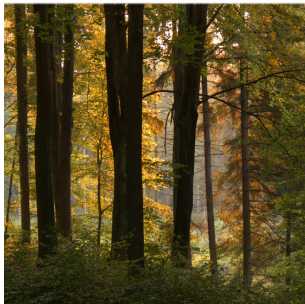


Brant County Power 2011-2014 LRAMVA



Brant County Power lost revenue related to Conservation and Demand Management

2011-2014



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IndEco report B5038

5 October 2015

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Introduction

The Lost Revenue Adjustment Mechanism (LRAM) was developed to remove a disincentive to electricity local distribution companies (LDCs) may have to promote conservation and demand management (CDM) programs. CDM programs are designed to provide energy savings and peak demand reductions for the customers of LDCs, which directly impacts the LDC's revenue. The LRAM allows LDCs to be compensated for lost revenue that may have resulted from CDM programs the LDC offered to its customers.

For the 2011-2014 CDM period, the Ontario Energy Board (OEB) has authorized LDCs to establish an LRAM variance account (LRAMVA) to capture the impact of CDM programs on the revenue of LDCs. The variance in the LRAMVA is between the lost revenue due to independently verified load impacts of CDM and the lost revenue from any CDM impacts an LDC included in the LDC's load forecast.¹

Brant County Power contracted with the Ontario Power Authority (OPA, which has now been merged into the Independent Electricity System Operator) to offer a suite of CDM programs to customers in a variety of rate classes for the 2011-2014 period. Appendix A of the CDM Guidelines shows that LDCs are entitled to claim lost revenues from 2014 programs and persisting losses from 2011–2013 programs in 2014 as part of their 2016 rate applications.

Brant County Power has not submitted a claim for lost revenues from 2011–2014 CDM programs. This report determines the variance account balance for the following revenue losses:

- Lost revenues in 2011 related to programs offered in 2011,
- Lost revenues in 2012 related to programs offered in 2011,
- Lost revenues in 2012 related to programs offered in 2012,
- Lost revenues in 2013 related to programs offered in 2011,
- Lost revenues in 2013 related to programs offered in 2012,
- Lost revenues in 2013 related to programs offered in 2013,
- Lost revenues in 2014 related to programs offered in 2011,
- Lost revenues in 2014 related to programs offered in 2012,
- Lost revenues in 2014 related to programs offered in 2013, and
- Lost revenues in 2014 related to programs offered in 2014.

The carrying charges on the above lost revenues through April 2016 are also reported.

¹ *Guidelines for Electricity Distributor Conservation and Demand Management*. Ontario Energy Board. April 26, 2012 (EB-2012-0003).

Methodology

In principle, the determination of lost revenues is a simple calculation:

$$LR = (\text{CDM results} - \text{CDM results in the load forecast}) * \text{rate}$$

In practice, it is somewhat more complicated than that because of the limitations of the information available to calculate CDM results, the different time periods of results data and the rate year, and the need to determine carrying charges on the lost revenues.

CDM results

From 2011 through 2014, Brant County Power offered provincial programs in partnership with the Independent Electricity System Operator (IESO). Brant County Power did not offer custom programs beyond the IESO programs.

IESO evaluation results

The IESO performs evaluations of all of its programs, which examine gross energy savings from the programs, and the net-to-gross ratio (NTGR), and then from those calculates net energy savings by initiative within program group (residential, business, industrial and low-income). Peak load reductions are also calculated, and reported in the same way.

Provincial results are allocated to individual LDCs based on each LDC's individual performance where possible, or through an allocation process.

The IESO reports energy savings and peak demand reductions, by initiative in the current year, adjustments to the previous year, based on updated validation, and contribution to total savings or reductions to the end of the 2011 to 2014 period. The savings and demand reductions for a particular year for a number of programs persist in the following years up to and including 2014. The savings and demand reductions for demand response programs do not persist beyond the year in which those particular savings and demand reductions occur.

For some programs, savings or demand reductions in a particular year persist into subsequent years, but do not persist fully through 2014. In these cases, the IESO was requested to provide estimates by year of the persistence of savings or reductions in each year.

These are the best, most definitive and defensible estimates of results associated with these programs, and incorporate the most appropriate estimates of results from the measures installed.

However, these data have some limitations, and require some adjustments for use in lost revenue calculations.

Allocating results to rate classes

The IESO reports results by ‘program’, within four main programs: residential, business, industrial and low-income. These only partially map onto rate classes. For initiatives that apply to more than one rate class, Brant County Power staff estimated the split by rate class, drawing on participant-specific information where available.

Application of Reported Results

As previously mentioned, the IESO reports both energy savings and reductions in demand. Depending on the rate class, distribution revenue is based on either kilowatt-hours used, or the customer’s monthly peak kilowatt use. For rate classes where the customer is charged for distribution by energy use (kWh), the IESO reported energy savings are used to calculate lost revenues related to CDM results.

For customer classes where the LDC charges for distribution based on the customer’s peak monthly demand (kW), the demand reductions in the IESO report may not be realized in every month. For initiatives like lighting upgrades in businesses operating during normal business hours the demand savings are likely to be maintained throughout the year, including during the customer’s monthly peaks. In the case of demand response programs, in particular Demand Response 3 (DR3), the demand reduction may only apply to certain months in the year. These considerations have been factored into the lost revenue calculations.

There have been arguments advanced around the uncertainty regarding the impact of DR3 program results on LDC revenues. However, the OEB has considered these arguments and has been consistent in recent rate cases in ruling that the IESO’s analyses with respect to CDM results may be used to estimate lost revenues, including those related to DR3 programs.²

Load reductions accounted for in the load forecast

In recent years, LDCs have tried to account for load losses due to CDM programs in their load forecasts, submitted as part of their Cost of Service applications. These forecasted reductions need to be deducted from load losses attributable to CDM programs, to determine the final impact of CDM on revenues. That is, the impact is the *variance* between the results accounted for in the load forecast and the results attributable to the programs.

Overall impact of CDM on load, by rate class

The overall impact of CDM energy savings and demand reductions on load is calculated from the IESO energy savings and peak demand reductions, allocated by rate class. Finally the difference is calculated between the overall estimated impact on loads and the load reductions

² See PowerStream 2014 rate decision, EB-2014-0108, pp. 5-6.

attributable to CDM that were captured in the most recent load forecast.

Distribution rates

Revenue impacts to the LDC associated with CDM are calculated using the distribution volumetric rate. Most other rate components (e.g. service charges, global adjustment, transmission charges) are either fixed charges, or are just pass-throughs for the utility, so do not affect the LDC's revenues. An exception is for certain rate riders related to taxes, and these are added to the distribution volumetric rates for lost revenue calculations, where applicable.

