

November 21, 2013

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

Dear Ms. Walli:

Re: London Hydro Inc. Response to Board Staff Interrogatories 2014 Electricity Distribution Rate Application (EB-2013-0150)

Please find attached the London Hydro Inc. response to Board Staff interrogatories regarding the above application.

Two copies of this letter and response to Board Staff interrogatories filing have been forwarded to your attention via courier.

If you require any additional information or clarification, please do not hesitate to contact either myself, at (519) 661-5800 Ext. 5750 or Judith Nagy at (519) 661-5800 Ext. 5587.

Yours truly,

Original signed by

Mike Chase, CMA. MBA Director of Finance and Regulatory Compliance London Hydro Inc.

London Hydro Inc. Responses to Board Staff Interrogatories EB-2013-0150 Filed: November 21, 2013

EB-2013-0150

IN THE MATTER

of the Ontario Energy Board Act, 1998, S.O. 1998, c. 15 (Schedule B), as amended;

AND IN THE MATTER OF an Application by

London Hydro Inc. for an order or orders approving or fixing just and reasonable rates and other service charges for the distribution of electricity, to be effective May 1, 2014.

Responses to Interrogatories Ontario Energy Board Staff (Board Staff) Filed: November 21, 2013

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London Hydro Inc.

2014 IRM Distribution Rate Application (EB-2013-0150)

Response to Board Staff Interrogatories:

OEB - # 1 LRAM/LRAMVA

Ref: 2014 IRM Application, page 13-18 of 22 Ref: Board's CDM Guidelines (EB-2012-0003)1

London Hydro has requested the recovery of lost revenues related to CDM programs delivered in 2011 and 2012 in the total amount of \$59,376.55. London Hydro has stated that its request has been prepared in accordance with the Board's CDM Guidelines issued March 28, 2008 (the "2008 CDM Guidelines"). London Hydro has requested recovery over a one-year period.

London Hydro has further indicated that it is not applying for disposition of its LRAMVA (Account 1568) at this time.

The Board's CDM Guidelines (EB-2012-0003) issued on April 26, 2012 (the "2012 CDM Guidelines") outline the process for recovering lost revenues related to CDM Programs delivered between 2011-2014 and authorized the establishment of the LRAMVA to capture the differences between the CDM impacts included in a distributors load forecast and the actual, verified impacts of authorized CDM activities undertaken by the distributor.

a) Please confirm that London Hydro is only requesting recovery of lost revenues (\$59,376.55) associated with CDM programs delivered in 2011 and 2012 which will count towards London Hydro's CDM Targets. If London Hydro has included lost revenues from other programs, please provide a detailed explanation and supporting materials for any other programs that are included in London Hydro's request.

RESPONSE

Yes. London Hydro has only included in its LRAM application filing those savings reflected in the OPA Verified Annual 2012 CDM Report_London Hydro Inc, for CDM programs both delivered in 2012, and adjustments to previous year's verified result (Year 2011). London Hydro has not included lost revenues from other programs.

b) If the answer to a) is yes, please discuss why London Hydro has not characterized its request for lost revenues as a request for disposition of its LRAMVA as outlined in the Board's 2012 CDM Guidelines.

RESPONSE

Based on the Board's 2012 CDM Guidelines (EB-2012-0003) London Hydro has amended its LRAM Recoveries application in order to characterize our request for lost revenues as a request for disposition of LRAMVA, rather than LRAM based on 2008 CDM Guidelines.

Therefore, London Hydro understands that the 2012 CDM Guidelines reflect that Lost Revenue Adjustment Mechanism Variance Account ("LRAMVA") accommodates the recovery of lost revenues resulting from CDM initiatives for the period 2011-2014. London Hydro in its 2013 Cost of Service application (EB-2012-0146) concluded claim to LRAM recoveries for 2011 and 2012 lost distribution revenues due to persistent 2010 CDM programs funded by the OPA. Thus the Cost of Service completed claims to LRAM as to 2006 to 2010 OPA programs with persistence to 2012.

The 2013 Cost of Service application also concluded recoveries for 2011 lost distribution revenues due to 2011 CDM programs funded by the OPA, and recoveries for 2012 lost distribution revenues due to persistent 2011 CDM programs funded by the OPA.

In order to proceed with the requirements for 2012 CDM Guidelines, to provide for both appropriate LRAMVA disposition data as well as updated Deferral and Variance Account determinants, London Hydro must reflect applicable recoveries for 2011 lost distribution revenues due to 2011 CDM programs funded by the OPA, and recoveries for 2012 lost distribution revenues due to persistent 2011 CDM programs funded by the OPA. As included in London Hydro's 2014 IRM application requesting recovery of 2012 OPA CDM activities, which also should be incorporated in the determinants for LRAMVA disposition/ LRAMVA Deferral Account.

In Appendix A London Hydro has provided evidence's to establish amended LRAMVA disposition as well as determining the LRAMVA Deferral Account amounts. The assumptions included OPA provided figures for energy (kWh) savings to be assumed at annual values. Peak Demand (kW) savings should be extended by the number of months for the program. To determine estimated dollar (kWh) savings, OPA figures for kWh savings are multiplied by the applicable volumetric distribution rates (Residential and GS under 50 kW rate classes) for both 2011 OPA programs and for 2012 OPA programs.

As for determination of estimated dollar (kW) savings, OPA figures for kW savings are multiplied by the applicable volumetric distribution rates (GS 50-4,999 rate class) for 2011 OPA programs and for 2012 OPA programs, and extended by the number of months of the CDM program.

London Hydro has determined a LRAMVA claim of \$190,847.64, including carrying charges to April 30, 2014, and allocated by rate class as reflected in the Table (2012 LRAMVA Rate Riders) below. The Table also reflects proposed rate riders for the disposition of the 2012 LRAMVA claim.

2012 LRAMVA Rate Riders

effective May 1, 2014

Customer Class	Savings	Amount	Carrying Charges	то	otal LRAMVA	Billing Determinants	Unit	Rate Rider
Residential	11,163 MWh	\$ 34,780.56	\$ 1,669.50	\$	36,450.06	1,085,576,654	kWh	\$ 0.00003
GS < 50 kW	4,712 MWh	\$ 300.38	\$ 215.30	\$	515.67	398,880,653	kWh	\$ -
GS 50 to 4,999 kW	101 MW	\$ 149,057.94	\$ 4,823.97	\$	153,881.91	3,932,952	kW	\$ 0.03913
Totals		\$ 184,138.87	\$ 6,708.77	\$	190,847.64			

c) If London Hydro agrees that its lost revenue request is properly characterized as a disposition of its LRAMVA, please update the Deferral and Variance Account rate schedule accordingly.

RESPONSE

Please review reply in OEB #1 LRAM / LRAMVA Item b). The LRAMVA has been amended to 2012 CDM Guidelines and reflected in Appendix A. The Deferral and Variance Account rate schedule is updated and reflected in Appendix C.

d) Please confirm that London Hydro has not previously recovered any of the amounts claimed in this application in previous applications.

RESPONSE

Please review reply in OEB #1 LRAM / LRAMVA Item b).

In order to proceed with the requirements for 2012 CDM Guidelines, to provide for both appropriate LRAMVA disposition data as well as updated Deferral and Variance Account determinants, London Hydro must reflect applicable recoveries for 2011 lost distribution revenues due to 2011 CDM programs funded by the OPA, and recoveries for 2012 lost distribution revenues due to persistent 2011 CDM programs funded by the OPA. As included in London Hydro's 2014 IRM application requesting recovery of 2012 OPA CDM activities, which also should be incorporated in the determinants for LRAMVA disposition/ LRAMVA Deferral Account.

In London Hydro's 2013 Cost of Service application the Board approved recoveries for 2011 lost distribution revenues due to 2011 CDM programs funded by the OPA, and recoveries for 2012 lost distribution revenues due to persistent 2011 CDM programs funded by the OPA. The Board approved these recoveries, which includes carrying charges to April 30, 2013, through a one-year rate riders commencing May 1, 2013.

The approved recovery balance of \$176,092, including carrying charges up to May 1, 2013, has been identified in Appendix A (schedule 1568 LRAMVA Adjustment). London Hydro is not claiming any recoveries in this application for any approved recoveries made in previous applications.

With reference to London Hydro's amounts for recovery of 2012 OPA CDM activities, London Hydro has not previously recovered any of the amounts claimed in this 2014 IRM rate application in previous applications.

e) Please discuss if London Hydro relied on the final OPA 2012 Results in its calculation of its lost revenues. If London Hydro has not relied on the final OPA 2012 Results in preparing its application, please update the lost revenue calculations accordingly.

RESPONSE

London Hydro had relied only on the 2012 Verified Annual 2012 CDM Report (OPA 2012 Results). However, the Final OPA 2012 results were not available to London Hydro at the time of submission of the 2014 IRM rate application.

Therefore, please find in Appendix B a copy of the OPA Annual CDM Report – Final Verified Results, which London Hydro has utilized to update for lost revenues.

f) The net 2012 savings values included in Table 5 on page 17 for various programs (highlighted in the table below) do not appear to correspond to the energy (kWh) savings and/or peak (kW) demand savings in Table 3 on Page 15 for the corresponding programs. Please reconcile.

RESPONSE

Although this spreadsheet has been superseded with amendments, as a result of Board Staff Intervenor Questions and following the requirements for 2012 CDM Guidelines, London Hydro had thought best to present the excel spreadsheet view with these two tables (this at time of original 2014 IRM application). Please see tables below.

The two tables do have totals that agree and correspond to the energy (kWh) savings and / or peak (kW) demand savings. The difficulty is perhaps due to the combined column of both kWh and kW reflected in the load impact of table 5: Forgone Revenue by Program and Class.

We apologize for any inconveniences as a result of challenges in reconciling the two Tables.

Reflected on Page 15 of Application (Table 3)

Reflected on Page 17 of Application (Table 5)

2012

855,87

-245.26 kWh \$ 0.0142

38,18 kWh 0.0143

7.52

178,74 731,36 kWh kWh \$ 0.0143 \$ 0.0143

59,62 kWh 0.0142

2,705,90

836.80 kWh \$ 0.0092

297,630 kWh

77,18 kWh \$ 0.0092

228.41 kWh \$ 0.0092

23,30 kWh

7,75

,971. kW kW 1.6223

162.5

994 kW 1.6223

kWh 2,57 226,58 kWh kWh \$ 0.0092 \$ 0.0091

> kW 1.6223

kWh 17,21 1,062,63 kWh 0.0143

kWh 0.0143

kWh

Rate per

0.0143

0.0142

\$ 0.0091

\$ 0.0091

\$ 0.0092

1.6223

12,238.9

246.1

15,195.68

(3.482.69)

546.00

106.90

2,556.04 10.458.46

846.68

38,712,2

7,698,64

2,708.43

710.06

2 101 41

212.10

71.31

23.7

2.061.93

3,198.95

263.60

1,612.57

1.6

Unit

Total Revenue

12,238.9

246.17 15,195.68

(3.482.69

546.00

106.90

2,556.04

846.68 38,712,22

7.698.6

2,708.43

710.08

2.101.41

212.10

71.31

23.70 2,061.93

5,587.58

3,198.95

263.60

1,612.57

16

London Hydro Inc.	
OPA CDM Program	Load Impacts (2012)

