

Entegrus Powerlines Inc.

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entegrus.com

November 12, 2015

Ms. Kirsten Walli Ontario Energy Board PO Box 2319 27th Floor, 2300 Yonge Street Toronto, Ontario M4P 1E4

Re: 2016 Cost of Service Application, Evidence Update

Board File No.: EB-2015-0061

Dear Ms. Walli,

On October 30, 2015, Entegrus Powerlines Inc. ("EPI") filed a letter with the Board highlighting four areas of update required to its previously filed Cost of Service Application evidence. Subsequently, on November 6, 2015, EPI filed updated evidence in relation to three of these areas: Streetlight Billing Determinants, Cost of Capital Parameters and Working Capital Allowance.

In the October 30^{th} letter, EPI noted that it anticipated receiving a revised LRAMVA report from its third party analysis firm during the week of November 9^{th} . EPI has now received the revised report and accordingly, updated the appropriate rates riders, noting specifically a decrease in the General Service > 50 - 4,999 kW and Large Use rate classes.

To assist with review of these updates, EPI has included the final reports and updated DVA Model in Live Excel format. These are also in PDF format attached to this letter as follows:

Attachment A: CK LRAMVA Final Report
Attachment B: SMP LRAMVA Final Report

Attachment C: EPI DVA Continuity Model (Updates on Tab "2. Disposition" and Tab "6. LRAM

& LRAMVA")

If you have any questions, please do not hesitate to contact us.

Regards,

[Original Signed By]

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cc: Stephen Vetsis, Ontario Energy Board

Jim Hogan, President & CEO

David Ferguson, Director of Regulatory & Human Resources

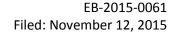
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ATTACHMENT A

CK LRAMVA Reporting

Prepared by

IndEco Strategic Consulting Inc.



Entegrus (Chatham-Kent) 2014 LRAMVA



Entegrus (Chatham-Kent) lost revenue related to Conservation and Demand Management

2014



This document was prepared for Entegrus Powerlines by IndEco Strategic Consulting Inc.

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IndEco report B3856 (CK 2014)

11 November 2015

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Introduction

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

Entegrus Powerlines is an amalgamation of Middlesex Power Distribution Corporation (MPDC) with Chatham-Kent Hydro that came into effect in 2012. Entegrus (Chatham-Kent) and Entegrus (MPDC) will be dealt with separately for LRAMVA purposes, as they each have different rates and rate classes.

Entegrus 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.

Entegrus submitted a claim for lost revenues from 2013 programs in its 2015 Incentive Regulation Mechanism (IRM) application. This report accounts for lost revenues resulting from CDM programs in 2014 and adjustments to 2013 CDM results provided with the 2014 final results in September 2015. Previous lost revenues were dealt with in earlier proceedings. This report involves a determination of the variance account balance for the following revenue losses:

- Lost revenues in 2013 related to adjustments to results from 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.

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

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

Methodology

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

LR = (CDM results – CDM results in the load forecast) * 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, Entegrus (Chatham-Kent) offered provincial programs that were offered in partnership with the Independent Electricity System Operator (IESO). Entegrus (Chatham-Kent) 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, Entegrus 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.³

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

³ See PowerStream 2015 rate decision, EB-2014-0108, pp. 5-6.

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

Distribution rates

Lost revenues for the LDC associated with CDM arise from reductions in the volumetric distribution 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 volumetric distribution charges, where applicable.

For most electricity distribution utilities in Ontario, including Entegrus (Chatham-Kent), 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.⁵ 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 variance account opening 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 January, and 12/12 of the annual results to December.

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.

⁵ 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 Entegrus (Chatham-Kent).

CDM results

IESO evaluation results

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

- The verified 2011, 2012, 2013, and 2014 results for Entegrus as a whole are shown in Table 1; and
- The adjustments to verified 2011, 2012, and 2013 results for Entegrus as a whole are shown in Table 2.6

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 persistence of 2011, 2012, and 2013 CDM program results and adjustments into 2014. The IESO has provided Entegrus with persistence data for all results and adjustments. Persistence values for some programs were missing for the 2013 adjustments and the updates to 2012 adjustments provided with the 2014 final results. The missing values were estimated by applying the persistence decline rate for the same program during the same year. If 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.