For most electricity distribution utilities in Ontario, including Brant County Power, distribution rates are set for the period from 1 May to 30 April of the next year. CDM results are reported for the calendar year, so average rates for the calendar year need to be calculated. For simplicity, the average rate is estimated based on the rate being four twelfths of the previous year's rate (for January through April), and eight twelfths of the current year's rate (for May through December).

Lost revenues variance

Lost revenues in a particular rate class are the product of the savings or demand reductions in that class, less what was accounted for in the load forecast, multiplied by the average rate for that class in the calendar year for which the energy savings or demand reductions were reported.³ The variance is the difference between these lost revenues and the quantity of CDM in the load forecast.

Because these revenues are lost throughout the year, and are only recovered through rate riders in subsequent years, the Ontario Energy Board has permitted the LDCs to claim carrying charges on these lost revenues at a rate prescribed by the OEB, and published on the Board's website. The carrying charges are simple interest, not compounded and are calculated on the monthly lost revenue balance. Because the IESO final results estimates are reported annually, and monthly estimates are not available, the incremental results are assumed to be equally distributed across the months. So 1/12 of the annual results are allocated to each month of the year.

Carrying charges accrue from the time of the results, until disposition.

These lost revenues are reported by the LDC in its financial statements in Account 1568, and the associated rate class-specific sub-accounts.

³ Where distribution rates are monthly rates for the peak kW in that month, the annual loss of revenue is the monthly rate times the number of months it applies to – usually twelve.

Results

Following the methodology described above, lost revenues were calculated for Brant County Power.

CDM results

IESO evaluation results

CDM results reported by the IESO are in Appendix A. The Appendix consists of the following tables:

- The verified final 2011, 2012, 2013, and 2014 results for Brant County Power are shown in Table 1; and
- The adjustments to verified final 2011, 2012, and 2013 results for Brant County Power are shown in Table 2.⁴

The gross results were provided by the IESO, but are not included in this report, as only net results are relevant for the purposes of estimating lost revenues.

Table A-1 in Appendix A shows the estimated persistence of 2011 results into future years. Table A-2 in Appendix A shows the persistence of 2012 results into future years. Table A-3 in Appendix A shows the persistence of 2013 results through 2014. Table A-4 in Appendix A shows the persistence of 2011 adjustments into future years. Table A-5 in Appendix A shows the persistence of 2012 adjustments into future years. Table A-6 in Appendix A shows the persistence of 2013 adjustments through 2014. The Independent Electricity System Operator (IESO) has indicated that there will not be adjustments to 2014 results in future years.

The IESO has provided Brant County Power with persistence data for 2012-2014 results and 2011-2013 adjustments. Because persistence of 2011 results was not available from the IESO, it was estimated based on net incremental and program-to-date contributions to 2014 targets reported by the IESO. Some program results do not persist into future years and others persist equally into future years. For programs that have persistence into future years and persistence is not equal to the saving in the first year, the savings are assumed to persist until the end of 2013 and any drop in persistence is assumed to occur in 2014. This approach is consistent with observations of the persistence of 2011 results for other distributors that received persistence data from the IESO.

Persistence values for some programs were missing for the 2013 adjustments. The missing values were estimated by applying the persistence decline rate for the same program during the same year. If

⁴ *Verified 2011-2014 Final Results Report for Brant County Power Inc.. Independent Electricity System Operator. September 1, 2015.*

the persistence values for the same program during that year were unavailable, the persistence decline rate of the same program from a different year was used instead. Thus, the persistence of 2013 adjustments into 2014 was estimated by multiplying the 2013 adjustment by the persistence decline rate of 2013 results for the same program into 2014.

Allocating results to rate classes

Brant County Power provided information on the allocation of results to rate classes. In most cases, the allocation is straightforward. Initiatives that can span multiple rate classes include Retrofit, Building Commissioning, New Construction, Energy Audit, Demand Response 3, Process & Systems Upgrades, Monitoring & Targeting, Energy Manager, Electricity Retrofit Incentive Program and High Performance New Construction. No allocation was provided for programs for which Brant County Power has no program results.

Brant County Power bills customers in different rate classes using different volumetric units, either kilowatt hours (kWh), or customer peak monthly kilowatts (kW). The rate classes (and billing units) for Brant County Power are:

- Residential (kWh)
- GS <50 kW(kWh)
- GS 50 to 4999 kW (kW)
- Large User (GS > 5,000 kW) (kW)
- Unmetered Scattered Load (kWh)
- Sentinel Lighting (kW)
- Street Lighting (kW)
- Microfit generator (NA).

Table B-1 in Appendix B shows the percentage allocation by rate class for 2011 results and adjustments. Table B-2 in Appendix B shows the percentage allocation by rate class for 2012 results and adjustments. Table B-3 in Appendix B shows the percentage allocation by rate class for 2013 results and adjustments. Table B-4 in Appendix B shows the percentage allocation by rate class for 2014 results.

Load reductions accounted for in the load forecast

Brant County Power's last cost of service application was filed for the 2011 rate year. The load forecast associated with that application did not account for load losses from 2011 – 2014 CDM programs.

Overall impact of CDM on load, by rate class

Multiplying the adjusted energy savings or demand reduction reported for Brant County Power for each program by the allocation by rate class provides the impact on load of that CDM program within the

appropriate rate class. The sum of the energy savings and demand reductions for all of the programs for each rate class provides the overall impact of CDM on load by rate class. The overall load impact for each calendar year includes the results for the CDM programs in that year, any adjustments to the results, and the persistence of the results and adjustments from previous years into that calendar year.

Table B-5 in Appendix B shows the overall impact of CDM on load, by rate class for 2011. This includes the 2011 CDM program results and adjustments to the 2011 results allocated by rate class.

Table B-6 in Appendix B shows the overall impact of CDM on load, by rate class for 2012. This includes the 2012 CDM program results and adjustments to the 2012 results plus the persistence of the 2011 program results and adjustments in 2012 allocated by rate class.

Table B-7 in Appendix B shows the overall impact of CDM on load, by rate class for 2013. This includes the 2013 CDM program results and adjustments to the 2013 results plus the persistence of the 2011 and 2012 program results and adjustments in 2013 allocated by rate class.

Table B-8 in Appendix B shows the overall impact of CDM on load, by rate class for 2014. This includes the 2014 CDM program results plus the persistence of the 2011 to 2013 program results and adjustments in 2014 allocated by rate class.

