1,673,712	11,481,687	10,688,564	
Time-of-Use Savings	Homes	0	0	0		0	0	0	
LDC Pilots	Projects	0	0	0		0	0	0	
Other Total		1,776	3,712	2,020		1,673,712	11,481,687	10,688,564	
Adjustments to 2011 Verified Results		15,511				50,455,967			
Adjustments to 2012 Verified Results			22,235				114,419,652		
Adjustments to 2013 Verified Results				33,734				200,921,892	
Adjustments to Previous Years' Verified Results Total		15,511	22,235	33,734		50,455,967	114,419,652	200,921,892	

Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).

*Includes adjustments after Final Reports were issued
Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year

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