The IESO provided 2011 results for Chatham-Kent Hydro and Middlesex Power Distribution Corporation separately, but provided 2012, 2013, and 2014 results and 2011, 2012, and 2013 adjustments for Entegrus as a whole. As the subsets of Entegrus' service territory that were previously Chatham-Kent Hydro and Middlesex Power Distribution Corporation have different rate classes and rates, they must be handled as separate rate zones for lost revenue purposes. The percentages of load in each rate class for each year were used to allocate the results and adjustments between the previous service territories of Chatham-Kent Hydro and Middlesex Power Distribution Corporation. The percentage allocation of load (in kW or kWh, depending on the billing units of each rate class) by rate class for the

⁶ Verified 2011-2014 Final Results Report for Entegrus. Independent Electricity System Operator. September 1, 2015.

previous service territories of Chatham-Kent Hydro and Middlesex Power Distribution Corporation is shown in Tables A-2 (2013) and A-3 (2014) in Appendix A. Where rate classes match, the totals do not always add up to 100%, as Entegrus also includes two very small additional amalgamated previous service territories of Dutton and Newbury. The populations in both Dutton and Newbury are so small that it was assumed that they did not significantly contribute to CDM results.

Allocating results to rate classes

Entegrus staff 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 Entegrus (Chatham-Kent) has no program results.

Entegrus (Chatham-Kent) 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 unit) for Entegrus (Chatham-Kent) are:

- Residential (kWh)
- GS < 50 kW (kWh)
- GS 50 to 999 kW (kW)
- GS 1,000 TO 4,999 kW (kW)
- Intermediate with Self Generation (kW)
- Unmetered Scattered Load (kWh)
- Standby Power (kW)
- Sentinel Lighting (kW)
- Street Lighting (kW)
- Microfit Generator (N/A).

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

Entegrus (Chatham-Kent)'s last cost of service application was filed in 2010. 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 energy savings or demand reduction reported for Entegrus (Chatham-Kent) 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, with adjustments for results that do not affect revenue provides the overall impact of CDM on load by rate class.

Table B-5 in Appendix B shows the impact of CDM on load by rate class in 2013 from 2013 adjustments.

Table B-6 in Appendix B shows the persisting impact of CDM on load by rate class in 2014 from programs in 2011-2013.

Table B-7 in Appendix B shows the impact of CDM on load by rate class in 2014 from 2014 programs.

Distribution rates

The distribution rates that impact lost revenue for each rate class for Entegrus (Chatham-Kent) 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 2013 to 2014 time period.

Lost revenues

The lost revenues for 2013 and 2014 by rate class for Entegrus (Chatham-Kent) calculated from adjustments to 2013 results, persistence into 2014 from 2011-2013 program results, and final 2014 CDM program results are shown in Table C-2 in Appendix C. The lost revenue for 2013 is based on the adjustments to 2013 CDM program results in 2013 allocated by rate class and multiplied by the 2013 rate for that rate class. The lost revenue for 2014 is based on the 2014 CDM program results plus the persistence of the 2011 to 2013 program results and adjustments in 2014 allocated by rate class and multiplied by the 2014 rate for that rate class. The breakdown of these amounts by rate class is also shown in Table C-2.

This report accounts for lost revenues resulting from 2013 adjustments to results in 2013, results in 2014 from 2014 programs, and results persisting in 2014 from programs delivered in 2011, 2012 and 2013. Previous lost revenues were dealt with in earlier proceedings. The lost revenue for 2014 and 2013 is based on final verified results provided by the IESO.