Distribution rates

The distribution rates that are used to calculate the CDM impact on distributor revenue for each rate class for Brant County Power are shown in Table C-1 in Appendix C. The distribution rates for the period from 1 May of each year to 30 April of the next year are pro-rated by number of months to each calendar year in the 2011 to 2014 time period.

Lost revenues

The lost revenues for each year by rate class for Brant County Power calculated from final CDM program results are shown in Table C-2 in Appendix C. The lost revenue for each year is based on the load impact for each rate class in that year multiplied by the rate for that rate class in that year.

The lost revenue for 2011-2014 is based on final verified results provided by the IESO.

Carrying charges

The monthly carrying charges by rate class on Brant County Power's lost revenue variance are shown on Table C-3 in Appendix C. The carrying charges are reported monthly, from the time the lost revenues resulted, through to April 30, 2016.

Conclusions

The LRAMVA balance at the end of December 2014 for Brant County Power that includes results from 2011 to 2014 CDM programs and adjustments to 2011 to 2013 results is \$159,854.88. The total carrying charges on this LRAMVA balance accumulated to April 30, 2016 are \$5,506.97. These balances are attributable to individual rate classes according to the following table:

Rate class	LRAMVA	Carrying charges	Total
Residential	\$55,641.91	\$2,050.37	\$57,692.28
GS < 50 kW	\$75,066.84	\$2,442.42	\$77,509.25
GS 50 to 4999 kW	\$29,146.14	\$1,014.19	\$30,160.33
Totals	\$159,854.88	\$5,506.97	\$165,361.86

NOTE: There is no LRAMVA or carrying charge associated with rate classes not included in this table.

Appendix A.CDM results reported by the IESO

Table 1: Brant County Power Inc. Initiative and Program Level Net Savings by Year

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)			
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)		
																2014	2014
Consumer Program																	
Appliance Retirement	Appliances	138	153	99	87	8	9	6	6	54,690	58,541	42,627	38,102	28	517,234		
Appliance Exchange	Appliances	2	21	21	12	0	3	4	2	266	5,111	7,758	4,433	10	36,194		
HVAC Incentives	Equipment	222	236	201	238	80	52	40	48	147,245	89,611	68,561	88,545	219	1,083,482		
Conservation Instant Coupon Booklet	Items	1,028	61	688	2,221	2	0	1	4	38,137	2,766	15,250	60,073	8	251,421		
Bi-Annual Retailer Event	Items	1,884	2,099	1,869	9,546	3	3	2	16	58,144	52,988	33,991	243,165	25	702,685		
Retailer Co-op	Items	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Residential Demand Response	Devices	35	0	86	196	20	0	39	71	0	0	62	0	71	62		
Residential Demand Response (IHD)	Devices	0	0	86	193	0	0	0	0	0	0	0	0	0	0		
Residential New Construction	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Consumer Program Total						113	67	94	147	298,482	209,019	168,248	434,320	361	2,591,078		
Business Program																	
Retrofit	Projects	1	17	13	26	0	130	30	205	0	793,415	212,433	957,243	354	3,709,787		
Direct Install Lighting	Projects	3	113	28	16	4	96	56	13	9,616	351,227	138,488	49,244	168	1,412,885		
Building Commissioning	Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
New Construction	Buildings	0	0	3	3	0	0	20	104	0	0	109,754	622,463	124	841,970		
Energy Audit	Audits	2	1	0	2	0	5	0	27	0	25,176	0	130,547	32	206,076		
Small Commercial Demand Response	Devices	0	0	2	2	0	0	1	1	0	0	2	0	1	2		
Small Commercial Demand Response (IHD)	Devices	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Demand Response 3	Facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Business Program Total						4	231	107	350	9,616	1,169,818	460,677	1,759,497	678	6,170,720		
Industrial Program																	
Process & System Upgrades	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Energy Manager	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Retrofit	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Demand Response 3	Facilities	3	2	1	3	217	92	45	449	12,763	2,209	1,019	0	449	15,991		
Industrial Program Total						217	92	45	449	12,763	2,209	1,019	0	449	15,991		
Home Assistance Program																	
Home Assistance Program	Homes	0	27	36	32	0	2	1	2	0	20,019	14,155	21,214	5	109,463		
Home Assistance Program Total						0	2	1	2	0	20,019	14,155	21,214	5	109,463		
Aboriginal Program																	
Home Assistance Program	Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Direct Install Lighting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Aboriginal Program Total						0	0	0	0	0	0	0	0	0	0		
Pre-2011 Programs completed in 2011																	
Electricity Retrofit Incentive Program	Projects	0	0	0	0	16	0	0	0	93,507	0	0	0	16	374,030		
High Performance New Construction	Projects	0	0	0	0	0	0	0	0	841	217	0	0	0	4,012		
Toronto Comprehensive	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Multifamily Energy Efficiency Rebates	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
LDC Custom Programs	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pre-2011 Programs completed in 2011 Total						16	0	0	0	94,348	217	0	0	16	378,042		
Other																	
Program Enabled Savings	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Time-of-Use Savings	Homes	0	0	0	n/a	0	0	0	136	0	0	0	0	136	0		
LDC Pilots	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Total						0	0	0	136	0	0	0	0	136	0		
Adjustments to 2011 Verified Results						-11				0	1	12,907	0	-10	59,870		
Adjustments to 2012 Verified Results										3	0		6,512	3	23,752		
Adjustments to 2013 Verified Results											3			3	12,958		
Energy Efficiency Total						114	300	161	563	402,446	1,399,073	643,015	2,215,032	1,125	9,249,239		
Demand Response Total (Scenario 1)						237	92	85	521	12,763	2,209	1,083	0	521	16,055		
Adjustments to Previous Years' Verified Results Total						0	-11	3	4	0	12,907	6,512	9,931	-4	96,580		
OPA-Contracted LDC Portfolio Total (inc. Adjustments)						351	381	249	1,088	415,209	1,414,189	650,610	2,224,963	1,642	9,361,874		
Activity and savings for Demand Response resources for each year represent the savings from all active facilities or devices contracted since January 1, 2011 (reported cumulatively).												Full OEB Target:				3,300	9,850,000
*Includes adjustments after Final Reports were issued												% of Full OEB Target Achieved to Date (Scenario 1):				49.7%	95.0%
Results presented using scenario 1 which assumes that demand response resources have a persistence of 1 year																	

Table 2: Adjustments to Brant County Power Inc. Net Verified Results due to Variances