London Hudro Inc

2011/ 2012 Data from OPA Verfied Results

		2012		2012		TOTA	L	TOTA	L		
		NET		GROSS		NET	1	GROSS			
Class/ Program	Year Program Implimented	kWh	Kw	kWh	Kw	kWh	Kw	kWh	Kw		Year Program mpliment
RESIDENTIAL										RESIDENTIAL	
Appliance Retirement	2012	855.873	179.0	1.860.593	416.3	855.873	179.0	1.860.593	416.3	Appliance Retirement	2012
Appliance Exchange	2012	17.215	10.0	33,106	410.3	17.215	10.0	33,106	410.3		2012
Hypriance Exchange HVAC Incentives	2012	1.062.635	609.0	2.168.643	1218.0	1.062.635	609.0	2.168.643	1.218.0	HVAC Incentives	2012
HVAC Incentives	2012	-245.260	-137.0	-500.531	-274.0	-245.260	-137.0	-500.531	-274.0		2012
Conservative Instant Coupon Booklet	2011	-240,200	6.0	36,364	-2/4.0	-240,200	-137.0	36.364	-2/4.0		2012
Conservative Instant Coupon Booklet	2012	7.528	0.0	7,170	0.0	7.528	0.0	7,170	0.0	Conservative Instant Coupon Booklet	2012
Home Assistance Program	2011	178,744	14.0	n/a	n/a	178,744	14.0	7,170	0.0	Home Assistance Program	2011
Bi-Annual Retailer Event	2012	731.361	40.0	794.958	44.0	731.361	40.0	794.958	44.0	Bi-Annual Retailer Event	2012
Bi-Annual Retailer Event	2012	59.625	40.0	64.810	3.3	59.625	40.0	64.810	3.3		2012
DI-ATITIUAL RELATELE EVENIL	2011	39,023	5.0	04,010	0.0	09,020	3.0	04,010	0.0	Di-Allitudi Retaller Event	2011
Residential Total		2,705,903	724.0	4,465,112	1,432.8	2,705,903	724.0	4,465,112	1,432.8	Residential Total	
General Service < 50 kW										General Service < 50 kW	
Retrofit	2012	836.808	176.1	1.086.764	228.7				228.7	Retmit	2012
				1		836,808	176.1	1,086,764		NUM	
Retrofit	2011	297,630	56.0	386,532	72.7	297,630	56.0	386,532	72.7	Retrofit	2011
High Performance New Construction	2012	77,180	15	n/a	n/a	77,180	14.5			High Performance New Construction	2012
Direct Install Lighting	2012	228,414	61.0	242,994	64.9	228,414	61.0	242,994	64.9		2012
Direct Install Lighting	2011	23,308	9.0	24,796	9.6	23,308	9.0	24,796	9.6	Direct Install Lighting	2011
Demand Response 3	2012	7,751	533.0	n/a	n/a	7,751	533.0			Demand Response 3	2012
New Construction	2012	2,576	3.0	n/a	n/a	2,576	3.0			New Construction	2012
Energy Audit	2011	226,586	47.0	n/a	n/a	226,586	47.0			Energy Audit	2011
Total General Service < 50 kW		1,700,254	900	1,741,086	376	1,700,254	899.7	1,741,086	375.9	Total General Service < 50 kW	
General Service 50 kW to 4.999 kW										General Service 50 kW to 4.999 kW	
	0040	0.000.470	4.074.0	10,100,157	0500.0	0.000.470	4.074.0	10,100,157	0.500.0		0040
Retorfit	2012 2012	9,368,172 864.044		12,166,457	2560.9	9,368,172	1,971.9	12,166,457	2,560.9	Retorfit High Performance New Construction	2012 2012
High Performance New Construction				n/a	n/a	864,044					
Demand Response 3	2012	23,964		n/a	n/a	23,964	994.0			Demand Response 3	2012
Energy Manager	2012	30,445	1.0	33,456	1.1	30,445	1.0			Energy Manager	2012
Total General Service 50 to 4,999 kW		10,286,624	3,129.4	12,199,913	2,562	10,286,624	3,129.4	12,166,457	2,560.9	Total General Service 50 to 4,999 kW	
Total Load Impacts from OPA programs		14.692.781	4.753	18.406.111	4.371	 14.692.781	4.753	18.372.655	4,370	Total Forgone Revenue OPA programs	

Forgone Revenue by Program and Class	
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g) Please discuss why London Hydro has not included all of the 2011 programs (i.e. the Appliance Retirement and Appliance Exchange programs) in its lost revenue calculations.

<u>RESPONSE</u>

Those 2011 CDM programs that are reflected in the OPA Verified Annual 2012 CDM Report London Hydro were included for LRAM recovery in London Hydro's 2013 Cost of Service Rate Application (EB-2012-0146). The LRAM rate rider is presently in place for these savings until April 30, 2014.

The OPA Verified Annual 2012 CDM Report London Hydro does contain "Adjustments to Previous Year's Verified Results" in which adjustments of 2011 and carried into the 2012 report. The following copies of the OPA Verified Annual 2012 CDM Report London Hydro reflect the 2011 program adjustments.

OEB - # 2. Non-Loss Adjusted Metered Billed kWh and kW

Ref: RTSR Model

A portion of Sheet "4. RRR Data" from the RTSR Model is reproduced below.

Rate Class	Unit	Non-Loss Adjusted Metered kWh	Non-Loss Adjusted Metered kW	Applicable Loss Factor	Load Factor	Loss Adjusted Billed kWh	Billed kW
Residential	kWh	1,103,889,962		1.0350		1,142,526,111	
General Service Less Than 50 kW	kWb	400,003,533		1.0350		414,003,657	-
General Service 50 to 4,999 kW	kW	405,941,130	1,167,979		47.64%	405,941,130	1,167,979
General Service 50 to 4,999 kW – nterval Metered General Service 1,000 To 4,999 kW	kW	1,089,147,192	2,662,421		56.07%	1,089,147,192	2,662.421
co-generation)	kW	39,375,740	46,415		116.27%	39,375,740	46,415
Standby Power - APPROVED ON AN INTERIM BASIS	kW		154,800		0.00%		154,800
arge Use	kW	183,363,380	389,123		64.59%	183,363,380	389,123
Street Lighting	kW	23,812,743	66,305		49.22%	23,812,743	66,305
Sentinel Lighting	kW	790,064	2,146		50.46%	790,064	2,146
Unmetered Scattered Load	kWh	5,600,414		1.0350		5,796,428	

a. Please confirm that the amounts entered into the columns "Non-Loss Adjusted Metered kWh" and "Non-Loss Adjusted Metered kW" have not been adjusted by London Hydro's Board-approved loss factor.

RESPONSE OEB IR # 2

London Hydro confirms that the amounts entered into the columns "Non-Loss Adjusted Metered kWh" and "Non-Loss Adjusted Metered kW" have not been adjusted by London Hydro's Board-approved loss factor.

All Respectfully Submitted

Appendix A

1568 LRAM Variance Account and

2012 LRAMVA Rate Riders

London Hydro - LRAMVA Calculations for Year 2011

	Net Savings - YEA	R 2011 Programs				L	RAMVA Quantitie	25	Variable Dist	ribution Rates	LRAMVA YEAR 2011	N
Initiative	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)	Mont	ths	Billing Deteminants	Level of CDM Activities Approved and Included in Load Forecast*	Actual Results (OPA Report)	LRAM Variance (kWh or kW)	2010 (effective May 1, 2010)	2011 (effective May 1, 2011)	Amount (\$)	
Consumer Program												st
ppliance Retirement	167	1,002,610	Jan-Dec	12	kWh		1,002,610	1,002,610	0.0140	0.0139	\$ 13,970	F
ppliance Exchange	12	15,910	Jan-Dec	12	kWh		15,910	15,910	0.0140	0.0139	\$ 222	N
VAC Incentives	1,052	1,901,868	Jan-Dec	12	kWh		1,901,868	1,901,868	0.0140	0.0139	\$ 26,499	A
onservation Instant Coupon Booklet	32	512,644	Jan-Dec	12	kWh		512,644	512,644	0.0140	0.0139	\$ 7,143	N
-Annual Retailer Event	46	802,521	Jan-Dec	12	kWh		802,521	802,521	0.0140	0.0139	\$ 11,182	J.
ome Assistance Program	0	0	Jan-Dec	12	kWh		-	-	0.0140	0.0139	\$ -	1
djustment to Previous Year's Verified Results:											s -	А
VAC Incentives	(137)	(245,124)	Jan-Dec	12	kWh		(245,124)	(245,124)	0.0140	0.0139	\$ (3,415)	s
Conservation Instant Coupon Booklet	0	7,528	Jan-Dec	12	kWh		7,528	7,528	0.0140	0.0139	\$ 105	0
i-Annual Retailer Event	3	59,625	Jan-Dec	12	kWh		59,625	59,625	0.0140	0.0139	\$ 831	N
							22,025	22,025				
esidential Total	1,175	4,057,582				-	4,057,582	4,057,582	\$ 0.0140	\$ 0.0139	\$ 56,536	
isiness Program	<u>.</u>											
trofit	85	431,349	Jan-Dec	12	kWh		431,349	431,349	0.0090	0.0089	\$ 3,853	
irect Install Lighting	56	145,929	Jan-Dec	12	kWh		145,929	145,929	0.0090	0.0089	\$ 1,304	
ew Construction	0	0	Jan-Dec	12	kWh		-	-	0.0090	0.0089	\$ -	
trofit - Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	11	62,006	Jan-Dec	12	kWh		62,006	62,006	0.0090	0.0089	\$ 554	
emand Response 3	485	19,012	May-Sep	5	kWh		19,012	19,012	0.0090	0.0089	\$ 169	
re-2011 Programs completed in 2011:												
ectricity Retrofit Incentive Program	111	797,576	Jan-Dec	12	kWh		797,576	797,576	0.0090	0.0089	\$ 7,125	
igh Performance New Construction	14	71,004	Jan-Dec	12	kWh		71,004	71,004	0.0090	0.0089	\$ 634	-
djustment to Previous Year's Verified Results:							-	-				-
etrofit	5	24,406	Jan-Dec	12	kWh		24,406	24,406	0.0090	0.0089	\$ 218	-
irect Install Lighting	9	23,308	Jan-Dec	12	kWh		23,308	23,308	0.0090	0.0089	\$ 208	-
nergy Audit	47	226,586	Jan-Dec	12	kWh		226,586	226,586	0.0090	0.0089	\$ 2,024	
igh Performance New Construction	(0)	(2,751)	Jan-Dec	12	kWh		(2,751)	(2,751)	0.0090	0.0089	\$ (25)	
ign Performance New Construction	(0)	(2,731)	Jan-Dec	12	KVVII		(2,/51)	(2,751)	0.0090	0.0089	\$ (25)	
eneral Services Less than 50 kW Total	822	1,798,425					1,798,425	1,798,425	\$ 0.0090	\$ 0.0089	\$ 16,066	
dustrial Program	949	4,829,004	Jan Da	12	Law.		11.200	11,388	1.5001	1 5022	\$ 18.041	
etrofit	0	4,829,004	Jan-Dec	12	kW		11,388		1.5881	1.5822	+	-
ergy Manager trofit - Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	118	694,168	Jan-Dec Jan-Dec	12 12	kW kW		- 1,411	- 1,411	1.5881	1.5822	\$ - \$ 2,235	
	2,137	125,454							1.5881	4 5000		
emand Response 3	2,157	125,454	May-Sep	5	kW		10,686	10,686	1.5881	1.5822	\$ 16,908	Summer me
re-2011 Programs completed in 2011:	1.249	8 038 056							4 5004	4 5022	A	-
ectricity Retrofit Incentive Program	1,248	8,928,956	Jan-Dec	12	kW		14,973	14,973	1.5881	1.5822	\$ 23,719	
igh Performance New Construction	155	794,900	Jan-Dec	12	kW		1,857	1,857	1.5881	1.5822	\$ 2,942	-
djustment to Previous Year's Verified Results:												-
ectricity Retrofit Incentive Program	52	273,225	Jan-Dec	12	kW		621	621	1.5881	1.5822	\$ 983	1
gh Performance New Construction	(2)	(30,794)	Jan-Dec	12	kW		(20)	(20)	1.5881	1.5822	\$ (31))
eneral Services 50 kW to 4,999 kW Total	4,656	15,614,913				-	40,916	40,916	\$ 1.5881	\$ 1.5822	\$ 64,797	
	6,653	21,470,919					5,896,922					-

Monthly	/ Savings - 2011		
	Residential (kWh)	GS<50 kW (kWh)	GS>50 kW (kW)
Jan	338,132	148,284	2,519
Feb	338,132	148,284	2,519
Mar	338,132	148,284	2,519
Apr	338,132	148,284	2,519
May	338,132	152,087	4,656
Jun	338,132	152,087	4,656
Jul	338,132	152,087	4,656
Aug	338,132	152,087	4,656
Sep	338,132	152,087	4,656
Oct	338,132	148,284	2,519
Nov	338,132	148,284	2,519
Dec	338,132	148,284	2,519

Assumes demand response resources have a persistence of 1 year *No CDM activity is incorporated into load forecast prior Year 2013

Allocation of programs:

Allocation of programs:	Retrofit	New Construction
to General Services Less than 50 kW (business programs)	8.2%	8.2%
to General Services 50 kW to 4,999 kW (Industrial programs)	91.8%	91.8%
	100.0%	100.0%