Carrying charges

The monthly carrying charges by rate class on Entegrus (Chatham-Kent)'s lost revenue variance are shown in 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 Entegrus (Chatham-Kent) that includes results from CDM programs in 2014 and adjustments to 2013 results in 2013 is \$183,102.80. The total carrying charges on this LRAMVA balance accumulated to April 30, 2016 are \$4,151.89. These balances are attributable to individual rate classes according to the following table:

Rate class	LRAMVA	Carrying charges	Total
Residential	\$33,913.98	\$765.52	\$34,679.50
GS < 50 kW	\$62,477.66	\$1,415.98	\$63,893.65
GS 50 to 999 kW	\$53,211.11	\$1,215.68	\$54,426.79
GS 1,000 TO 4,999 kW	\$10,697.44	\$245.19	\$10,942.63
Intermediate with Self Generation	\$22,802.60	\$509.51	\$23,312.11
Totals	\$183,102.80	\$4,151.89	\$187,254.69

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

Appendix A.CDM results reported by the IESO

			Incremer	ntal Activity	ogram Level N	Net Inc	Year remental Peak demand savin				t Incremental E		(kWh) specified reporti	(exclud	ified Progress to Targe les DR) 2011-2014 Net
Initiative	Unit		reportin	ng period)			specified repo	orting period)			per	iod)		2014 Net Annual Peak Demand Savings (kW	Cumulative Energy Savings (kWh)
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
C onsumer Program			ı	1			1	1	1			T			
Appliance Retirement	Appliances	421	301	182	189	24	18	12	13	177,892	119,701	76,967	82,745	66	1,307,148
Appliance Exchange	Appliances	32	28	35	64	3	4	7	13	3,098	7,322	12,930	23,644	25	81,705
HVAC Incentives	E quipment	1,040	870	838	994	318	182	160	188	569,794	303,127	264,990	344,593	848	4,063,129
Conservation Instant Coupon Booklet	Items	3,719	223	2,514	7,463	9	2	4	15	136,065	10,104	55,697	203,469	29	889,432
Bi-Annual Retailer Event	Items	6,880	7,666	6,827	34,865	12	11	9	58	212,360	193,530	124,145	888,122	90	2,566,444
R etailer C o-op	Items	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Demand Response	Devices	232	0	765	1,697	130	0	341	625	336	0	603	0	625	940
Residential Demand Response (IHD)	Devices	0	0	765	1,683	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						495	216	533	912	1,099,545	633,784	535,332	1,542,573	1,683	8,908,798
Business Program															
R etrofit	Projects	43	94	100	190	112	711	458	838	520,887	4,149,424	2,612,541	5,046,300	2,069	24,615,253
Direct Install Lighting	Projects	53	253	117	110	58	201	134	109	144,062	782,496	466,827	394,100	488	4,200,978
Building Commissioning	Buildings	0	0	0	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	0	0	0
E nergy Audit	Audits	0	0	2	0	0	0	0	0	0	0	0	0	0	0
S mall Commercial Demand Response	Devices	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Commercial Demand Response (IHD		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	1	1	1	1	68	68	69	47	2,636	984	917	0	47	4,536
Business Program Total			l .			237	980	661	994	667,585	4,932,904	3,080,285	5,440,400	2,604	28,820,767
Industrial Program										001,000	.,,		2,112,122	-,	
Process & System Upgrades	Projects	0	0	0	1	0	0	0	333	0	0	0	3,316,500	333	3,316,500
Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Manager	Projects	0	4	4	5	0	141	101	23	0	246,600	176,580	314,228	265	1,407,188
Retrofit	Projects	4	0	0	0	10	0	0	0	70,196	0	0	0	10	280,785
Demand Response 3	Facilities	2	0	1	5	754	0	0	677	44,275	0	0	0	677	44,275
Industrial Program Total	i aciiiues					765	141	101	1,032	114,471	246,600	176,580	3,630,728	1,285	5,048,749
ilidustiai Fiografii Totai						703	141	101	1,032	114,471	240,000	170,380	3,030,728	1,283	3,048,743
Home Assistance Program Home Assistance Program	Homes	0	169	1,201	173	0	18	58	18	0	228,459	773,555	172,172	92	2,383,581
Home Assistance Program Home Assistance Program Total	nomes	U	109	1,201	1/3	0	18	58	18	0	228,459	773,555 773,555	172,172	92	2,383,581
Trome Assistance Program Total						U	18	38	18	U	220,439	773,333	1/2,1/2	92	2,363,361
Aboriginal Program		0	0	0	0	0	0		0	0	0	0	0	0	0
Home Assistance Program	Homes			-	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															
E lectricity R etrofit Incentive P rogram	Projects	18	0	0	0	111	0	0	0	707,984	0	0	0	111	2,831,935
High Performance New Construction	Projects	0	0	0	0	1	1	0	0	2,786	791	0	0	1	13,519
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	,					112	1	0	0	710,770	791	0	0	113	2,845,454
Other										-,					, -, -,
Program Enabled Savings	Projects	0	0	0	1	0	0	0	45	0	0	0	134,467	45	134,467
													<u> </u>		
Time-of-Use Savings	Homes	0	0	0	n/a	0	0	0	499	0	0	0	0	499	0
LDC Pilots	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O ther Total						0	0	0	544	0	0	0	134,467	544	134,467
Adjustments to 2011 Verified Results							-26	0	0		-3,240	0	0	-27	-14,890
Adjustments to 2012 Verified Results								21	16			177,421	133,802	37	1,286,931
4 diverse and 4- 2042 Maniferd Describe									107				686,764	107	1,378,182
Adjustments to 2013 Verified Results						657	1.288	944	2.152	2.545.124	6,041,553	4,564,232	10.920.340	4.972	48.092.064
							,			,,	984	1,520	0		49,751
Energy Efficiency Total						952	68							1 3/19	
Energy Efficiency Total Demand Response Total (Scenario 1)	Results Total					952	-26	409	1,349	47,247			_	1,349	
Energy Efficiency Total Demand Response Total (Scenario 1) Adjustments to Previous Years' Verified						0	-26	21	123	0	-3,240	177,421	820,565	118	2,650,223
Energy Efficiency Total Demand Response Total (Scenario 1) Adjustments to Previous Years' Verified OPA-Contracted LDC Portfolio Total (ir	nc. Adjustments)			for the contract of the contra	Marked "	0 1,609	-26 1,329					177,421 4,743,174	820,565 11,740,906	118 6,438	2,650,223 50,792,039
Energy Efficiency Total Demand Response Total (Scenario 1) Adjustments to Previous Years' Verified	nc. Adjustments) urces for each year re	epresent the savin	gs from all activ	re facilities or de	v *Includes adjustm R esults presented	0 1,609 ents after Final Re	-26 1,329 ports were issued	21 1,374	123 3,624	0 2,592,371	-3,240	177,421 4,743,174	820,565	118	2,650,223