Initiative	Unit	Incremental Activity (new program activity occurring within the specified reporting period)				Net Incremental Peak Demand Savings (kW) (new peak demand savings from activity within the specified reporting period)				Net Incremental Energy Savings (kWh) (new energy savings from activity within the specified reporting period)				Program-to-Date Verified Progress to Target (excludes DR)	
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014 Net Annual Peak Demand Savings (kW)	2011-2014 Net Cumulative Energy Savings (kWh)
														2014	2014
Consumer Program															
Appliance Retirement	Appliances	0	0	0		0	0	0		0	0	0		0	0
Appliance Exchange	Appliances	0	0	0		0	0	0		0	0	0		0	0
HVAC Incentives	Equipment	-67	11	11		-18	2	2		-33,585	3,879	3,962		-14	-114,780
Conservation Instant Coupon Booklet	Items	16	0	2		0	0	0		545	0	47		0	2,276
Bi-Annual Retailer Event	Items	162	0	0		0	0	0		4,320	0	0		0	17,280
Retailer Co-op	Items	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Residential New Construction	Homes	0	0	0		0	0	0		0	0	0		0	0
Consumer Program Total						-18	2	2		-28,720	3,879	4,009		-14	-95,225
Business Program															
Retrofit	Projects	1	3	0		2	1	0		17,289	3,184	0		3	78,710
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
Building Commissioning	Buildings	0	0	0		0	0	0		0	0	0		0	0
New Construction	Buildings	0	0	0		0	0	0		0	0	0		0	0
Energy Audit	Audits	1	0	0		5	0	0		26,398	854	0		6	108,155
Small Commercial Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
Small Commercial Demand Response (IHD)	Devices	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Business Program Total						8	1	0		43,688	4,038	0		9	186,865
Industrial Program															
Process & System Upgrades	Projects	0	0	0		0	0	0		0	0	0		0	0
Monitoring & Targeting	Projects	0	0	0		0	0	0		0	0	0		0	0
Energy Manager	Projects	0	0	0		0	0	0		0	0	0		0	0
Retrofit	Projects	0	0	0		0	0	0		0	0	0		0	0
Demand Response 3	Facilities	0	0	0		0	0	0		0	0	0		0	0
Industrial Program Total						0	0	0		0	0	0		0	0
Home Assistance Program															
Home Assistance Program	Homes	0	0	1		0	0	0		0	0	2,483		0	4,940
Home Assistance Program Total						0	0	0		0	0	2,483		0	4,940
Aboriginal Program															
Home Assistance Program	Homes	0	0	0		0	0	0		0	0	0		0	0
Direct Install Lighting	Projects	0	0	0		0	0	0		0	0	0		0	0
Aboriginal Program Total						0	0	0		0	0	0		0	0
Pre-2011 Programs completed in 2011															
Electricity Retrofit Incentive Program	Projects	0	0	0		0	0	0		0	0	0		0	0
High Performance New Construction	Projects	0	0	0		0	0	0		0	0	0		0	0
Toronto Comprehensive	Projects	0	0	0		0	0	0		0	0	0		0	0
Multifamily Energy Efficiency Rebates	Projects	0	0	0		0	0	0		0	0	0		0	0
LDC Custom Programs	Projects	0	0	0		0	0	0		0	0	0		0	0
Pre-2011 Programs completed in 2011 Total						0	0	0		0	0	0		0	0
Other															
Program Enabled Savings	Projects	0	0	0		0	0	0		0	0	0		0	0
Time-of-Use Savings	Homes	0	0	0		0	0	0		0	0	0		0	0
LDC Pilots	Projects	0	0	0		0	0	0		0	0	0		0	0
Other Total						0	0	0		0	0	0		0	0
Adjustments to 2011 Verified Results						-10				14,968				-10	59,870
Adjustments to 2012 Verified Results							3				7,917			3	23,752
Adjustments to 2013 Verified Results								3				6,492		3	12,958
Total Adjustments to Previous Years' Verified Results						-10	3	3		14,968	7,917	6,492		-4	96,580

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

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

Table A-1: Estimated persistence of 2011 results into future years for Brant County Power

	CDM impact on 2011 load				Persistence of 2011 results			
	2011		2012		2013		2014	
	Peak Demand Savings (kW)	Energy Savings (kWh)	Peak Demand Savings (kW)	Energy Savings (kWh)	Peak Demand Savings (kW)	Energy Savings (kWh)	Peak Demand Savings (kW)	Energy Savings (kWh)
Consumer Program								
Appliance Retirement	8	54,690	8	54,690	8	54,690	7	54,185
Appliance Exchange	0	266	0	266	0	266	0	113
HVAC Incentives	80	147,245	80	147,245	80	147,245	80	147,245
Conservation Instant Coupon Booklet	2	38,137	2	38,137	2	38,137	2	38,137
Bi-Annual Retailer Event	3	58,144	3	58,144	3	58,144	3	58,144
Retailer Co-op Residential Demand Response	20							
Residential New Construction								
Business Program								
Retrofit								
Direct Install Lighting Building Commissioning	4	9,616	4	9,616	4	9,616	4	9,616
New Construction								
Energy Audit								
Small Commercial Demand Response								
Demand Response 3								
Industrial Program								
Process & System Upgrades								
Monitoring & Targeting								
Energy Manager								
Retrofit								
Demand Response 3	217	12,763						
Home Assistance Program								
Home Assistance Program								
Pre-2011 Programs completed in 2011								
Electricity Retrofit Incentive Program	16	93,507	16	93,507	16	93,507	16	93,507
High Performance New Construction	0	841	0	841	0	841	0	841
Totals	351	415,209	114	402,446	114	402,446	113	401,788

Note: Persistence of results was not available from the IESO. Persistence is based on net incremental and program-to-date contributions to 2014 targets reported by the IESO. Some program results do not persist into future years and others persist equally into future years. For programs that have persistence into future years and persistence is not equal to the saving in the first year, the savings are assumed to persist until the end of 2013 and any drop in persistence is assumed to occur in 2014.