London Hydro - LRAMVA Calculations for Year 2012

	Net Savings - YEAR 2011 in 20		Net Savings - YEA	AR 2012 Programs				L	RAMVA Quantitie	!S	Variable Dist	ribution Rates		RAMVA AR 2012
Initiative	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)	Mont	hs	Billing Deteminants	Level of CDM Activities Approved and Included in Load Forecast*	Actual Results (OPA Report)	LRAM Variance (kWh or kW)	2011 (effective May 1, 2011)	2012 (effective May 1, 2012)		Amount (\$)
Consumer Program														
Appliance Retirement	167	1,002,610	179	855,873	Jan-Dec	12	kWh		1,858,483	1,858,483	0.0139	0.01394	\$	25,882
Appliance Exchange	12	15,910	10	17,215	Jan-Dec	12	kWh		33,125	33,125	0.0139	0.01394	\$	461
HVAC Incentives	1,052	1,901,868	652	1,100,981	Jan-Dec	12	kWh		3,002,850	3,002,850	0.0139	0.01394	\$	41,820
Conservation Instant Coupon Booklet	32	512,644	6	38,182	Jan-Dec	12	kWh		550,827	550,827	0.0139	0.01394	\$	7,671
Bi-Annual Retailer Event	46	802,521	40	731,361	Jan-Dec	12	kWh		1,533,882	1,533,882	0.0139	0.01394	\$	21,362
Home Assistance Program	0	0	29	304,467	Jan-Dec	12	kWh		304,467	304,467	0.0139	0.01394	\$	4,240
Adjustment to Previous Year's Verified Results:														
HVAC Incentives	(137)	(245,124)			Jan-Dec	12	kWh		(245,124)	(245,124)	0.0139	0.01394	s	(3,414)
Conservation Instant Coupon Booklet	0	7,528			Jan-Dec	12	kWh		7,528	7,528	0.0139	0.01394	\$	105
Bi-Annual Retailer Event	3	59,625			Jan-Dec	12	kWh		59,625	59,625	0.0139	0.01394	\$	830
		· · · · · · · · · · · · · · · · · · ·							-	-				
Residential Total	1,175	4,057,582	916	3,048,080				-	7,105,662	7,105,662	\$ 0.01390	\$ 0.01394	\$	98,958
Business Program														
Retrofit	85	431,349	176	855,571	Jan-Dec	12	kWh		1,286,920	1,286,920	0.0089	0.00922	<	11,728
Direct Install Lighting	56	145,929	61	228,414	Jan-Dec	12	kWh		374,343	374,343	0.0089	0.00922	\$	3,412
New Construction	0	0	5	19,535	Jan-Dec	12	kWh		19,535	19,535	0.0089	0.00922	\$	178
Retrofit - Efficiency: Equipment Replacement Incentive (part of the	11	62,006			Jan-Dec	12	kWh		62,006	62,006	0.0089	0.00922	¢	565
C&I program schedule)					Jan-Dec	12	KVVN		62,006	62,006	0.0089	0.00922	Ş	202
Demand Response 3	0	0	533	7,751	May-Sep	5	kWh		7,751	7,751	0.0089	0.00922	\$	71
Pre-2011 Programs completed in 2011:													L	
Electricity Retrofit Incentive Program	111	797,576			Jan-Dec	12	kWh		797,576	797,576	0.0089	0.00922	\$	7,269
High Performance New Construction	14	71,004	8	22,395	Jan-Dec	12	kWh		93,399	93,399	0.0089	0.00922	\$	851
Adjustment to Previous Year's Verified Results:									-	-			L	
Retrofit	5	24,406			Jan-Dec	12	kWh		24,406	24,406	0.0089	0.00922	\$	222
Direct Install Lighting	9	23,308			Jan-Dec	12	kWh		23,308	23,308	0.0089	0.00922	\$	212
Energy Audit	47	226,586			Jan-Dec	12	kWh		226,586	226,586	0.0089	0.00922	\$	2,065
High Performance New Construction	(0)	(2,751)			Jan-Dec	12	kWh		(2,751)	(2,751)	0.0089	0.00922	\$	(25)
General Services Less than 50 kW Total	337	1,779,413	783	1,133,666				-	2,913,079	2,913,079	\$ 0.00890	\$ 0.00922	\$	26,548
Industrial Decemen														
Industrial Program Retrofit	949	4,829,004	1,972	9,578,223	Jan-Dec	12	kW		35,048	35,048	1.5822	1.59092	¢	55,657
Energy Manager	0	4,829,004	1,572	30,445	Jan-Dec	12	kW		35,048	35,048	1.5822	1.59092	\$	26
Retrofit - Efficiency: Equipment Replacement Incentive (part of the	118	694,168			Jan-Dec	12	kW		1,411	1,411	1.5822	1.59092	s	2,240
C&I program schedule)	0	0	994	23,964					4.972		1.5822		6	
Demand Response 3	U	U	994	23,904	May-Sep	5	kW		4,972	4,972	1.5822	1.59092	Ş	7,910
Pre-2011 Programs completed in 2011:	1.249	0.020.056	· · · · · · · · · · · · · · · · · · ·			42	1.11	l			4 5000	4.50000		22 755
Electricity Retrofit Incentive Program	1,248	8,928,956	87	250 710	Jan-Dec	12	kW	l	14,973	14,973	1.5822	1.59092	\$	23,777
High Performance New Construction	155	794,900	8/	250,710	Jan-Dec	12	kW	l	2,902	2,902	1.5822	1.59092	<u>ې</u>	4,609
Adjustment to Previous Year's Verified Results:	52	272.225		l		42		l			4 5000	4 50000		0.77
Electricity Retrofit Incentive Program	52	273,225		<u> </u>	Jan-Dec	12	kW	l	621	621	1.5822	1.59092	\$	985
High Performance New Construction	(2)	(30,794)			Jan-Dec	12	kW		(20)	(20)	1.5822	1.59092	>	(31)
General Services 50 kW to 4,999 kW Total	2,519	15,489,459	3,054	9,883,342				-	59,923	59,923	\$ 1.58220	\$ 1.59092	\$	95,174
			1										1	

Monthly Savings - 2012

(kWh)

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

592,138

592,138

592,138

592,138

592,138

592,138

592,138

592,138

592,138

592,138

592,138

592,138

Residential GS<50 kW GS>50 kW

(kWh)

242,111

242,111

242,111

242,111

243,661

243,661

243,661

243,661

243,661

242,111

242,111

242,111

(kW)

4,579

4,579

4,579

4,579

5,574

5,574

5,574

5,574

5,574

4,579

4,579

4,579

Assumes demand response resources have a persistence of 1 year

*No CDM activity is incorporated into load forecast prior Year 2013

Allocation of programs:

Allocation of programs:	Retrofit	New Construction
to General Services Less than 50 kW (business programs)	8.2%	8.2%
to General Services 50 kW to 4,999 kW (Industrial programs)	91.8%	91.8%
	100.0%	100.0%

LONDON HYDRO - 1568 LRAM Variance Account

			A	II Classes -			Y	ear-to-Date		
	Al	Classes -		Principal	Interest	Carrying		Carrying		Account
Month /Year		Amount		Balance	Rate*	Charges**		Charges		Balance
January 2011	\$	10,069	\$	10,069	1.47%	\$-	\$	-	\$	10,069.08
February 2011	\$	10,069	\$	20,138	1.47%	\$ 11.35	\$	11.35	\$	20,149.52
March 2011	\$	10,069	\$	30,207	1.47%	\$ 25.14	\$	36.50	\$	30,243.75
April 2011	\$	10,069	\$	40,276	1.47%	\$ 36.50	\$	72.99	\$	40,349.33
May 2011	\$	13,421	\$	53,697	1.47%		\$	123.28	\$	53,820.58
June 2011	\$	13,421	\$	67,118	1.47%		\$	188.16	\$	67,306.41
July 2011	\$	13,421	\$	80,539	1.47%		\$	271.95		80,811.17
August 2011	\$	13,421	\$	93,960	1.47%		\$	372.51	\$	94,332.68
September 2011	\$	13,421	\$	107,381	1.47%	• • • • • •	\$	486.03	ŝ	107,867.17
October 2011	\$	10,006	\$	117,387	1.47%		\$	620.10	ŝ	118,006.81
November 2011	\$	10,006	\$	127,392	1.47%	• • • • •	\$	761.92	\$	128,154.22
December 2011	\$	10,006	\$	137,398	1.47%		\$	920.97	\$	138,318.85
January 2012	\$	17,631	\$	155,029	1.47%		\$	1,092.04	\$	156,120.79
February 2012	\$	17,631	\$	172,660	1.47%		\$	1,272.61	\$	173,932.23
March 2012	\$	17,631	\$	190,290	1.47%		\$	1,487.59	\$	191,778.08
April 2012	\$	17.631	\$	207,921	1.47%		\$	1,716.87	\$	209,638.24
May 2012	\$	19,368	\$	227,290	1.47%	•	\$	1,975.75		229,265.33
June 2012	\$	19.368	\$	246,658	1.47%		\$	2,249.62		248.907.40
July 2012	\$	19,368	\$	266,026	1.47%		\$	2,556.73	\$	268,582.71
August 2012	\$	19,368	\$	285,394	1.47%		\$	2,887.95	\$	288,282.14
September 2012	\$	19,368	\$	304,762	1.47%		\$	3.231.83	\$	307,994.22
October 2012	\$	17,772		322,534	1.47%	\$ 379.45	\$	3,611.28	\$	326,145.64
November 2012	\$	17,772	\$	340,306	1.47%		\$	3.999.91	\$	344.306.24
December 2012	\$	17,772	\$	358,078	1.47%	\$ 423.71	\$	4,423.62	\$	362,501.91
January 2013	\$	-	\$	358,078	1.47%	\$ 447.06	\$	4,870.68	\$	362,948.97
February 2013	\$	-	\$	358,078	1.47%	\$ 403.79	\$	5,274.47	\$	363,352.76
March 2013	\$	-	\$	358,078	1.47%	\$ 447.06	\$	5,721.53	\$	363,799.82
April 2013	\$	-	\$	358,078	1.47%	\$ 432.64	\$	6,154.17	\$	364,232.46
Approved for recovery as LRAM effective May 1, 2013***	\$	(173,939)				\$ (2,152.24)			\$	(176,091.66)
May 2013	\$	-	\$	184,139	1.47%	\$ 229.90	\$	4,231.82		188,370.70
June 2013	\$	-	\$	184,139	1.47%	\$ 222.48	\$	4,454.30	\$	188,593.18
July 2013	\$	-	\$	184,139	1.47%	\$ 229.90	\$	4,684.20	\$	188,823.07
August 2013	\$	-	\$	184,139	1.47%	\$ 229.90	\$	4,914.10	\$	189,052.97
September 2013	\$	-	\$	184,139	1.47%		\$	5,136.58	\$	189,275.45
October 2013	\$	-	\$	184,139	1.47%	\$ 229.90	\$	5,366.47	\$	189,505.35
November 2013	\$	-	\$	184,139	1.47%	\$ 222.48	\$	5,588.95	\$	189,727.83
December 2013	\$	-	\$	184,139	1.47%		\$	5,818.85	\$	189,957.72
January 2014	\$	-	\$	184,139	1.47%		\$	6,048.74		190,187.62
February 2014	\$	-	\$	184,139	1.47%		\$	6,256.39	\$	190,395.27
March 2014	\$	-	\$	184,139	1.47%		\$	6,486.29	\$	190,625.16
April 2014	\$	-	\$	184,139	1.47%	\$ 222.48	\$	6,708.77	\$	190,847.64

*Board Prescribed Interest Rate

Carrying charges on opening principal balances *Approved for recovery as LRAM, effective May 1, 2013; as per 2013 COS Rate Applicaton Decision - EB-2012-0146