Initiative	Unit		Incremental An activity occurr	Activity ring within the		(new peak d	e to Variances mental Peak D emand savings pecified reporti	emand Saving from activity v			ncremental Ener savings from ac reporting p	tivity within the			ified Progress to Target les DR) 2011-2014 Net Cumulative Energy
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	Savings (kWh) 2014
C onsumer P rogram															
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	-145	22	28		-39	4	6		-69,288	7,786	10,288		-29	-233,219
Conservation Instant Coupon Booklet	Items	59	0	8		0	0	0		1,992	0	170		0	8,308
Bi-Annual Retailer Event	Items	591	0	0		1	0	0		15,778	0	0		1	63,111
R etailer C o-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						-38	4	6		-51,519	7,786	10,458		-28	-161,801
Business Program														·	
Retrofit	Projects	4	20	14		10	27	77		41,693	260,823	485,650		113	1,917,383
Direct Install Lighting	Projects	2	4	0		2	3	0		6,585	10,883	0		4	57,061
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	0	0	2		0	0	18		0	0	96,966		18	193,932
S mall Commercial Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
S mall 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						12	30	95		48,278	271,706	582,615		135	2,168,376
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	2	2		0	38	0		0	284,310	20,935		1	453,531
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	1		-			0	38	0		0	284,310	20,935		1	453,531
Home Assistance Program											. ,	1,111			,
Home Assistance Program	Homes	0	6	64		0	1	7		0	12,342	77,409		9	190,117
Home Assistance Program Total	1					0	1	7		0	12,342	77,409		9	190,117
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	Projects	0	U			0	0	0		0	0	0		0	0
						U	U	U		U				U	U
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						-26				-3,240				-27	-14,890
Adjustments to 2012 Verified Results							74				576,144			37	1,286,931
Adjustments to 2013 Verified Results	D It-							108				691,418		107	1,378,182
Total Adjustments to Previous Years' Verified I	n es uits					-26	74	108		-3,240	576,144	691,418		118	2,650,223