Table A-2: Estimated persistence of 2012 results into future years for Brant County Power

	CDM impact on 2012 load		Persistence of 2012 results			
	2012		2013		2014	
	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)
Consumer Program						
Appliance Retirement	9	58,541	9	58,541	9	58,541
Appliance Exchange	3	5,111	3	5,111	3	5,111
HVAC Incentives	52	89,611	52	89,611	52	89,611
Conservation Instant Coupon Booklet	0	2,766	0	2,766	0	2,766
Bi-Annual Retailer Event	3	52,988	3	52,988	3	52,988
Retailer Co-Op Residential Demand Response (switch/pstat)						
Residential Demand Response (IHD)						
Residential New Construction						
Business Program						
Retrofit	130	793,415	125	777,516	118	756,746
Direct Install Lighting Building Commissioning	96	351,227	96	351,227	95	345,747
New Construction Energy Audit	5	25,176	5	25,176	5	25,176
Small Commercial Demand Response (switch/pstat)						
Small Commercial Demand Response (IHD)						
Demand Response 3						
Industrial Program						
Process & System Upgrades						
Monitoring & Targeting						
Energy Manager						
Retrofit						
Demand Response 3	92	2,209				
Home Assistance Program						
Home Assistance Program	2	20,019	1	18,919	1	18,919
Pre-2011 Programs completed in 2011						
Electricity Retrofit Incentive Program						
High Performance New Construction	0	217	0	217	0	217
Totals	391	1,401,282	295	1,382,074	287	1,355,824

Note: Persistence of results is as reported by the IESO.

Table A-3: Estimated persistence of 2013 results into future years for Brant County Power

	CDM impact on 2013 load		Persistence of 2013 results	
	2013		2014	
	Demand Savings (kW)	Incremental Energy Savings (kWh)	Demand Savings (kW)	Incremental Energy Savings (kWh)
Consumer Program				
Appliance Retirement	6	42,627	6	42,627
Appliance Exchange	4	7,758	4	7,758
HVAC Incentives	40	68,561	40	68,561
Conservation Instant Coupon Booklet	1	15,250	1	15,250
Bi-Annual Retailer Event	2	33,991	2	33,991
Retailer Co-Op				
Residential Demand Response (switch/pstat)	39	62		
Residential Demand Response (IHD)				
Residential New Construction				
Business Program				
Retrofit	30	212,433	30	212,433
Direct Install Lighting Building Commissioning	56	138,488	56	138,488
New Construction	20	109,754	20	109,754
Energy Audit				
Small Commercial Demand Response (switch/pstat)	1	2		
Small Commercial Demand Response (IHD)				
Demand Response 3				
Industrial Program				
Process & System Upgrades				
Monitoring & Targeting				
Energy Manager				
Retrofit				
Demand Response 3	45	1,019		
Home Assistance Program				
Home Assistance Program	1	14,155	1	14,037
Totals	247	644,098	161	642,897

Note: Persistence of results is as reported by the IESO.

Table A-4: Estimated persistence of 2011 adjustments into future years for Brant County Power

	2011 adjustments		Persistence of 2011 adjustments					
	2011		2012		2013		2014	
	Net Incremental Peak Demand Savings (kW)	Net Incremental Energy Savings (kWh)	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)
Consumer Program								
Appliance Retirement								
Appliance Exchange								
HVAC Incentives	-18	-33,585	-18	-33,585	-18	-33,585	-18	-33,585
Conservation Instant Coupon Booklet	0	545	0	545	0	545	0	545
Bi-Annual Retailer Event	0	4,320	0	4,320	0	4,320	0	4,320
Retailer Co-Op								
Residential Demand Response (switch/pstat)								
Residential Demand Response (IHD)								
Residential New Construction								
Business Program								
Retrofit	2	17,289	2	17,289	2	17,289	2	17,289
Direct Install Lighting Building Commissioning								
New Construction								
Energy Audit	5	26,398	5	26,398	5	26,398	5	26,398
Small Commercial Demand Response (switch/pstat)								
Small Commercial Demand Response (IHD)								
Demand Response 3								
Industrial Program								
Process & System Upgrades								
Monitoring & Targeting								
Energy Manager								
Retrofit								
Demand Response 3								
Home Assistance Program								
Home Assistance Program								
Totals	-10	14,968	-10	14,968	-10	14,968	-10	14,968

Note: Persistence of adjustments is as reported by the IESO.

Table A-5: Estimated persistence of 2012 adjustments into future years for Brant County Power

	2012 adjustments		Persistence of 2012 adjustments			
	2012		2013		2014	
	Incremental Peak Demand	Incremental Energy Savings	Peak Demand Savings (kW)	Energy Savings (kWh)	Peak Demand Savings (kW)	Energy Savings (kWh)
Consumer Program						
Appliance Retirement						
Appliance Exchange						
HVAC Incentives	2	3,879	2	3,879	2	3,879
Conservation Instant						
Coupon Booklet						
Bi-Annual Retailer						
Event						
Retailer Co-Op						
Residential Demand						
Response						
(switch/pstat)						
Residential Demand						
Response (IHD)						
Residential New						
Construction						
Business Program						
Retrofit	1	3,184	1	3,184	1	3,184
Direct Install Lighting						
Building						
Commissioning						
New Construction						
Energy Audit	0	854	0	854	0	854
Small Commercial						
Demand Response						
(switch/pstat)						
Small Commercial						
Demand Response						
(IHD)						
Demand Response 3						
Industrial Program						
Process & System						
Upgrades						
Monitoring &						
Targeting						
Energy Manager						
Retrofit						
Demand Response 3						
Home Assistance Program						
Home Assistance						
Program						
Totals	3	7,917	3	7,917	3	7,917

Note: Persistence of adjustments is as reported by the IESO.

Table A-6: Estimated persistence of 2013 adjustments into future years for Brant County Power

	2013 adjustments		Persistence of 2013 adjustments	
	2013		2014	
	Net Incremental Peak Demand Savings (kW)	Net Incremental Energy Savings (kWh)	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)
Consumer Program				
Appliance Retirement				
Appliance Exchange				
HVAC Incentives	2	3,962	2	3,962
Conservation Instant Coupon Booklet	0	47	0	47
Bi-Annual Retailer Event				
Retailer Co-Op				
Residential Demand Response (switch/pstat)				
Residential Demand Response (IHD)				
Residential New Construction				
Business Program				
Retrofit				
Direct Install Lighting Building Commissioning				
New Construction				
Energy Audit				
Small Commercial Demand Response (switch/pstat)				
Small Commercial Demand Response (IHD)				
Demand Response 3				
Industrial Program				
Process & System Upgrades				
Monitoring & Targeting				
Energy Manager				
Retrofit				
Demand Response 3				
Home Assistance Program				
Home Assistance Program	0	2,483	0	2,462
Totals	3	6,492	3	6,471

Note: Persistence of adjustments is as reported by the IESO.