LONDON HYDRO - 1568 LRAM Variance Acco

Sub-account Residential

Month /Year	Savings Month	Billing Determinants	iffective able Rates		Amount		rincipal Balance	Interest Rate*	Days		Carrying harges**	Year-to-Date Carrying Charges	Account Balance
January 2011	338,132	kWh	\$ 0.01400	¢	4,734		4,734	1.47%	31	s		\$ -	\$ 4,733.85
February 2011	338,132	kWh	\$	φ \$	4,734		9,468	1.47%	28	φ \$		\$	\$ 9.473.0
March 2011	338,132	kWh	\$	\$	4,734		14,202	1.47%	31	φ \$	11.82		\$ 14,218.69
April 2011	338,132	kWh	\$ 0.01400		4,734		18,935	1.47%	30	\$	17.16		18,969.70
May 2011	338,132	kWh	\$	\$	4,700		23,635	1.47%	31	\$		\$ 57.96	23,693.3
June 2011	338,132	kWh	\$	\$	4,700		28,335	1.47%	30	\$	28.56		\$ 28,421.9
July 2011	338,132	kWh	\$	\$	4,700		33,035	1.47%	31	\$		\$ 121.89	33,157.3
August 2011	338,132	kWh	\$ 0.01390		4,700		37,736	1.47%	31	\$	41.24		\$ 37,898.6
September 2011	338,132	kWh	\$ 0.01390		4,700		42,436	1.47%	30	\$	45.59		42,644.2
October 2011	338,132	kWh	\$ 0.01390		4.700		47,136	1.47%	31	\$		\$ 261.71	47,397.2
November 2011	338,132	kWh	\$ 0.01390		4,700	•	51,836	1.47%	30	\$	56.95	•	\$ 52,154.20
December 2011	338,132	kWh	\$ 0.01390		4,700		56,536	1.47%	31	\$	64.72		\$ 56,919.0
January 2012	592,138	kWh	\$	\$	8,231		64,766	1.47%	31	\$	70.39		\$ 65.220.13
February 2012	592,138	kWh	\$ 0.01390		8,231		72,997	1.47%	29	\$	75.44	• • • •	73,526.29
March 2012	592,138	kWh	\$ 0.01390		8,231		81,228	1.47%	31	\$	90.89		81,847.90
April 2012	592,138	kWh	\$	\$	8,231		89,459	1.47%	30	\$	97.87		\$ 90,176.50
May 2012	592,138	kWh	\$ 0.01394		8,254		97,713	1.47%	31	\$	111.38		98,542.29
June 2012	592,138	kWh	\$	\$	8,254	\$	105.967	1.47%	30	\$		\$ 947.08	106.914.44
July 2012	592,138	kWh	\$ 0.01394		8,254		114,222	1.47%	31	\$	131.94		115,300.79
August 2012	592,138	kWh	\$ 0.01394		8,254		122,476	1.47%	31	\$	142.22	. ,	123,697.41
September 2012	592,138	kWh	\$ 0.01394	\$	8,254	\$	130,731	1.47%	30	\$	147.57	\$ 1,368.81	\$ 132,099.40
October 2012	592,138	kWh	\$ 0.01394		8,254		138,985	1.47%	31	\$	162.77	. ,	140,516.58
November 2012	592,138	kWh	\$ 0.01394	\$	8,254	\$	147,239	1.47%	30	\$	167.47		148,938.4
December 2012	592,138	kWh	\$ 0.01394	\$	8,254	\$	155,494	1.47%	31	\$	183.33	\$ 1,882.37	\$ 157,376.19
January 2013						\$	155,494	1.47%	31	\$	194.13	\$ 2,076.50	\$ 157,570.3
February 2013						\$	155,494	1.47%	28	\$	175.35	\$ 2,251.85	\$ 157,745.67
March 2013						\$	155,494	1.47%	31	\$	194.13	\$ 2,445.98	\$ 157,939.80
April 2013						\$	155,494	1.47%	30	\$	187.87	\$ 2,633.85	\$ 158,127.67
Approved for recovery as LRAM effective May 1, 2013***				\$	(120,713)					\$	(1,475.62)		\$ (122,188.88
May 2013						\$	34,781	1.47%	31	\$	43.42	\$ 1,201.65	\$ 35,982.21
June 2013						\$	34,781	1.47%	30	\$	42.02	\$ 1,243.68	\$ 36,024.23
July 2013						\$	34,781	1.47%	31	\$	43.42	\$ 1,287.10	\$ 36,067.66
August 2013						\$	34,781	1.47%	31	\$	43.42	\$ 1,330.52	\$ 36,111.08
September 2013						\$	34,781	1.47%	30	\$	42.02	\$ 1,372.54	\$ 36,153.10
October 2013						\$	34,781	1.47%	31	\$	43.42	\$ 1,415.97	\$ 36,196.53
November 2013						\$	34,781	1.47%	30	\$	42.02	\$ 1,457.99	\$ 36,238.55
December 2013						\$	34,781	1.47%	31	\$	43.42	\$ 1,501.41	\$ 36,281.97
January 2014						\$	34,781	1.47%	31	\$	43.42	\$ 1,544.84	\$ 36,325.39
February 2014						\$	34,781	1.47%	28	\$	39.22		\$ 36,364.62
March 2014						\$	34,781	1.47%	31	\$	43.42		\$ 36,408.04
April 2014						\$	34,781	1.47%	30	\$	42.02	\$ 1,669.50	\$ 36,450.06

*Board Prescribed Interest Rate

Carrying charges on opening principal balances *Approved for recovery as LRAM, effective May 1, 2013; as per

LONDON HYDRO - 1568 LRAM Variance Acco

Sub-account General Services Less than 50 kW

	Savings	Billing		fective		Principal	Interest			arrying	Year-to-Date Carrying	Account
Month /Year	Month	Determinants	Varia	ble Rates	Amount	Balance	Rate*	Days	Cł	narges**	Charges	Balance
January 2011	148,284	kWh	\$	0.00900	\$ 1,334.56	\$ 1,334.56	1.47%	31	\$	-	\$-	\$ 1,334.56
February 2011	148,284	kWh	\$	0.00900	\$ 1,334.56	\$ 2,669.12	1.47%	28	\$	1.50	\$ 1.50	\$ 2,670.62
March 2011	148,284	kWh	\$	0.00900	\$ 1,334.56	\$ 4,003.68	1.47%	31	\$	3.33	\$ 4.84	\$ 4,008.52
April 2011	148,284	kWh	\$	0.00900	\$ 1,334.56	\$ 5,338.24	1.47%	30	\$	4.84	\$ 9.67	\$ 5,347.91
May 2011	152,087	kWh	\$	0.00890	\$ 1,353.57	\$ 6,691.81	1.47%	31	\$	6.66	\$ 16.34	\$ 6,708.15
June 2011	152,087	kWh	\$	0.00890	\$ 1,353.57	\$ 8,045.38	1.47%	30	\$	8.09	\$ 24.42	\$ 8,069.81
July 2011	152,087	kWh	\$	0.00890	\$ 1,353.57	\$ 9,398.96	1.47%	31	\$	10.04	\$ 34.47	\$ 9,433.42
August 2011	152,087	kWh	\$	0.00890	\$ 1,353.57	\$ 10,752.53	1.47%	31	\$	11.73	\$ 46.20	\$ 10,798.73
September 2011	152,087	kWh	\$	0.00890	\$ 1,353.57	\$ 12,106.10	1.47%	30	\$	12.99	\$ 59.20	\$ 12,165.29
October 2011	148,284	kWh	\$	0.00890	\$ 1,319.73	\$ 13,425.83	1.47%	31	\$	15.11	\$ 74.31	\$ 13,500.14
November 2011	148,284	kWh	\$	0.00890	\$ 1,319.73	\$ 14,745.56	1.47%	30	\$	16.22	\$ 90.53	\$ 14,836.09
December 2011	148,284	kWh	\$	0.00890	\$ 1,319.73	16,065.29	1.47%	31	\$	18.41	\$ 108.94	\$ 16,174.23
January 2012	242,111	kWh	\$	0.00890	\$ 2,154.79	\$ 18,220.08	1.47%	31	\$	20.00	\$ 128.94	\$ 18,349.02
February 2012	242,111	kWh	\$	0.00890	\$ 2,154.79	\$ 20,374.86	1.47%	29	\$	21.22	\$ 150.17	\$ 20,525.03
March 2012	242,111	kWh	\$	0.00890	\$ 2,154.79	\$ 22,529.65	1.47%	31	\$	25.37	\$ 175.53	\$ 22,705.18
April 2012	242,111	kWh	\$	0.00890	\$ 2,154.79	\$ 24,684.43	1.47%	30	\$	27.15	\$ 202.68	\$ 24,887.11
May 2012	243,661	kWh	\$	0.00922	2,246.55	26,930.99	1.47%	31	\$	30.73		\$ 27,164.40
June 2012	243,661	kWh	\$	0.00922	\$ 2,246.55	\$ 29,177.54	1.47%	30	\$	32.45	\$ 265.86	\$ 29,443.40
July 2012	243,661	kWh	\$	0.00922	2,246.55	31,424.09	1.47%	31	\$	36.33		\$ 31,726.29
August 2012	243,661	kWh	\$	0.00922	\$ 2,246.55	33,670.65	1.47%	31	\$	39.13		\$ 34,011.97
September 2012	243,661	kWh	\$	0.00922	\$ 2,246.55	\$ 35,917.20	1.47%	30	\$	40.57	\$ 381.89	\$ 36,299.09
October 2012	242,111	kWh	\$	0.00922	2,232.26	38,149.46	1.47%	31	\$	44.72		\$ 38,576.07
November 2012	242,111	kWh	\$	0.00922	\$ 2,232.26	\$ 40,381.72	1.47%	30	\$	45.97	\$ 472.57	\$ 40,854.30
December 2012	242,111	kWh	\$	0.00922	2,232.26	42,613.98	1.47%	31	\$	50.28		\$ 43,136.84
January 2013						\$ 42,613.98	1.47%	31	\$	53.20	\$ 576.06	\$ 43,190.04
February 2013						\$ 42,613.98	1.47%	28	\$	48.05	\$ 624.11	\$ 43,238.09
March 2013						\$ 42,613.98	1.47%	31	\$	53.20	\$ 677.31	\$ 43,291.30
April 2013						\$ 42,613.98	1.47%	30	\$	51.49	\$ 728.80	\$ 43,342.78
Approved for recovery as LRAM effective May 1, 2013***					\$ (42,313.60)				\$	(517.92)		\$ (42,831.52
May 2013						\$ 300.38	1.47%	31	\$	0.38	\$ 211.26	\$ 511.63
June 2013						\$ 300.38	1.47%	30	\$	0.36	\$ 211.62	\$ 512.00
July 2013						\$ 300.38	1.47%	31	\$	0.38	\$ 211.99	\$ 512.37
August 2013						\$ 300.38	1.47%	31	\$	0.38	\$ 212.37	\$ 512.75
September 2013						\$ 300.38	1.47%	30	\$	0.36	\$ 212.73	\$ 513.11
October 2013						\$ 300.38	1.47%	31	\$	0.38	\$ 213.11	\$ 513.48
November 2013						\$ 300.38	1.47%	30	\$	0.36	\$ 213.47	\$ 513.85
December 2013						\$ 300.38	1.47%	31	\$	0.38	\$ 213.84	\$ 514.22
January 2014						\$ 300.38	1.47%	31	\$	0.38	\$ 214.22	\$ 514.60
February 2014						\$ 300.38	1.47%	28	\$	0.34		\$ 514.94
March 2014						\$ 300.38	1.47%	31	\$	0.38		\$ 515.31
April 2014						\$ 300.38	1.47%	30	\$	0.36		\$ 515.67

*Board Prescribed Interest Rate

Carrying charges on opening principal balances *Approved for recovery as LRAM, effective May 1, 2013; as per

LONDON HYDRO - 1568 LRAM Variance Acco

Sub-account General Services 50 kW to 4,999 kW

Month /Year	Savings Month	Billing Determinants		ective ble Rates		Amount		Principal Balance	Interest Rate*	Days		arrying harges**	C	ar-to-Date Carrying Charges		Account Balance
January 2011	2,519	kW	\$	1.58810		4,000.68		4,000.68	1.47%	31	\$	-	\$	-	\$	4,000.68
February 2011	2,519	kW	\$	1.58810	\$	4,000.68	\$	8,001.36	1.47%	28	\$	4.51	\$	4.51	\$	8,005.87
March 2011	2,519	kW	\$	1.58810	\$	4,000.68	\$	12,002.04	1.47%	31	\$	9.99	\$	14.50	\$	12,016.54
April 2011	2,519	kW	\$	1.58810	\$	4,000.68		16,002.72	1.47%	30	\$	14.50	\$	29.00	\$	16,031.72
May 2011	4,656	kW	\$	1.58220	\$	7,367.36	\$	23,370.07	1.47%	31	\$	19.98	\$	48.98	\$	23,419.05
June 2011	4,656	kW	\$	1.58220	\$	7,367.36	\$	30,737.43	1.47%	30	\$	28.24	\$	77.22	\$	30,814.64
July 2011	4,656	kW	\$	1.58220	\$	7,367.36	\$	38,104.78	1.47%	31	\$	38.38	\$	115.59	\$	38,220.38
August 2011	4,656	kW	\$	1.58220	\$	7,367.36	\$	45,472.14	1.47%	31	\$	47.57	\$	163.17	\$	45,635.30
September 2011	4,656	kW	\$	1.58220	\$	7,367.36	\$	52,839.49	1.47%	30	\$	54.94	\$	218.11	\$	53,057.60
October 2011	2,519	kW	\$	1.58220	\$	3,985.82		56,825.31	1.47%	31	\$	65.97	\$	284.08	\$	57,109.39
November 2011	2,519	kW	\$	1.58220	\$	3,985,82	\$	60.811.13	1.47%	30	\$	68.66	\$	352.73	\$	61,163.86
December 2011	2,519	kW	\$		\$	3,985.82	•	64,796.94	1.47%	31	\$	75.92		428.66	\$	65,225.60
January 2012	4,579	kW	\$		\$		\$	72.042.31	1.47%	31	\$		\$	509.33	\$	72.551.64
February 2012	4,579	kW	\$	1.58220		7,245.36		79,287.67	1.47%	29	\$		\$	593.25	\$	79,880.91
March 2012	4,579	kW	\$	1.58220		7,245.36		86,533.03	1.47%	31	\$	98.72		691.97	\$	87,225.00
April 2012	4,579	kW	\$		\$	7,245.36		93,778.40	1.47%	30	\$		\$	796.23	\$	94,574.63
May 2012	5,574	kW	Ψ \$	1.59092		8,867.24		102,645.64	1.47%	31	\$	116.76		912.99	\$	103,558.63
June 2012	5,574	kW	Ψ \$	1.59092		8,867.24		111,512.88	1.47%	30	\$	123.68		1,036.67	\$	112,549.55
July 2012	5,574	kW	э \$	1.59092		8,867.24		120,380.12	1.47%	30 31	э \$	123.00		1,175.51	э \$	121,555.64
August 2012	5,574	kW	э \$	1.59092		8,867.24		120,380.12	1.47%	31	э \$	149.88			э \$	130,572.76
5	5,574	kW	э \$	1.59092		8,867.24		,	1.47%	30	э \$	149.88		1,325.40		130,572.70
September 2012 October 2012	5,574 4,579	kW	э \$	1.59092		0,007.24 7,285.30		138,114.61	1.47%	30 31	э \$	155.73		1,461.13	э \$	139,595.74
			•			,		145,399.90								,
November 2012	4,579 4,579	kW kW	\$ \$	1.59092		7,285.30 7,285.30		152,685.20 159,970.49	1.47% 1.47%	30	\$	175.19	\$ \$	1,828.29 2,018.39	\$ \$	154,513.49 161,988.89
December 2012	4,579	KVV	Ф	1.59092	þ	7,285.30	\$	159,970.49	1.47%	31 31	\$ \$	<u>190.11</u> 199.72		2,018.39		161,988.89
January 2013							-									,
February 2013							\$	159,970.49	1.47%	28	\$	180.39			\$	162,369.00
March 2013							\$	159,970.49	1.47%	31	\$	199.72		2,598.23	\$	162,568.72
April 2013							\$	159,970.49	1.47%	30	\$	193.28	\$	2,791.51	\$	162,762.00
Approved for recovery as LRAM effective May 1, 2013***					\$	(10,912.55)					\$	(158.70)			\$	(11,071.25)
May 2013								149,057.94	1.47%	31	\$	186.10		2,818.91	\$	151,876.85
June 2013							\$	149,057.94	1.47%	30	\$	180.09		2,999.01	\$	152,056.95
July 2013							\$	149,057.94	1.47%	31	\$	186.10			\$	152,243.04
August 2013							\$	149,057.94	1.47%	31	\$	186.10		3,371.20	\$	152,429.14
September 2013							\$	149,057.94	1.47%	30	\$	180.09		3,551.30	\$	152,609.24
October 2013	1						\$	149,057.94	1.47%	31	\$	186.10	\$	3,737.40	\$	152,795.34
November 2013							\$	149,057.94	1.47%	30	\$	180.09		3,917.49	\$	152,975.43
December 2013							\$	149,057.94	1.47%	31	\$	186.10		4,103.59	\$	153,161.53
January 2014							\$	149,057.94	1.47%	31	\$	186.10	\$	4,289.69	\$	153,347.63
February 2014	1						\$	149,057.94	1.47%	28	\$	168.09	\$	4,457.78	\$	153,515.71
March 2014	1						\$	149,057.94	1.47%	31	\$	186.10	\$	4,643.87	\$	153,701.81
April 2014							\$	149,057.94	1.47%	30	\$	180.09	\$	4,823.97	\$	153,881.91