Activity and savings for Demand Response resources for each year represer 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 years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented above in Table 1 as the information presented above is presented above in Table 1 as the information presented above is presented above in Table 1 as the information presented above in Table 1 as the inf

Table A-1: Persistence in 2014 of results from previous years for Entegrus

	2011 pro	grams	2012 pro	grams	2013 pr	ograms	2013 adjustments	
# Initiative	Incremental Peak Demand Savings (kW)		Incremental Peak Demand Savings (kW)		Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)
Consumer Program								
1 Appliance Retirement	24	177,689	18	119,701	12	76,967		
2 Appliance Exchange	1	941	4	7,322	7	12,930		
3 HVAC Incentives	279	500,506	186	310,912	160	264,990	6	10,288
4 Conservation Instant Coupon Booklet	9	138,057	2	10,104	4	55,697	0	170
5 Bi-Annual Retailer Event	13	228,138	11	193,530	9	124,145		
6 Retailer Co-Op 7 Residential Demand Response								
8 Residential Demand Response (IHD)								
9 Residential New								
Construction								
Business Program								
10 Retrofit	122	562,580	702	4,286,038	443	2,565,528	74	476,910
11 Direct Install Lighting 12 Building Commissioning	49	119,030	199	772,555	134	466,827		
13 New Construction 14 Energy Audit 15 Small Commercial							18	96,966
Demand Response (switch/pstat)								
16 Small Commercial								
Demand Response								
(IHD)								
17 Demand Response 3								
Industrial Program								
18 Process & System								
Upgrades								
19 Monitoring &								
Targeting								
20 Energy Manager			143	266,220	101	176,580	0	20,935
21 Retrofit	10	70,196						
22 Demand Response 3								
Home Assistance Program								
23 Home Assistance			18	229,021	57	752,478	7	75,300
Program	. 11 0011					,	·	- ,
Pre-2011 Programs compl	eted in 2011							
24 Electricity Retrofit Incentive Program	111	707,984						
25 High Performance New Construction	1	2,786	1	791				

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

Table A-2: Percentage allocation of load by rate class for the previous service territories of Chatham-Kent Hydro and Middlesex Power Distribution Corporation for 2013

	U	,		Ch	atham-Kent H	ydro			•	
	Residential	GS < 50 kW	GS 50 to 999 kW	GS 1,000 TO 4,999 kW	Intermediate with Self Generation	Unmetered Scattered Load	Standby Power	Sentinel Lighting	Street Lighting	Microfit Generator
Allocation	77%	79%	79%	79%	100%	74%	100%	89%	79%	
				Middlesex Po	wer Distribution	on Corporation	ı			
	Residential	GS < 50 kW	GS 50 to 4,999 kW	Large Use		Unmetered Scattered Load		Sentinel Lighting	Street Lighting	MicroFIT Generator
Allocation	21%	17%	21%	100%		26%		11%	19%	

Note: The percentage allocation for each rate class by previous service service territory is based on the proportion of Entegrus' total loss-adjusted billed kWh or billed kW.