Appendix B. CDM results breakdown by rate class

Table B-1: Percentage allocation by rate class for 2011 results and adjustments for Brant County Power

Initiative	Residential	GS < 50 kW	GS 50 to 4999 kW	Large User (GS > 5,000 kW)	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Microfit generator
Consumer Program								
Appliance Retirement	100%							
Appliance Exchange	100%							
HVAC Incentives	100%							
Conservation Instant Coupon Booklet	100%							
Bi-Annual Retailer Event	100%							
Retailer Co-op	100%							
Residential Demand Response	100%							
Residential New Construction	100%							
Business Program								
Retrofit		50%	50%					
Direct Install Lighting Building Commissioning		100%						
New Construction		80%	20%					
Energy Audit			100%					
Small Commercial Demand Response		100%						
Demand Response 3								
Industrial Program								
Process & System Upgrades			100%					
Monitoring & Targeting								
Energy Manager								
Retrofit		50%	50%					
Demand Response 3			100%					
Home Assistance Program								
Home Assistance Program	100%							
Pre-2011 Programs completed in 2011								
Electricity Retrofit Incentive Program		50%	50%					
High Performance New Construction			100%					

Source: Brant County Power. Rate class allocation percentage totals may not add up to 100% in cases where kWh savings are allocated to rate classes billed by kWh and kW demand reductions are allocated to rate classes billed by kW.

Table B-2: Percentage allocation by rate class for 2012 results and adjustments for Brant County Power

Initiative	Residential	GS < 50 kW	GS 50 to 4999 kW	Large User (GS > 5,000 kW)	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Microfit generator
Consumer Program								
Appliance Retirement	100%							
Appliance Exchange	100%							
HVAC Incentives	100%							
Conservation Instant	100%							
Coupon Booklet								
Bi-Annual Retailer	100%							
Event								
Retailer Co-Op	100%							
Residential Demand								
Response	100%							
(switch/pstat)								
Residential Demand	100%							
Response (IHD)								
Residential New								
Construction	100%							
Business Program								
Retrofit		50%	50%					
Direct Install Lighting		100%						
Building								
Commissioning								
New Construction			100%					
Energy Audit		50%	50%					
Small Commercial								
Demand Response		100%						
(switch/pstat)								
Small Commercial								
Demand Response								
(IHD)								
Demand Response 3								
Industrial Program								
Process & System								
Upgrades								
Monitoring &								
Targeting								
Energy Manager		50%	50%					
Retrofit								
Demand Response 3			100%					
Home Assistance Program								
Home Assistance	100%							
Program								
Pre-2011 Programs completed in 2011								
Electricity Retrofit								
Incentive Program								
High Performance								
New Construction			100%					

Source: Brant County Power. Rate class allocation percentage totals may not add up to 100% in cases where kWh savings are allocated to rate classes billed by kWh and kW demand reductions are allocated to rate classes billed by kW.

Table B-3: Percentage allocation by rate class for 2013 results and adjustments for Brant County Power

Initiative	Residential	GS < 50 kW	GS 50 to 4999 kW	Large User (GS > 5,000 kW)	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Microfit generator
Consumer Program								
Appliance Retirement	100%							
Appliance Exchange	100%							
HVAC Incentives	100%							
Conservation Instant Coupon Booklet	100%							
Bi-Annual Retailer Event	100%							
Retailer Co-Op	100%							
Residential Demand Response	100%							
(switch/pstat)								
Residential Demand Response (IHD)	100%							
Residential New Construction	100%							
Business Program								
Retrofit		54%	46%					
Direct Install Lighting Building		100%						
Commissioning New Construction		33%	67%					
Energy Audit								
Small Commercial Demand Response		100%						
(switch/pstat)								
Small Commercial Demand Response								
(IHD)								
Demand Response 3								
Industrial Program								
Process & System Upgrades								
Monitoring & Targeting								
Energy Manager								
Retrofit		54%	46%					
Demand Response 3			100%					
Home Assistance Program								
Home Assistance Program	100%							

Source: Brant County Power. Rate class allocation percentage totals may not add up to 100% in cases where kWh savings are allocated to rate classes billed by kWh and kW demand reductions are allocated to rate classes billed by kW.

Table B-4: Percentage allocation by rate class for 2014 results for Brant County Power

Initiative	Residential	GS < 50 kW	GS 50 to 4999 kW	Large User (GS > 5,000 kW)	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Microfit generator
Consumer Program								
Appliance Retirement	100%							
Appliance Exchange	100%							
HVAC Incentives	100%							
Conservation Instant Coupon Booklet	100%							
Bi-Annual Retailer Event	100%							
Retailer Co-Op	100%							
Residential Demand Response	100%							
(switch/pstat)								
Residential Demand Response (IHD)	100%							
Residential New Construction	100%							
Business Program								
Retrofit		77%	23%					
Direct Install Lighting Building		100%						
Commissioning								
New Construction		33%	67%					
Energy Audit		100%						
Small Commercial Demand Response		100%						
(switch/pstat)								
Small Commercial Demand Response								
(IHD)								
Demand Response 3			100%					
Industrial Program								
Process & System Upgrades								
Monitoring & Targeting								
Energy Manager								
Retrofit		77%	23%					
Demand Response 3			100%					
Home Assistance Program								
Home Assistance Program	100%							

Source: Brant County Power. Rate class allocation percentage totals may not add up to 100% in cases where kWh savings are allocated to rate classes billed by kWh and kW demand reductions are allocated to rate classes billed by kW.

Table B-5: Impact of CDM on load by rate class for 2011 for Brant County Power

Initiative	Residential kWh	GS < 50 kW kWh	GS 50 to 4999 kW kW	Large User (GS > 5,000 kW) kW	Unmetered Scattered Load kWh	Sentinel Lighting kW	Street Lighting kW	Microfit generator kW
Consumer Program								
Appliance Retirement	54,690							
Appliance Exchange	266							
HVAC Incentives	113,660							
Conservation Instant Coupon Booklet	38,683							
Bi-Annual Retailer Event	62,464							
Retailer Co-op								
Residential Demand Response								
Residential New Construction								
Business Program								
Retrofit		8,645	15					
Direct Install Lighting Building		9,616						
Commissioning New Construction								
Energy Audit			65					
Small Commercial Demand Response								
Demand Response 3								
Industrial Program								
Process & System Upgrades								
Monitoring & Targeting								
Energy Manager								
Retrofit								
Demand Response 3			652					
Home Assistance Program								
Home Assistance Program								
Pre-2011 Programs completed in 2011								
Electricity Retrofit		46,754	97					
Incentive Program								
High Performance New Construction			2					
Totals	269,762	65,014	830					

Note: Values are the product of the results by program from Table 1 plus adjustments from Table 2 multiplied by the allocation in Table B-2 plus the persistence of results and adjustments from previous years in Tables A-1 and A-4 multiplied by the allocation in Table B-1. Monthly kW values are multiplied by the number of months they are estimated to apply to for determining annual load impacts.