*Board Prescribed Interest Rate

Carrying charges on opening principal balances *Approved for recovery as LRAM, effective May 1, 2013; as per

2012 LRAMVA Rate Riders

effective May 1, 2014

Customer Class	Savings	Amount	Carrying Charges	Т	otal LRAMVA	Billing Determinants	Unit	Rate Rider
Residential	11,163 MWh	\$ 34,780.56	\$ 1,669.50	\$	36,450.06	1,085,576,654	kWh	\$ 0.00003
GS < 50 kW	4,712 MWh	\$ 300.38	\$ 215.30	\$	515.67	398,880,653	kWh	\$ -
GS 50 to 4,999 kW	101 MW	\$ 149,057.94	\$ 4,823.97	\$	153,881.91	3,932,952	kW	\$ 0.03913
Totals		\$ 184,138.87	\$ 6,708.77	\$	190,847.64			

Appendix B

OPA Annual CDM Report 2012

Final Verified Results



Message from the Vice President:

The OPA is pleased to provide you with the enclosed Final 2012 Results Report. We have seen a 39% increase in energy savings for our new province-wide 2011-2014 suite of saveONenergy initiatives. Overall progress to targets is moving up with 29% of demand and 65% of energy savings achieved. Many LDCs, both large and small, continue to stay on track to meet or exceed their OEB targets. Conservation programs continue to be a valuable and cost effective resource for customers across the province, over the past two years the program cost to consumers remains within 3 cents per kWh.

Further to programmatic savings, capability building efforts launched in 2011 are yielding healthy enabled savings through Embedded Energy Managers and Audit initiative projects. The strong momentum continues in 2013.

We remain committed to ensuring LDCs are successful in meeting their objectives and our collective efforts to date have improved the current program suite by offering more local program opportunities, implementing a new expedited change management process, and enhancing incentives to make it easier for customers to participate in programs. We invite you to continue to provide your feedback to us and to celebrate our successes as we move forward.

The format of this report was developed in collaboration with the OPA-LDC Reporting and Evaluation Working Group and is designed to help populate LDC annual report templates that will be submitted to the OEB in late September. All results are now considered final for 2012. Any additional 2012 program activity not captured will be reported in the Final 2013 Results Report.

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

We appreciate your ongoing collaboration and cooperation throughout the reporting and evaluation process. We look forward to another successful year.

Sincerely,

Andrew Pride

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OPA-Contracted Province-Wide CDM Programs FINAL 2012 Results

LDC: London Hydro Inc.

FINAL 2012 Progress to Targets	2012 Incremental	Program-to-Date Progress to Target (Scenario 1)	Scenario 1: % of Target Achieved	Scenario 2: % of Target Achieved
Net Annual Peak Demand Savings (MW)	4.7	7.1	17.1%	20.7%
Net Energy Savings (GWh)	14.4	126.8	80.9%	81.0%

Scenario 1 = Assumes that demand resource resources have a persistence of 1 year

Scenario 2 = Assumes that demand response resources remain in your territory until 2014

Achievement by Sector



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

The following graphs assume that demand response resources remain in your territory until 2014 (aligns with Scenario 2)

% of OEB Peak Demand Savings Target Achieved



% of OEB Energy Savings Target Achieved

London Hydro Inc.

25

20

15

10

5

0

0-5% 10-15%

of LDCs in Each Progress Bucket

			Increment	al Activity		Net Incre	emental Peak	ear (Scenario Demand Savir	ngs (kW)		remental Energy Sav			Program-to-Date Verif (exclud	
Initiative	Unit			occurring w orting period				gs from activity orting period)	within the	(new energy sa	vings from activity w reporting period)		ecified	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
		2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
Consumer Program					1		1								
Appliance Retirement	Appliances	2,458	2,370			167	179			1,002,610	855,873			332	6,566,149
Appliance Exchange	Appliances	118	65			12	10			15,910	17,215			15	109,140
HVAC Incentives	Equipment	3,827	2,994			1,052	652			1,901,868	1,100,981			1,704	10,910,417
Conservation Instant Coupon Booklet	Items	13,699	844			32	6			512,644	38,182			38	2,165,124
Bi-Annual Retailer Event	Items	23,767	28,971			46	40			802,521	731,361			86	5,404,167
Retailer Co-op	Items	0	0			0	0			0	0			0	0
Residential Demand Response (switch/pstat)	Devices	0	0			0	0			0	0			0	0
Residential Demand Response (IHD)	Devices	0	0			0				0					
Residential New Construction	Homes	0	0			0	0			0	0			0	0
Consumer Program Total Business Program						1,309	887			4,235,553	2,743,613			2,175	25,154,997
Retrofit	Projects	118	261			1,034	2,148			5,260,353	10,433,795			3,035	51,600,932
Direct Install Lighting	Projects	40	74			56	61			145,929	228,414			110	1,245,702
Building Commissioning	Buildings	0	0			0	0			0	0			0	0
New Construction	Buildings	0	2			0	5			0	19,535			5	58,606
Energy Audit	Audits	0	0			0	0			0	0			0	0
Small Commercial Demand Response	Devices	0	0			0	0			0	0			0	0
Small Commercial Demand Response (IHD)	Devices	0	0			0				0				0	0
Demand Response 3	Facilities	5	6			487	533			19,012	7,751			0	26,763
Business Program Total						1,577	2,746			5,425,294	10,689,495			3,149	52,932,002
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	6			0	1			0	30,445			1	91,335
Retrofit	Projects	17				128				756,174				127	3,021,719
Demand Response 3	Facilities	4	4			2,137	994			125,454	23,964			0	149,417
Industrial Program Total						2,265	996			881,628	54,409			129	3,262,471
Home Assistance Program															
Home Assistance Program	Homes	0	330			0	29			0	304,467			29	913,401
Home Assistance Program Total						0	29			0	304,467			29	913,401
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	130	0			1,359	0			9,726,531	0			1,359	38,906,125
High Performance New Construction	Projects	5	3			169	95			865,905	273,104			263	4,282,930
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 Tota						1,528	95			10,592,436	273,104			1,623	43,189,055
Other								1				· · · · ·			· · ·
Program Enabled Savings	Projects	0	0			0	0			0	0			0	0
	Homes	-	-			-	-			-	-				
Time-of-Use Savings				1			0				0			0	0
Time-of-Use Savings Other Total															
	esults						-23				336,008			-34	1,311,482
Other Total Adjustments to Previous Year's Verified Re	esults					4,054	-23 3,225			20,990,445	336,008			-34 7,105	1,311,482
Other Total Adjustments to Previous Year's Verified Re Energy Efficiency Total	esults					4,054				20,990,445 144,465					
Other Total Adjustments to Previous Year's Verified Re							3,225				14,033,373			7,105	125,275,747
Other Total Adjustments to Previous Year's Verified Re Energy Efficiency Total Demand Response Total (Scenario 1) OPA-Contracted LDC Portfolio Total (inc. A	djustments)	Due to the limi	ted timeframe	e of data. whi	ch didn't inclu	2,624 6,678	3,225 1,528 4,730	HD results have	peen deemed	144,465	14,033,373 31,715	Full O	FB Target*	7,105 0 7,071	125,275,747 176,180 126,763,409
Other Total Adjustments to Previous Year's Verified Re Energy Efficiency Total Demand Response Total (Scenario 1)	djustments) r each year and	inconclusive. T	he IHD line ite	em on the 201	2 annual repo	2,624 6,678 de the summer r rt will be left bla	3,225 1,528 4,730 nonths, 2012 nk. Once a full	HD results have year of data is a t the quantified	vailable	144,465 21,134,911	14,033,373 31,715		EB Target:	7,105 0 7,071 41,440	125,275,747 176,180

Initiative	Unit	(new prog the sp	ncrementa ram activit ecified rep	y occurrin orting per	riod)	(new peal within th	mental Pea (kW demand sine specified	/) avings fron reporting	n activity period)	(new energy spec	nental Energy S savings from ac cified reporting	ctivity with period)	in the	Target (e 2014 Net Annual Peak Demand Savings (kW)	Verified Progress to ccludes DR) 2011-2014 Net Cumulative Energy Savings (kWh)
		2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
Consumer Program					1							1	1		
Appliance Retirement	Appliances	0				0				0				0	0
Appliance Exchange	Appliances	0				0				0				0	0
HVAC Incentives	Equipment	-508				-137				-245,124				-137	-980,496
Conservation Instant Coupon Booklet	Items	224				0				7,528				0	30,111
Bi-Annual Retailer Event	Items	2,234				3				59,625				3	238,498
Retailer Co-op	Items	0				0				0		_		0	0
Residential Demand Response (switch/pstat)*	Devices	0				0				0				0	0
Residential Demand Response (IHD)	Devices	0				0				0				0	0
Residential New Construction	Homes	0				0				0				0	0
Consumer Program Total						-134				-177,972				-134	-711,887
Business Program				1								1			
Retrofit	Projects	8				56				297,630				52	1,175,680
Direct Install Lighting	Projects	6				9				23,308				2	75,522
Building Commissioning	Buildings	0				0				0				0	0
New Construction	Buildings	0				0				0				0	0
Energy Audit	Audits	9				47				226,586				47	906,345
Small Commercial Demand Response (switch/pstat)*	Devices	0				0				0				0	0
Small Commercial Demand Response (IHD)	Devices	0				0				0				0	0
Demand Response 3*	Facilities	0				0				0				0	0
Business Program Total						112				547,524				101	2,157,547
Industrial Program															
Process & System Upgrades	Projects	0				0				0				0	0
Monitoring & Targeting	Projects	0				0				0				0	0
Energy Manager	Projects	0				0				0				0	0
Retrofit	Projects	0				0				0				0	0
Demand Response 3*	Facilities	0				0				0				0	0
Industrial Program Total						0				0				0	0
Home Assistance Program															
Home Assistance Program	Homes	0				0				0				0	0
Home Assistance Program Total						0				0				0	0
Pre-2011 Programs completed in 2011														-	
Electricity Retrofit Incentive Program	Projects	0				0				0				0	0
High Performance New Construction	Projects	0				-2				-33,545				-2	-134,179
Toronto Comprehensive	Projects	0				0				0				0	0
Multifamily Energy Efficiency Rebates	Projects	0				0				0				0	0
LDC Custom Programs	Projects	0				0				0				0	0
Pre-2011 Programs completed in 2011 Total	FIOJECIS	0				-2				-33,545				-2	-134,179
rie-2011 riograms completed in 2011 Total						-2				-33,345				-2	-134,179
Other		-													
Program Enabled Savings	Projects	0				0				0				0	0
Time-of-Use Savings	Homes														
Other Total						0				0				0	0
Adjustments to Previous Year's Verified Results						-23				336,008				-34	1,311,482

Table 2: Adjustments to London Hydro Inc. Verified Results due to Errors or Omissions (Scenario 1)

* Activity & savings for Demand Response resources for each year and quarter represent the savings from all active facilities or devices contracted since January 1, 2011.