Table A-3: Percentage allocation of load by rate class for the previous service territories of Chatham-Kent Hydro and Middlesex Power Distribution Corporation for 2014

				Cha	tham-Kent Hy	dro				
	Residential	GS < 50 kW	GS 50 to 999 kW	GS 1,000 TO 4,999 kW	Intermediate with Self Generation	Unmetered Scattered Load	Standby Power	Sentinel Lighting	Street Lighting	Microfit Generator
Allocation	78%	81%	74%	100%	100%	74%	100%	89%	78%	0%
				Middlesex Pov	ver Distributio	n Corporation				
	Residential	GS < 50 kW	GS 50 to 4,999 kW	Large Use		Unmetered Scattered Load		Sentinel Lighting	Street Lighting	MicroFIT Generator
Allocation	20%	16%	26%	100%		26%		11%	19%	0%

Note: The percentage allocation for each rate class by previous service service territory is based on the proportion of Entegrus' total loss-adjusted billed kWh or billed kW.

Appendix B. CDM results breakdown by rate class

Table B-1: Percentage allocation by rate class for 2011 results and adjustments for Chatham-Kent Hydro

Table B-1: Percentage allocatio	,		,		Intermediate	Unmetered				
# Initiative	Residential	GS < 50 kW	GS 50 to 999 kW	GS 1,000 TO 4,999 kW		Scattered Load	Standby Power	Sentinel Lighting	Street Lighting	Microfit Generator
Consumer Program	Residential	G5 < 50 KW	333 KVV	4,555 KVV	Generation	Loud	Tower	Ligittiig	Lighting	Generator
	100%									
1 Appliance Retirement										
2 Appliance Exchange	100%									
3 HVAC Incentives	100%									
4 Conservation Instant Coupon Booklet	100%									
5 Bi-Annual Retailer Event	100%									
6 Retailer Co-op	100%									
7 Residential Demand	100%									
Response 8 Residential New Construction	100%									
Business Program										
9 Efficiency: Equipment										
Replacement		51%	49%							
10 Direct Install Lighting		100%								
11 Existing Building		10070								
Commissioning										
Incentive										
12 New Construction and										
Major Renovation										
Incentive										
13 Energy Audit										
14 Commercial Demand										
Response (part of the										
Residential program										
schedule)										
15 Demand Response 3										
(part of the Industrial										
program schedule)										
Industrial Program										
16 Process & System										
Upgrades										
17 Monitoring &										
Targeting										
18 Energy Manager										
19 Efficiency: Equipment										
Replacement										
Incentive (part of the			93%	7%						
C&I program										
schedule)										
20 Demand Response 3										
Home Assistance Program										
21 Home Assistance	100%									
Program										
Pre-2011 Programs compl	eted in 2011									
22 Electricity Retrofit		29%	71%							
Incentive Program		20,0	. 1 /0							
23 High Performance			100%							
New Construction			10070							
Source: Entegrus										

Source: Entegrus

Table B-2: Percentage allocation by rate class for 2012 results and adjustments for Chatham-Kent Hydro

						Intermediate	Unmetered				
					GS 1,000 TO	with Self	Scattered	Standby	Sentinel	Street	Microfit
_	Initiative	Residential	GS < 50 kW	kW	4,999 kW	Generation	Load	Power	Lighting	Lighting	Generator
	nsumer Program										
	Appliance Retirement	100%									
	Appliance Exchange	100%									
3	HVAC Incentives	100%									
4	Conservation Instant Coupon Booklet	100%									
5	Bi-Annual Retailer	100%									
6	Retailer Co-Op	100%									
7	Residential Demand Response	100%									
8	Residential Demand Response (IHD)	100%									
9	Residential New Construction	100%									
Bus	iness Program										
10	Retrofit		56%	44%							
11	Direct Install Lighting		100%								
	Building										
	Commissioning										
13	New Construction										
14	Energy Audit										
15	Small Commercial										
	Demand Response										
	(switch/pstat)										
16	Small Commercial										
	Demand Response										
	(IHD)										
	Demand Response 3										
	ustrial Program										
18	Process & System										
	Upgrades										
19	Monitoring &										
	Targeting										
20	Energy Manager				100%						
	Retrofit		1%	8%	75%	16%					
	Demand Response 3		.,,								
	me Assistance Program										
	Home Assistance										
	Program	100%									
C	rce. Entegrus										

Source: Entegrus

Table B-3: Percentage allocation by rate class for 2013 results and adjustments for Chatham-Kent Hydro