Table B-6: Impact of CDM on load by rate class for 2012 for Brant County Power

Initiative	Residential kWh	GS < 50 kW kWh	GS 50 to 4999 kW kW	Large User (GS > 5,000 kW) kW	Unmetered Scattered Load kWh	Sentinel Lighting kW	Street Lighting kW	Microfit generator kW
Consumer Program								
Appliance Retirement	113,231							
Appliance Exchange	5,377							
HVAC Incentives	207,151							
Conservation Instant Coupon Booklet	41,449							
Bi-Annual Retailer Event	115,452							
Retailer Co-Op								
Residential Demand Response (switch/pstat)								
Residential Demand Response (IHD)								
Residential New Construction								
Business Program								
Retrofit		406,944	798					
Direct Install Lighting Building Commissioning		360,843						
New Construction								
Energy Audit		13,015	97					
Small Commercial Demand Response (switch/pstat)								
Small Commercial Demand Response (IHD)								
Demand Response 3								
Industrial Program								
Process & System Upgrades								
Monitoring & Targeting								
Energy Manager								
Retrofit								
Demand Response 3			275					
Home Assistance Program								
Home Assistance Program	20,019							
Pre-2011 Programs completed in 2011								
Electricity Retrofit		46,754	97					
Incentive Program								
High Performance New Construction			5					
Totals	502,678	827,556	1,272					

Note: Values are the product of the results by program from Table 1 plus adjustments from Table 2 multiplied by the allocation in Table B-2 plus the persistence of results and adjustments from previous years in Tables A-1 and A-4 multiplied by the allocation in Table B-1. Monthly kW values are multiplied by the number of months they are estimated to apply to for determining annual load impacts.

Table B-7: Impact of CDM on load by rate class for 2013 for Brant County Power

Initiative	Residential kWh	GS < 50 kW kWh	GS 50 to 4999 kW kW	Large User (GS > 5,000 kW) kW	Unmetered Scattered Load kWh	Sentinel Lighting kW	Street Lighting kW	Microfit generator kW
Consumer Program								
Appliance Retirement	155,858							
Appliance Exchange	13,135							
HVAC Incentives	279,673							
Conservation Instant Coupon Booklet	56,746							
Bi-Annual Retailer Event	149,442							
Retailer Co-Op Residential Demand Response	62							
(switch/pstat) Residential Demand Response (IHD) Residential New Construction								
Business Program								
Retrofit		513,709	937					
Direct Install Lighting Building Commissioning		499,331						
New Construction		36,581	157					
Energy Audit		13,015	97					
Small Commercial Demand Response (switch/pstat) Small Commercial Demand Response (IHD) Demand Response 3		2						
Industrial Program								
Process & System Upgrades Monitoring & Targeting Energy Manager Retrofit Demand Response 3			134					
Home Assistance Program								
Home Assistance Program	35,557							
Pre-2011 Programs completed in 2011								
Electricity Retrofit Incentive Program High Performance New Construction		46,754	97					
			5					
Totals	690,473	1,109,392	1,427					

Note: Values are the product of the results by program from Table 1 plus adjustments from Table 2 multiplied by the allocations in Table B-3 plus the persistence of results and adjustments from previous years in Tables A-1 to A-2 and A-4 to A-5 multiplied by the allocations in Table B-1 and B-2. Monthly kW values are multiplied by the number of months they are estimated to apply to for determining annual load impacts.

Table B-8: Impact of CDM on load by rate class for 2014 for Brant County Power

Initiative	Residential kWh	GS < 50 kW kWh	GS 50 to 4999 kW kW	Large User (GS > 5,000 kW) kW	Unmetered Scattered Load kWh	Sentinel Lighting kW	Street Lighting kW	Microfit generator kW
Consumer Program								
Appliance Retirement	193,455							
Appliance Exchange	17,415							
HVAC Incentives	368,218							
Conservation Instant Coupon Booklet	116,819							
Bi-Annual Retailer Event	392,608							
Retailer Co-Op								
Residential Demand Response (switch/pstat)								
Residential Demand Response (IHD)								
Residential New Construction								
Business Program								
Retrofit		1,240,401	1,464					
Direct Install Lighting Building Commissioning		543,095						
New Construction		244,048	988					
Energy Audit		143,562	97					
Small Commercial Demand Response (switch/pstat)								
Small Commercial Demand Response (IHD)								
Demand Response 3								
Industrial Program								
Process & System Upgrades Monitoring & Targeting Energy Manager Retrofit								
Demand Response 3			1,347					
Home Assistance Program								
Home Assistance Program	56,633							
Pre-2011 Programs completed in 2011								
Electricity Retrofit Incentive Program		46,754	97					
High Performance New Construction			5					
Totals	1,145,149	2,217,860	3,998					

Note: Values are the product of the results by program from Table 1 plus adjustments from Table 2 multiplied by the allocations in Table B-4 plus the persistence of results and adjustments from previous years in Tables A-1 to A-6 multiplied by the allocations in Table B-1 to B-3. Monthly kW values are multiplied by the number of months they are estimated to apply to for determining annual load impacts.

Appendix C. Lost revenue

Table C-1: Distribution rates that impact lost revenue for each rate class for Brant County Power

Rate class	Billing unit	2011	2012	2013	2014
Residential	kWh	0.0230	0.0218	0.0209	0.0210
GS < 50 kW	kWh	0.0175	0.0175	0.0178	0.0179
GS 50 to 4999 kW	kW	3.9420	3.6792	3.8833	3.9154
Large User (GS > 5,000 kW)	kW	0.2710			
Unmetered					
Scattered Load	kWh	0.0187	0.0215	0.0230	0.0232
Sentinel Lighting	kW	22.6722	30.0190	30.1428	30.3922
Street Lighting	kW	30.7049	44.1796	44.3620	44.7289
Microfit generator	kW				

Notes: Distribution rates are from OEB approved rate schedules averaged from the rate year to the calendar year. Only the Distribution Volumetric Rate is used.