Table 3: London Hydro Inc. Realization Rate & NTG

					nd Savings	;						Energy	Savings			
Initiative		Realizatio	n Rate			Net-to-Gro	ss Ratio			Realizatio	on Rate			Net-to-Gro	ss Ratio	
	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014
Consumer Program																
Appliance Retirement		1.00				0.43				1.00				0.46		
Appliance Exchange		1.00				0.52				1.00				0.52		
HVAC Incentives		1.00				0.50				1.00				0.49		
Conservation Instant Coupon Booklet		1.00				1.00				1.00				1.05		
Bi-Annual Retailer Event		1.00				0.91				1.00				0.92		
Retailer Co-op		n/a				n/a				n/a				n/a		
Residential Demand Response (switch/pstat)*		n/a				n/a				n/a				n/a		
Residential Demand Response (IHD)		n/a				n/a				n/a				n/a		
Residential New Construction		n/a				n/a				n/a				n/a		
Business Program																
Retrofit		0.95				0.77				1.10				0.77		
Direct Install Lighting		0.68				0.94				0.85				0.94		
Building Commissioning		n/a				n/a				n/a				n/a		
New Construction		0.97				0.49				1.52				0.49		
Energy Audit		n/a				n/a				n/a				n/a		
Small Commercial Demand Response (switch/pstat)*		n/a				n/a				n/a				n/a		
Small Commercial Demand Response (IHD)		n/a				n/a				n/a				n/a		
Demand Response 3*		n/a				n/a				n/a				n/a		
Industrial Program			•				·			•				·	·	
Process & System Upgrades		n/a				n/a				n/a				n/a		
Monitoring & Targeting		n/a				n/a				n/a				n/a		
Energy Manager		0.46				0.90				0.46				0.90		
Retrofit																
Demand Response 3*		n/a				n/a				n/a				n/a		
Home Assistance Program																
Home Assistance Program		1.11				1.00				1.00				1.00		
Pre-2011 Programs completed in 2011																
Electricity Retrofit Incentive Program		n/a				n/a				n/a				n/a		
High Performance New Construction		1.00				0.50				1.00				0.50		
Toronto Comprehensive		n/a				n/a				n/a				n/a		
Multifamily Energy Efficiency Rebates		n/a				n/a				n/a				n/a		
LDC Custom Programs		n/a				n/a				n/a				n/a		
Other														·		
Program Enabled Savings		n/a				n/a				n/a				n/a		
Time-of-Use Savings		n/a				n/a				n/a				n/a		

Progress Towards CDM Targets

Results are attributed to target using current OPA 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. Please see methodology tab for more detailed information.

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

Implementation Period	Annual												
Implementation Period	2011	2012	2013	2014									
2011 - Verified	6.7	4.1	4.1	4.0									
2012 - Verified		4.7	3.1	3.1									
2013													
2014													
Ve	rified Net Annual Pe	eak Demand Savin	gs Persisting in 2014:	7.1									
	I CDM Capacity Target	41.4											
Verified Po	Verified Portion of Peak Demand Savings Target Achieved in 2014(%												

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

Implementation Period		Annual											
Implementation Period	2011	2012	2013	2014	2011-2014								
2011 - Verified	21.1	21.0	21.0	20.9	84.0								
2012 - Verified		14.4	14.1	13.9	42.7								
2013													
2014													
		Verified N	let Cumulative Energy	Savings 2011-2014:	126.8								
	CDM Energy Target	156.6											
	rget Achieved (%):	80.9%											

*2011 energy adjustments included in cumulative energy savings.

			Incrementa	l Activity			emental Peak	Demand Savi			remental Energy Sav			Program-to-Date Verif (exclud	ied Progress to Target es DR)
Initiative	Unit		ogram activity specified repo		thin the		lemand saving specified repo		within the	(new energy sa	avings from activity w reporting period)		ecified	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
		2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
Consumer Program				1								1	1		
Appliance Retirement	Appliances	56,110	34,146			3,299	2,011			23,005,812	13,424,518			5,171	132,176,857
Appliance Exchange	Appliances	3,688	3,836			371	556			450,187	974,621			689	4,512,525
HVAC Incentives	Equipment	111,587	85,221			32,037	19,060			59,437,670	32,841,283			51,097	336,274,530
Conservation Instant Coupon Booklet	Items	559,462	30,891			1,344	230			21,211,537	1,398,202			1,575	89,040,754
Bi-Annual Retailer Event	Items	870,332	1,060,901			1,681	1,480			29,387,468	26,781,674	-		3,161	197,894,897
Retailer Co-op	Items	152	0			0	0			2,652	0			0	10,607
Residential Demand Response (switch/pstat)*	Devices	19,550	98,388			10,947	49,038			24,870	359,408			0	384,279
Residential Demand Response (IHD)	Devices	0	49,689			0				0					
Residential New Construction	Homes	7	19			0	2			743	17,152			2	54,430
Consumer Program Total						49,681	72,377			133,520,941	75,796,859			61,696	760,348,879
Business Program				1							T		1		
Retrofit	Projects	2,516	5,605			24,467	61,147			136,002,258	314,922,468			84,018	1,480,647,459
Direct Install Lighting	Projects	20,297	18,494			23,724	15,284			61,076,701	57,345,798			31,181	391,072,869
Building Commissioning	Buildings	0	0			0	0			0	0			0	0
New Construction	Buildings	10	69			123	764			411,717	1,814,721			888	7,091,031
Energy Audit	Audits	103	280			0	1,450			0	7,049,351			1,450	21,148,054
Small Commercial Demand Response	Devices	132	294			84	187			157	1,068			0	1,224
Small Commercial Demand Response (IHD)	Devices	0	0			0				0				0	0
Demand Response 3*	Facilities	145	151			16,218	19,389			633,421	281,823			0	915,244
Business Program Total						64,617	98,221			198,124,253	381,415,230			117,535	1,900,875,881
Industrial Program								r					1		
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	39			0	1,086			0	7,372,108			1,086	22,116,324
Retrofit	Projects	433	105			4,615	74.050			28,866,840	1 701 710			4,613	115,462,282
Demand Response 3*	Facilities	124	185			52,484	74,056			3,080,737	1,784,712			0	4,865,449
Industrial Program Total						57,098	75,141			31,947,577	9,156,820			5,699	142,444,054
Home Assistance Program		46	5 022				566			20,202	5 442 222	1	T	560	46,402,024
Home Assistance Program	Homes	46	5,033			2	566			39,283	5,442,232			569	16,483,831
Home Assistance Program Total						2	566			39,283	5,442,232			569	16,483,831
Pre-2011 Programs completed in 2011								r					1		
Electricity Retrofit Incentive Program	Projects	2,016	0			21,662	0			121,138,219	0			21,662	484,552,876
High Performance New Construction	Projects	145	69			5,098	3,251			26,185,591	11,901,944			8,349	140,448,197
Toronto Comprehensive	Projects	577	0			15,805	0			86,964,886	0			15,805	347,859,545
Multifamily Energy Efficiency Rebates	Projects	110	0			1,981	0			7,595,683	0			1,981	30,382,733
LDC Custom Programs	Projects	8	0			399	0			1,367,170	0			399	5,468,679
Pre-2011 Programs completed in 2011 Tota	al					44,945	3,251			243,251,550	11,901,944			48,195	1,008,712,030
Other															
Program Enabled Savings	Projects	0	16			0	2,304			0	1,188,362			2,304	3,565,086
Time-of-Use Savings	Homes														
Other Total							2,304				1,188,362			2,304	3,565,086
Adjustments to Previous Year's Verified Re	sults						1,406				18,689,081			1,156	73,918,598
Energy Efficiency Total						136,610	109,191			603,144,419	482,474,435			235,998	3,826,263,564
Demand Response Total (Scenario 1)						79,733	142,670			3,739,185	2,427,011			0	6,166,196
OPA-Contracted LDC Portfolio Total (inc. A	djustments)					216,343	253,267			606,883,604	503,590,526			237,154	3,906,348,358
* Activity & savings for Demand Response resources f		Due to the lim	ited timeframe	of data, whic	h didn't includ	de the summer r	nonths, 2012 IH	ID results have	been deemed			Full OF	B Target:	1,330,000	6,000,000,000
and quarter represent the savings from all active facili		inconclusive.	The IHD line iter	m on the 2012	annual repo	rt will be left bla	nk. Once a full	year of data is a	vailable	% of Full OEB	Target Achieved to		-	17.8%	65.1%
contracted since January 1, 2011.		(2013 evaluati	ion), and the sa	vings are quar	iufiea, 2012 r	esults will be up	uated to reflect	. the quantified	savings.		•		. /-		

Table 6: Province-Wide Initiatives and Program Level Savings by Year

		Table 7: A	djustmen	ts to Pro	vince-W	ide Verified	Results d	lue to Err	ors & Omis	sions (Scenario	1)				
Initiative	Unit	(new prog	ncremental gram activity pecified rep	, y occurrir	-	Net Increr (new peak within th	(kV	V) avings fror	n activity	(new energy	mental Energy S savings from a cified reporting	ctivity with	-	-	Verified Progress to xcludes DR) 2011-2014 Net Cumulative Energy
		2011	2012	2013	2014	2011	2012	2013	2014	2011	2012	2013	2014	Savings (kW) 2014	Savings (kWh) 2014
Consumer Program															
Appliance Retirement	Appliances	0				0				0				0	0
Appliance Exchange	Appliances	0				0				0				0	0
HVAC Incentives	Equipment	-18,866				-5,278				-9,721,817				-5,278	-38,887,267
Conservation Instant Coupon Booklet	Items	8,216				16				275,655				16	1,102,621
Bi-Annual Retailer Event	Items	81,817				108				2,183,391				108	8,733,563
Retailer Co-op	Items	0				0				0				0	0
Residential Demand Response (switch/pstat)*	Devices	0				0				0				0	0
Residential Demand Response (IHD)	Devices	0				0				0				0	0
Residential New Construction	Homes	19				1				13,767				1	55,069
Consumer Program Total						-5,153				-7,249,004				-5,153	-28,996,015
Business Program						-,				, .,					
Retrofit	Projects	303				3,204				16,216,165				3,083	64,398,674
Direct Install Lighting	Projects	444				501				1,250,388				372	4,624,945
Building Commissioning	Buildings	0				0				0				0	0
New Construction	Buildings	12				828				3,520,620				828	14,082,482
Energy Audit	Audits	93				481				2,341,392				481	9,365,567
Small Commercial Demand Response (switch/pstat)*	Devices	0				0				0				0	0
Small Commercial Demand Response (IHD)	Devices	0				0				0				0	0
Demand Response 3*	Facilities	0				0				0				0	0
Business Program Total	rucintico					5,014				23,328,565				4,764	92,471,668
Industrial Program						-,						_		.,	
Process & System Upgrades	Projects	0				0				0				0	0
Monitoring & Targeting	Projects	0				0				0				0	0
Energy Manager	Projects	0				0				0				0	0
Retrofit	Projects	0				0				0				0	0
Demand Response 3*	Facilities	0				0				0				0	0
Industrial Program Total	rucintico					0				0				0	0
Home Assistance Program										-	I				· ·
Home Assistance Program	Homes	0				0				0				0	0
Home Assistance Program Total						0				0				0	0
Pre-2011 Programs completed in 2011												_		-	
Electricity Retrofit Incentive Program	Projects	12				138				545,536		1		138	2,182,145
High Performance New Construction	Projects	34				1,407				2,065,200				1,407	8,260,800
	-	0				0								0	0
Toronto Comprehensive	Projects					-				0					
Multifamily Energy Efficiency Rebates	Projects	0				0				0				0	0
LDC Custom Programs	Projects	0				0				0				0	0
Pre-2011 Programs completed in 2011 Total						1,545				2,610,736				1,545	10,442,945
Other															
Program Enabled Savings	Projects	0				0				0				0	0
Time-of-Use Savings	Homes														
Other Total						0				0				0	0
Adjustments to Previous Year's Verified Results						1,406				18,690,297				1,156	73,918,598
* Activity & savings for Demand Response resources for each ve															

* Activity & savings for Demand Response resources for each year and quarter represent the savings from all active facilities or devices contracted since January 1, 2011.