					Intermediate					
# Initiative	Residential	GS < 50 kW	GS 50 to 999 kW	GS 1,000 TO 4,999 kW	with Self Generation	Scattered Load	Standby Power	Sentinel Lighting	Street Lighting	Microfit Generator
Consumer Program										
1 Appliance Retirement	100%									
2 Appliance Exchange	100%									
3 HVAC Incentives	100%									
4 Conservation Instant Coupon Booklet	100%									
5 Bi-Annual Retailer Event	100%									
6 Retailer Co-Op 7 Residential Demand	100%									
Response (switch/pstat)	100%									
8 Residential Demand Response (IHD)	100%									
9 Residential New Construction	100%									
Business Program										
10 Retrofit		33%	54%	13%	0.3%					
11 Direct Install Lighting		100%								
12 Building Commissioning			100%							
13 New Construction			100%							
14 Energy Audit			100%							
15 Small Commercial										
Demand Response										
(switch/pstat)										
16 Small Commercial										
Demand Response		100%								
(IHD)										
17 Demand Response 3										
Industrial Program										
18 Process & System					100%					
Upgrades					100 /6					
19 Monitoring &										
Targeting										
20 Energy Manager					100%					
21 Retrofit		50%	50%							
22 Demand Response 3										
Home Assistance Program										
23 Home Assistance	100%									
Program	10070									
Source: Entegrus										

Source: Entegrus

Table B-4: Percentage allocation by rate class for 2014 results for Chatham-Kent Hydro

				00 4	Intermediate					~
# Initiative	Residential	GS < 50 kW	GS 50 to 999 kW	GS 1,000 TO 4,999 kW	with Self Generation	Scattered Load	Standby Power	Sentinel Lighting	Street Lighting	Microfit Generator
Consumer Program										
1 Appliance Retirement	100%									
2 Appliance Exchange	100%									
3 HVAC Incentives	100%									
4 Conservation Instant Coupon Booklet	100%									
5 Bi-Annual Retailer Event	100%									
6 Retailer Co-Op 7 Residential Demand	100%									
Response (switch/pstat)	100%									
8 Residential Demand Response (IHD)	100%									
9 Residential New Construction	100%									
Business Program										
10 Retrofit		15%	68%	2%						
11 Direct Install Lighting		100%								
12 Building			1000/							
Commissioning			100%							
13 New Construction			100%							
14 Energy Audit			100%							
15 Small Commercial										
Demand Response										
(switch/pstat)										
16 Small Commercial										
Demand Response										
(IHD)										
17 Demand Response 3			100%							
Industrial Program			10070							
18 Process & System										
Upgrades					100%					
19 Monitoring &										
Targeting										
20 Energy Manager					100%					
21 Retrofit					10076					
22 Demand Response 3			28%		58%					
Home Assistance Program			20 /0		30 /0					
23 Home Assistance										
Program	100%									
Other										
29 Program Enabled										
Savings			100%	d up to 100% is						

Source: Entegrus. Rate class allocation percentage totals may not add up to 100% in cases where results are allocated to rate classes across rate zones based on specific project results. The total for both rate zones will add up to 100%.

Table B-5: Impact of CDM on load in 2013 by rate class for 2013 adjustments for Chatham-Kent Hydro

			GS 50 to 999	GS 1,000 TO	Intermediate with Self	Scattered	Standby	Sentinel	Street	Microfit
# Initiative	Residential	GS < 50 kW	kW	4,999 kW	Generation	Load	Power	Lighting	Lighting	Generator
Units	kWh	kWh	kW	kW	kW	kWh	kW	kW	kW	NA
Consumer Program										
1 Appliance Retirement										
2 Appliance Exchange										
3 HVAC Incentives	7,919									
4 Conservation Instant	131									
Coupon Booklet	131									
5 Bi-Annual Retailer										
Event										
6 Retailer Co-Op										
7										
Residential Demand										
Response (switch/pstat)										
8 Residential Demand										
Response (IHD)										
9 Residential New										
Construction										
Business Program										
10 Retrofit		127,020	393	95	3					
11 Direct Install Lighting										
12 Building										
Commissioning										
13 New Construction										
14 Energy Audit			167							
15 Small Commercial										
Demand Response										
(switch/pstat)										
16 Small Commercial										
Demand Response										
(IHD)										
17 Demand Response 3										
Industrial Program										
18 Process & System										
Upgrades										
19 Monitoring &										
Targeting										
20 Energy Manager					4					
21 Retrofit										
22 Demand Response 3										
Home Assistance Program										
23 Home Assistance	59,585									
Program										
Total	67,635	127,020	560	95	7					