Table C-2: Lost revenues for each year by rate class for Brant County Power

Year	Component of lost revenue	Residential	GS < 50 kW	GS 50 to 4999 kW	Large User (GS > 5,000 kW)	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Microfit generator	Total
2011	Current year load losses	269,762	65,014	830						335,606
	Revenue impact (\$)	\$6,204.52	\$1,137.75	\$3,273.48						\$10,615.75
2012	Current year load losses	502,678	827,556	1,272						1,331,506
	Revenue impact (\$)	\$10,958.39	\$14,482.23	\$4,678.91						\$30,119.53
2013	Current year load losses	690,473	1,109,392	1,427						1,801,291
	Revenue impact (\$)	\$14,430.88	\$19,747.17	\$5,541.57						\$39,719.62
2014	Current year load losses	1,145,149	2,217,860	3,998						3,367,006
	Revenue impact (\$)	\$24,048.12	\$39,699.69	\$15,652.18						\$79,399.99
Total	Revenue impact (\$)	\$55,641.91	\$75,066.84	\$29,146.14						\$159,854.88

Notes: Load losses are from Tables B-6 to B-9 and include persistence from previous years
Forecast losses are from Table B-5
Revenue impact is net load loss multiplied by distribution rates from Table C-1

Table C-3: Monthly carrying charges by rate class for Brant County Power

	Residential	GS < 50 kW	GS 50 to 4999 kW	Large User (GS > 5,000 kW)	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Microfit generator	Total
Jan-11									
Feb-11	\$0.63	\$0.12	\$0.33						\$1.08
Mar-11	\$1.27	\$0.23	\$0.67						\$2.17
Apr-11	\$1.90	\$0.35	\$1.00						\$3.25
Opening balance for rate year 2011	\$3.80	\$0.70	\$2.01						\$6.50
May-11	\$2.53	\$0.46	\$1.34						\$4.33
Jun-11	\$3.17	\$0.58	\$1.67						\$5.42
Jul-11	\$3.80	\$0.70	\$2.01						\$6.50
Aug-11	\$4.43	\$0.81	\$2.34						\$7.59
Sep-11	\$5.07	\$0.93	\$2.67						\$8.67
Oct-11	\$5.70	\$1.05	\$3.01						\$9.75
Nov-11	\$6.33	\$1.16	\$3.34						\$10.84
Dec-11	\$6.97	\$1.28	\$3.68						\$11.92
Jan-12	\$7.60	\$1.39	\$4.01						\$13.00
Feb-12	\$8.72	\$2.87	\$4.49						\$16.08
Mar-12	\$9.84	\$4.35	\$4.97						\$19.15
Apr-12	\$10.96	\$5.83	\$5.44						\$22.23
Opening balance for rate year 2012	\$78.92	\$22.11	\$40.96						\$141.99
May-12	\$12.08	\$7.31	\$5.92						\$25.30
Jun-12	\$13.19	\$8.79	\$6.40						\$28.38
Jul-12	\$14.31	\$10.26	\$6.88						\$31.45
Aug-12	\$15.43	\$11.74	\$7.35						\$34.53
Sep-12	\$16.55	\$13.22	\$7.83						\$37.60
Oct-12	\$17.67	\$14.70	\$8.31						\$40.68
Nov-12	\$18.79	\$16.18	\$8.79						\$43.75
Dec-12	\$19.91	\$17.66	\$9.26						\$46.83
Jan-13	\$21.02	\$19.13	\$9.74						\$49.90
Feb-13	\$22.50	\$21.15	\$10.31						\$53.96
Mar-13	\$23.97	\$23.17	\$10.87						\$58.01
Apr-13	\$25.44	\$25.18	\$11.44						\$62.06
Opening balance for rate year 2013	\$299.78	\$210.60	\$144.06						\$654.44
May-13	\$26.92	\$27.20	\$12.00						\$66.12
Jun-13	\$28.39	\$29.21	\$12.57						\$70.17
Jul-13	\$29.86	\$31.23	\$13.14						\$74.23
Aug-13	\$31.34	\$33.25	\$13.70						\$78.28
Sep-13	\$32.81	\$35.26	\$14.27						\$82.34
Oct-13	\$34.28	\$37.28	\$14.83						\$86.39
Nov-13	\$35.76	\$39.29	\$15.40						\$90.45
Dec-13	\$37.23	\$41.31	\$15.96						\$94.50
Jan-14	\$38.70	\$43.32	\$16.53						\$98.56
Feb-14	\$41.16	\$47.38	\$18.13						\$106.66
Mar-14	\$43.61	\$51.43	\$19.73						\$114.77
Apr-14	\$46.07	\$55.48	\$21.32						\$122.87
Opening balance for rate year 2014	\$725.90	\$682.24	\$331.64						\$1,739.79
May-14	\$48.52	\$59.54	\$22.92						\$130.98
Jun-14	\$50.98	\$63.59	\$24.52						\$139.08
Jul-14	\$53.43	\$67.64	\$26.12						\$147.19
Aug-14	\$55.89	\$71.69	\$27.71						\$155.30
Sep-14	\$58.34	\$75.75	\$29.31						\$163.40
Oct-14	\$60.80	\$79.80	\$30.91						\$171.51
Nov-14	\$63.25	\$83.85	\$32.51						\$179.61
Dec-14	\$65.71	\$87.90	\$34.11						\$187.72
Jan-15	\$68.16	\$91.96	\$35.70						\$195.82
Feb-15	\$68.16	\$91.96	\$35.70						\$195.82
Mar-15	\$68.16	\$91.96	\$35.70						\$195.82
Apr-15	\$51.01	\$68.81	\$26.72						\$146.53
Opening balance for rate year 2015	\$1,438.31	\$1,616.68	\$693.58						\$3,748.57
May-15	\$51.01	\$68.81	\$26.72						\$146.53
Jun-15	\$51.01	\$68.81	\$26.72						\$146.53
Jul-15	\$51.01	\$68.81	\$26.72						\$146.53
Aug-15	\$51.01	\$68.81	\$26.72						\$146.53
Sep-15	\$51.01	\$68.81	\$26.72						\$146.53
Oct-15	\$51.01	\$68.81	\$26.72						\$146.53
Nov-15	\$51.01	\$68.81	\$26.72						\$146.53
Dec-15	\$51.01	\$68.81	\$26.72						\$146.53
Jan-16	\$51.01	\$68.81	\$26.72						\$146.53
Feb-16	\$51.01	\$68.81	\$26.72						\$146.53
Mar-16	\$51.01	\$68.81	\$26.72						\$146.53
Apr-16	\$51.01	\$68.81	\$26.72						\$146.53
Total to April 30, 2016	\$2,050.37	\$2,442.42	\$1,014.19						\$5,506.97

Notes: Carrying charges are simple interest (not compound) calculated using rates specified by the OEB. <http://www.ontarioenergyboard.ca/OEB/Industry/Rules+and+Requirements/Rules+Codes+Guidelines+and+Forms/Prescribed+Interest+Rates>
Annual savings are assumed to be distributed equally over the year and carrying charges are applied to the balance in the account each month.



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