			Р	eak Dema	and Savings	5						Energy	Savings			
Initiative	Realization Rate				Net-to-Gro	ss 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				0.46				1.00				0.47		
Appliance Exchange		1.00				0.52				1.00				0.52		
HVAC Incentives		1.00				0.50				1.00				0.49		
Conservation Instant Coupon Booklet		1.00				1.00				1.00				1.05		
Bi-Annual Retailer Event		1.00				0.91				1.00				0.92		
Retailer Co-op		n/a				n/a				n/a				n/a		
Residential Demand Response (switch/pstat)*		n/a				n/a				n/a				n/a		
Residential Demand Response (IHD)		n/a				n/a				n/a				n/a		
Residential New Construction		3.65				0.49				7.17				0.49		
Business Program																
Retrofit		0.93				0.75				1.05				0.76		
Direct Install Lighting		0.69				0.94				0.85				0.94		
Building Commissioning		n/a				n/a				n/a				n/a		
New Construction		0.98				0.49				0.99				0.49		
Energy Audit		n/a				n/a				n/a				n/a		
Small Commercial Demand Response (switch/pstat)*		n/a				n/a				n/a				n/a		
Small Commercial Demand Response (IHD)		n/a				n/a				n/a				n/a		
Demand Response 3*		n/a				n/a				n/a				n/a		
Industrial Program																
Process & System Upgrades		n/a				n/a				n/a				n/a		
Monitoring & Targeting		n/a				n/a				n/a				n/a		
Energy Manager		1.16				0.90				1.16				0.90		
Retrofit																
Demand Response 3*		n/a				n/a				n/a				n/a		
Home Assistance Program																
Home Assistance Program		0.32				1.00				0.99				1.00		
Pre-2011 Programs completed in 2011																
Electricity Retrofit Incentive Program		n/a				n/a				n/a				n/a		
High Performance New Construction		1.00				0.50				1.00				0.50		
Toronto Comprehensive		n/a				n/a				n/a				n/a		
Multifamily Energy Efficiency Rebates		n/a				n/a				n/a				n/a		
LDC Custom Programs		n/a				n/a				n/a				n/a		
Other																
Program Enabled Savings		1.06				1.00				2.26				1.00		
Time-of-Use Savings		n/a				n/a				n/a				n/a		

Table 8: Province-Wide Realization Rate & NTG

Summary - Provincial Progress

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

Implementation Period	Annual						
Implementation Period	2011	2012	2013	2014			
2011	216.3	136.6	135.8	129.0			
2012		253.3	109.8	108.2			
2013							
2014							
Ve	237.2						
	1,330						
Verified Pea	Verified Peak Demand Savings Target Achieved - 2011 (%):						

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

Implementation Period		Annual				
Implementation Period	2011	2012	2013	2014	2011-2014	
2011	606.9	603.0	601.0	582.3	2,393	
2012		503.6	498.4	492.6	1,513	
2013						
2014						
	3,906					
2011-2014 Cumulative CDM Energy Target:					6,000	
	65.1%					

*2011 energy adjustments included in cumulative energy savings.

METHODOLOGY

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

	EQUATIONS						
Prescriptive Measures and Projects	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)						
Engineered and Custom Projects	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)						
Demand Response	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)						
Adjustments to Previous Year's Verified Results	All errors and omissions from the prior years Final Annual Results report will be adjusted within this report. Any errors and ommissions with regards to projects counts, data lag, and calculations etc., will be made within this report. Considers the cumulative effect of energy savings.						

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings
Consumer Program			
Appliance	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		Peak demand and energy savings are determined using the verified measure level per
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	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.
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
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.	market (gross) taking into account net-to-gross factors such as free-ridership and spillover (net) at the measure level.
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 OPA 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 saveONenergy CRM 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 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	Savings are considered to begin in the year of the actual project completion date on the iCON CRM system.	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).			
	Additional Note: project counts were derived by filtering out "Application Status" = "Post-Project Submission - Payment denied by LDC" and only including projects with an "Actual Project Completion Date" in 2012 and pulling both the "Application Name" field followed by the "Building Address 1" field from the Post Stage Retrofit Report and finally performing a count of the Building Addresses.					

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; Initiative was not evaluated, no completed projects in 2011 or 2012.	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	
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.	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 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 OPA 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 in the saveONenergy CRM system; Initiative was not evaluated, no completed projects in 2011 or 2012.	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; Initiative was not evaluated, no completed projects in 2011 or 2012.	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; No completed projects in 2011 or 2012.	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
---	---	---	---
Efficiency: Equipment Replacement Incentive (part of the C&I program schedule)	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	Savings are considered to begin in the year of the actual project completion date on the iCON CRM system.	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).
Demand Response 3	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	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.
Home Assistance Pro	ogram		

Initiative	Attributing Savings to LDCs	Savings 'start' Date	Calculating Resource Savings		
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.		
Pre-2011 Programs of	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 or 2012, assumptions as per 2010 evaluation		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		
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 or 2012, assumptions as per 2010 evaluation	Savings are considered to begin in the year in			
Toronto Comprehensive	Program run exclusively in Toronto Hydro- Electric System Limited service territory; Initiative was not evaluated in 2011 or 2012, assumptions as per 2010 evaluation	which a project was completed.	from the 2010 evaluated results (http://www.powerauthority.on.ca/evaluatior measurement-and-verification/evaluation- reports).		

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 or 2012, assumptions as per 2010 evaluation		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
Data Centre Incentive Program	Program run exclusively in PowerStream Inc. service territory; Initiative was not evaluated in 2011, assumptions as per 2009 evaluation		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
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		from the 2010 evaluated results (http://www.powerauthority.on.ca/evaluation- measurement-and-verification/evaluation- reports).

ERII Sector (C&I vs. Industrial Mapping)	
Building Type	Sector
Agribusiness - Cattle Farm	C&I
Agribusiness - Dairy Farm	C&I
Agribusiness - Greenhouse	C&I
Agribusiness - Other	C&I
Agribusiness - Other, Mixed-Use - Office/Retail	C&I
Agribusiness - Other,Office,Retail,Warehouse	C&I
Agribusiness - Other,Office,Warehouse	C&I
Agribusiness - Poultry	C&I
Agribusiness - Poultry, Hospitality - Motel	C&I
Agribusiness - Swine	C&I
Convenience Store	C&I
Education - College / Trade School	C&I
Education - College / Trade School, Multi-Residential - Condominium	C&I
Education - College / Trade School, Multi-Residential - Rental Apartment	C&I
Education - College / Trade School, Retail	C&I
Education - Primary School	C&I
Education - Primary School, Education - Secondary School	C&I
Education - Primary School, Multi-Residential - Rental Apartment	C&I
Education - Primary School, Not-for-Profit	C&I
Education - Secondary School	C&I
Education - University	C&I
Education - University,Office	C&I
Hospital/Healthcare - Clinic	C&I
Hospital/Healthcare - Clinic,Hospital/Healthcare - Long-term Care,Hospital/Healthcare -	<u></u>
Medical Building	C&I
Hospital/Healthcare - Clinic,Industrial	C&I
Hospital/Healthcare - Clinic,Retail	C&I
Hospital/Healthcare - Long-term Care	C&I
Hospital/Healthcare - Long-term Care, Hospital/Healthcare - Medical Building	C&I
Hospital/Healthcare - Medical Building	C&I
Hospital/Healthcare - Medical Building, Mixed-Use - Office/Retail	C&I
Hospital/Healthcare - Medical Building, Mixed-Use - Office/Retail, Office	C&I
Hospitality - Hotel	C&I
Hospitality - Hotel,Restaurant - Dining	C&I
Hospitality - Motel	C&I
Industrial	Industrial
Mixed-Use - Office/Retail	C&I
Mixed-Use - Office/Retail,Industrial	Industrial
Mixed-Use - Office/Retail,Mixed-Use - Other	C&I
Mixed-Use - Office/Retail, Mixed-Use - Other, Not-for-Profit, Warehouse	C&I
Mixed-Use - Office/Retail, Mixed-Use - Residential/Retail	C&I
Mixed-Use - Office/Retail,Office,Restaurant - Dining,Restaurant - Quick Serve,Retail,Warehouse	C&I

Mixed Use Office /Petail Office Warehouse	C&I
Mixed-Use - Office/Retail,Office,Warehouse Mixed-Use - Office/Retail,Retail	
Mixed-Use - Office/Retail, Warehouse	
Mixed-Use - Office/Retail,Warehouse,Industrial	Industrial
Mixed-Use - Other	C&I
Mixed-Use - Other, Industrial	Industrial
Mixed-Use - Other,Not-for-Profit,Office	C&I
Mixed-Use - Other,Office	C&I
Mixed-Use - Other,Other: Please specify	C&I
Mixed-Use - Other,Retail,Warehouse	C&I
Mixed-Use - Other, Warehouse	C&I
Mixed-Use - Residential/Retail	C&I
Mixed-Use - Residential/Retail,Multi-Residential - Condominium	C&I
Mixed-Use - Residential/Retail,Multi-Residential - Rental Apartment	C&I
Mixed-Use - Residential/Retail	C&I
Multi-Residential - Condominium	C&I
Multi-Residential - Condominium, Multi-Residential - Rental Apartment	C&I
Multi-Residential - Condominium, Other: Please specify	C&I
Multi-Residential - Rental Apartment	C&I
Multi-Residential - Rental Apartment, Multi-Residential - Social Housing Provider, Not-for-	C&I
Profit	
Multi-Residential - Rental Apartment, Not-for-Profit	C&I
Multi-Residential - Rental Apartment, Warehouse	C&I
Multi-Residential - Social Housing Provider	C&I
Multi-Residential - Social Housing Provider, Industrial	C&I
Multi-Residential - Social Housing Provider,Not-for-Profit	C&I
Not-for-Profit	C&I
Not-for-Profit,Office	C&I
Not-for-Profit,Other: Please specify	C&I
Not-for-Profit, Warehouse	C&I
Office	C&I
Office,Industrial	Industrial
Office,Other: Please specify	C&I
Office,Other: Please specify,Warehouse	C&I
Office,Restaurant - Dining	C&I
Office,Restaurant - Dining,Industrial	Industrial
Office,Retail	C&I
Office,Retail,Industrial	C&I
Office, Retail, Warehouse	C&I
Office, Warehouse	C&I
Office, Warehouse, Industrial	Industrial
Other: Please specify	C&I
Other: Please specify,Industrial	Industrial
Other: Please specify,Retail	C&I
Other: Please specify, Warehouse	C&I
Restaurant - Dining	C&I
Restaurant - Dining,Retail	C&I

Restaurant - Quick Serve	C&I
Restaurant - Quick Serve, Retail	C&I
Retail	C&I
Retail, Industrial	Industrial
Retail, Warehouse	C&I
Warehouse	C&I
Warehouse, Industrial	Industrial

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 in a given year 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' (please see table 5).

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 (i.e. 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).

Appendix C

Deferral and Variance Accounts Schedule

Updated



Please complete the following continuity schedule for the following Deferral / Variance Accounts. Enter information into green cells only.

If you have received approval to dispose of balances from prior years, the starting point for entries in the 2014 DVA schedule below will be the balance sheet date as per your G/L for which you received approval. For example, if in the 2013 EDR process (CoS or IRM) you received approval for the December 31, 2011 balances, the starting point for your entries below should be the adjustment column BQ for principal and column BV for interest. This will allow for the correct starting point for the 2012 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

oup 1 Accounts ariance Account A - Wholesale Market Service Charge A - Retail Transmission Network Charge - A retail Transmission Connection Charge - Power (excluding Global Adjustment) - Global Adjustment very of Regulatory Asset Balances sition and Recovery/Refund of Regulatory Balances (2009) ⁵ sition and Recovery/Refund of Regulatory Balances (2009) ⁵		2011			
Account Descriptions	Account Number	Closing Principal Balance as of Dec-31-11	Closing Interest Amounts as of Dec-31-11		
Group 1 Accounts					
LV Variance Account	1550				
RSVA - Wholesale Market Service Charge	1580	(8,261,909)	(115,645		
RSVA - Retail Transmission Network Charge	1584	774,015	11,97		
RSVA - Retail Transmission Connection Charge	1586	(279,774)	(17,419		
RSVA - Power (excluding Global Adjustment)	1588	(3,896,805)	(193,776		
RSVA - Global Adjustment	1589	(2,612,754)	27,68		
	1590				
	1595				
	1595				
Disposition and Recovery/Refund of Regulatory Balances (2010) ⁵	1595				
Disposition and Recovery/Refund of Regulatory Balances (2011) ⁵	1595				
Group 1 Sub-Total (including Account 1589 - Global Adjustment)		(14,277,227)	(287,183		
Group 1 Sub-Total (excluding Account 1589 - Global Adjustment)		(11,664,473)	(314,863		
RSVA - Global Adjustment	1589	(2,612,754)	27,680		
Deferred Payments in Lieu of Taxes	1562				
Total of Group 1 and Account 1562		(14,277,227)	(287,183		
· · · · · · · · · · · · · · · · · · ·		(,,,,,,)	,201,100		
Special Purpose Charge Assessment Variance Account ⁴	1521				
LRAM Variance Account ⁶	1568	137,398	92		
Total including Accounts 1562 and 1568		(14,139,829)	(286,262		

For all Board-Approved dispositions, please ensure that the disposition amount has the same sign (e.g. debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related Board decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously Board Approved disposed balances, please provide amounts for adjustments and include supporting documentations. For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record

For KSVA accounts only, report the net variance to the account outing the year. For an onner accounts, tector the transactions during the year. If the LDC's 2013 rate year begins January 1, 2014, the projected interest is recorded from January 1, 2013 to December 31, 2012 bencher 31, 2012 benchers adjusted for the disposed balances approved by the Board in the 2013 rate decision. If the LDC's 2014 rate year begins May 1, 2014 the projected interest is recorded from January 1, 2013 to April 30, 2014 on the December 31, 2012 balance adjusted for the disposed balances approved by the Board in the 2013 rate decision.

Applicants that did not have the balance in Account 1521 cleared by the Board in the 2012 rate proceedings are expected to file to dispose of Account 1521 in the 2013 rate proceedings. No Account 1521 balance is to be filed for clearance in the 2013 rate proceedings for those distributors that had account 1521 cleared by the Board in the 2012 rate proceedings.

In accordance with section 8 of the Special Purpose Charge ("SPC") Regulation, Ontario Regulation 66/10, distributors were required to apply to the Board no later than April 15, 2012 for an order authorizing the distributor to clear the balance in Account 1521. As per the Board's April 23, 2010 letter, the Board stated that it expected that requests for disposition of the balance in Account 1521 were to be addressed as part of the proceedings to set rates for the 2012 rate year, except In access where this approach would result in noncompliance with the timeline set out in section 8 of the SPC Regulation.

Include Account 1595 as part of Group 1 accounts (lines 31, 32, 33 and 34) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.



Please complete the following continuity schedule for the following Deferral / Variance Accounts. Enter information into green cells only.

If you have received approval to dispose of balances from prior years, the starting point for entries in the 2014 DVA schedule below will be the balance sheet date as per your G/L for which you received approval. For example, if in the 2013 EDR process (CoS or IRM) you received approval for the December 31, 2011 balances, the starting point for your entries below should be the adjustment column BQ for principal and column BV for interest. This will allow for the correct starting point for the 2012 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

							201	2						
Account Descriptions	Account Number	Opening Principal Amounts as of Jan-1-12	Transactions Debit / (Credit) during 2012 excluding interest and adjustments 2	Board-Approved Disposition during 2012	Other 1 Adjustments during Q1 2012	Other 1 Adjustments during Q2 2012	Other 1 Adjustments during Q3 2012	s Other 1 Adjustments during Q4 2012	Closing Principal Balance as of Dec-31-12	Opening Interest Amounts as of Jan-1-12	Interest Jan-1 to Dec-31-12	Board-Approved Disposition during 2012	Adjustments during 2012 - other 1	Closing Interest Amounts as of Dec-31-12
Group 1 Accounts														
LV Variance Account	1550	0							0	0				0
RSVA - Wholesale Market Service Charge	1580	(8,261,909)	(4,541,452)	(3,937,692)					(8,865,669)	(115,645)	(118,296)	(531,390)		297,449
RSVA - Retail Transmission Network Charge	1584	774,015	818,948	329,189					1,263,774	11,977	18,431			(184,900)
RSVA - Retail Transmission Connection Charge	1586	(279,774)	563,625	(530,629)					814,480	(17,419)	5,796			75,453
RSVA - Power (excluding Global Adjustment)	1588	(3,896,805)	(1,067,614)	(947,934)					(4,016,485)	(193,776)	(67,780)			574,793
RSVA - Global Adjustment	1589	(2,612,754)	3,829,924	(1,275,974)					2,493,144	27,680	53,534	(40,192)		121,406
Recovery of Regulatory Asset Balances	1590	0							0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2008)5	1595	0							0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2009) ⁵	1595	0							0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2010) ⁵	1595	0							0	0				0
Disposition and Recovery/Refund of Regulatory Balances (2011) ⁵	1595	0							0	0				0
Group 1 Sub-Total (including Account 1589 - Global Adjustment)		(14,277,227)	(396,569)	(6,363,040)	c	c) () 0	(8,310,756)	(287,183)	(108,315)	(1,279,699)	(0 884,201
Group 1 Sub-Total (excluding Account 1589 - Global Adjustment)		(11,664,473)	(4,226,493)	(5,087,066)	C	C) 0		(314,863)	(161,849)	(1,239,507)	(0 762,795
RSVA - Global Adjustment	1589	(2,612,754)	3,829,924	(1,275,974)	C	C) (0 0	2,493,144	27,680	53,534	(40,192)	(0 121,406
Deferred Payments in Lieu of Taxes	1562	0							0	0				
Deletted Payments in Lieu of Taxes	1302	0							0	0				0
Total of Group 1 and Account 1562		(14,277,227)	(396,569)	(6,363,040)	C	C) () 0	(8,310,756)	(287,183)	(108,315)	(1,279,699)	(0 884,201
Special Purpose Charge Assessment Variance Account ⁴	1521													
LRAM Variance Account ⁶	1568	137,398	220,680						358,078	921	3,503			4,424
Total including Accounts 1562 and 1568		(14,139,829)	(175,889)	(6,363,040)	C	C) (0 0	(7,952,678)	(286,262)	(104,812)	(1,279,699)	(0 888,625

For all Board-Approved dispositions, please ensure that the disposition amount has the same sign (e.g. debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related Board decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously Board Approved disposed balances, please provide amounts for adjustments and include supporting documentations. For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record

For KSVA accounts only, report the net variance to the account outing the year. For an onner accounts, tector the transactions during the year. If the LDC's 2013 rate year begins January 1, 2014, the projected interest is recorded from January 1, 2013 to December 31, 2012 bencher 31, 2012 benchers adjusted for the disposed balances approved by the Board in the 2013 rate decision. If the LDC's 2014 rate year begins May 1, 2014 the projected interest is recorded from January 1, 2013 to April 30, 2014 on the December 31, 2012 balance adjusted for the disposed balances approved by the Board in the 2013 rate decision.

Applicants that did not have the balance in Account 1521 cleared by the Board in the 2012 rate proceedings are expected to file to dispose of Account 1521 in the 2013 rate proceedings. No Account 1521 balance is to be filed for clearance in the 2013 rate proceedings for those distributors that had account 1521 cleared by the Board in the 2012 rate proceedings.

In accordance with section 8 of the Special Purpose Charge ("SPC") Regulation, Ontario Regulation 66/10, distributors were required to apply to the Board no later than April 15, 2012 for an order authorizing the distributor to clear the balance in Account 1521. As per the Board's April 23, 2010 letter, the Board stated that it expected that requests for disposition of the balance in Account 1521 were to be addressed as part of the proceedings to set rates for the 2012 rate year, except In access where this approach would result in noncompliance with the timeline set out in section 8 of the SPC Regulation.

Include Account 1595 as part of Group 1 accounts (lines 31, 32, 33 and 34) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.



Please complete the following continuity schedule for the following Deferral / Variance Accounts. Enter information into green cells only.

If you have received approval to dispose of balances from prior years, the starting point for entries in the 2014 DVA schedule below will be the balance sheet date as per your G/L for which you received approval. For example, if in the 2013 EDR process (CoS or IRM) you received approval for the December 31, 2011 balances, the starting point for your entries below should be the adjustment column BQ for principal and column BV for interest. This will allow for the correct starting point for the 2012 opening balance columns for both principal and interest.

Please refer to the footnotes for further instructions.

		20	013		Projected Int	erest on Dec-31-1	2 Balances	2.1.7 RRR		
Account Descriptions	Account Number	Principal Disposition during 2013 - instructed by Board	Interest Disposition during 2013 - instructed by Board	Closing Principal Balances as of Dec 31-12 Adjusted for Dispositions during 2013	Closing Interest Balances as of Dec 31-12 Adjusted for Dispositions during 2013	Projected Interest from Jan 1, 2013 to December 31, 2013 on Dec 31 -12 balance adjusted for disposition during 2013 ³	Projected Interest from January 1, 2013 to April 30, 2013 on Dec 31 - 12 balance adjusted for disposition during 2013 ³	Total Claim	As of Dec 31-12	Variance RRR vs. 2012 Balance (Principal + Interest)
Group 1 Accounts										
LV Variance Account	1550			0	0	0		C		0
RSVA - Wholesale Market Service Charge	1580	(4,324,217)	331,281	(4,541,452)	(33,832)	(66,759)	(21,948)	(4,663,991)	(8,568,220)	(0)
RSVA - Retail Transmission Network Charge	1584	444,826	(194,642)	818,948	9,742	12,039	3,958	844,686	1,078,874	
RSVA - Retail Transmission Connection Charge	1586	250,855	74,557	563,625	896	8,285	2,724	575,531	889,933	8 (0)
RSVA - Power (excluding Global Adjustment)	1588	(4,016,485)	555,382	0	19,411	0		19,411	(3,441,692)) 0
RSVA - Global Adjustment	1589	2,493,144	133,455	0	(12,049)	0		(12,049)	2,614,550	0
Recovery of Regulatory Asset Balances	1590			0	0	0		C		0
Disposition and Recovery/Refund of Regulatory Balances (2008)	1595			0	0	0		C		0
Disposition and Recovery/Refund of Regulatory Balances (2009)5	1595			0	0	0		C		0
Disposition and Recovery/Refund of Regulatory Balances (2010) ⁵	1595			0	0	0		C		0
Disposition and Recovery/Refund of Regulatory Balances (2011) ⁵	1595			0	0	0		C		0
Group 1 Sub-Total (including Account 1589 - Global Adjustment) Group 1 Sub-Total (excluding Account 1589 - Global Adjustment) RSVA - Global Adjustment	1589	(5,151,877) (7,645,021) 2,493,144	900,033 766,578 133,455	(3,158,879) (3,158,879) 0	(15,832) (3,783) (12,049)	(46,436) (46,436) 0	(15,266) (15,266) 0	(3,236,413) (3,224,364) (12,049)	(7,426,555) (10,041,105) 2,614,550) (0)
Deferred Payments in Lieu of Taxes	1562			0	0	0	0	C		0
Total of Group 1 and Account 1562		(5,151,877)	900,033	(3,158,879)	(15,832)	(46,436)	(15,266)	(3,236,413)	(7,426,555)	0 (0)
Special Purpose Charge Assessment Variance Account ⁴	1521	[
LRAM Variance Account ⁶	1568	173,939	2,152	184,139	2,272	2,707	890	190,008		(362,502)
Total including Accounts 1562 and 1568		(4,977,938)	902,185	(2,974,740)	(13,560)	(43,729)	(14,377)	(3,046,405)	(7,426,555)	(362,502)

For all Board-Approved dispositions, please ensure that the disposition amount has the same sign (e.g. debit balances are to have a positive figure and credit balance are to have a negative figure) as per the related Board decision.

Please provide explanations for the nature of the adjustments. If the adjustment relates to previously Board Approved disposed balances, please provide amounts for adjustments and include supporting documentations. For RSVA accounts only, report the net variance to the account during the year. For all other accounts, record

For KSVA accounts only, report the net variance to the account outing the year. For an onner accounts, tector the transactions during the year. If the LDC's 2013 rate year begins January 1, 2014, the projected interest is recorded from January 1, 2013 to December 31, 2012 bencher 31, 2012 benchers adjusted for the disposed balances approved by the Board in the 2013 rate decision. If the LDC's 2014 rate year begins May 1, 2014 the projected interest is recorded from January 1, 2013 to April 30, 2014 on the December 31, 2012 balance adjusted for the disposed balances approved by the Board in the 2013 rate decision.

Applicants that did not have the balance in Account 1521 cleared by the Board in the 2012 rate proceedings are expected to file to dispose of Account 1521 in the 2013 rate proceedings. No Account 1521 balance is to be filed for clearance in the 2013 rate proceedings for those distributors that had account 1521 cleared by the Board in the 2012 rate proceedings.

In accordance with section 8 of the Special Purpose Charge ("SPC") Regulation, Ontario Regulation 66/10, distributors were required to apply to the Board no later than April 15, 2012 for an order authorizing the distributor to clear the balance in Account 1521. As per the Board's April 23, 2010 letter, the Board stated that it expected that requests for disposition of the balance in Account 1521 were to be addressed as part of the proceedings to set rates for the 2012 rate year, except In access where this approach would result in noncompliance with the timeline set out in section 8 of the SPC Regulation.

Include Account 1595 as part of Group 1 accounts (lines 31, 32, 33 and 34) for review and disposition if the recovery (or refund) period has been completed. If the recovery (or refund) period has not been completed, do not include the respective balance in Account 1595 for disposition at this time.