Note: Impact on load is calculated from the 2013 adjustments to net incremental peak demand or net incremental savings in Table 2 from the IESO (Appendix A). The demand or savings results are used, depending on how that rate class is billed for distribution service, and the Entegrus rate class load totals are allocated by rate zone based on the percentages in Table A-2 and by rate class based on the percentages in Table B-3. Where billing is by monthly demand (kW), the annual demand is 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 in 2014 by rate class from the persistence of 2011-2013 program results (including adjustments) for Chatham-Kent Hydro

·	ie в-6: impact of CDM on id	au III 2014 by 1	ate class from the	persistence of	2011-2015 progr	Intermediate		, ioi Chathani-i	icini riyuro		
				GS 50 to	GS 1,000 TO		Scattered	Standby	Sentinel	Street	Microfit
#	Initiative	Residential	GS < 50 kW	999 kW	4,999 kW	Generation	Load	Power	Lighting	Lighting	Generator
	Units	kWh	kWh	kW	kW	kW	kWh	kW	kW	kW	NA
Co	nsumer Program										
1	Appliance Retirement	281,902									
2	Appliance Exchange	16,313									
3	HVAC Incentives	881,300									
4	Conservation Instant Coupon Booklet	160,414									
5	Bi-Annual Retailer Event	429,878									
6	Retailer Co-Op										
7	Residential Demand Response										
	(switch/pstat)										
8	Residential Demand										
	Response (IHD)										
9	Residential New										
_	Construction										
	siness Program										
	Retrofit		3,010,083	6,124	636	19					
11	0 0		1,101,411								
12	Building										
	Commissioning										
	New Construction										
	Energy Audit			167							
15	Small Commercial										
	Demand Response										
	(switch/pstat)										
16	Small Commercial										
	Demand Response										
	(IHD)										
17	Demand Response 3										
Ind	lustrial Program										
18	Process & System										
	Upgrades										
19	Monitoring &										
	Targeting										
	Energy Manager				1,363	1,219					
	Retrofit			116	9						
	Demand Response 3										
_	me Assistance Program										
23	Home Assistance Program	817,553									
Pre	-2011 Programs comple	eted in 2011									
	Electricity Retrofit		170 716	701							
	Incentive Program		172,716	784							
25	High Performance			_							
	New Construction			7							
	Total	2,587,360	4,284,210	7,198	2,009	1,238					
No	te: Impact on load is cal		the percistance	of 2011 20	13 rocults and a	diuctments inte	o 2014 in Tabl	ο Δ 1 Tho do	mand or cavir	ac roculte are	usod

Note: Impact on load is calculated from the persistence of 2011-2013 results and adjustments into 2014 in Table A-1. The demand or savings results are used, depending on how that rate class is billed for distribution service, and the Entegrus rate class load totals are allocated by rate zone based on the percentages in Table A-3 and by rate class based on the percentages in Tables B-1, B-2, and B-3. Results and adjustments for 2011 were provided by the OPA for Chatham-Kent Hydro and Middlesex Power Distribution separately, but are shown consolidated in Table A-1 for consistency. Where billing is by monthly demand (kW), the annual demand is 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 2014 programs for Chatham-Kent Hydro

			GS 50 to	GS 1,000 TO	Intermediate with Self	Unmetered Scattered	Standby	Sentinel	Street	Microfit
# Initiative	Residential	GS < 50 kW	999 kW	4,999 kW	Generation	Load	Power	Lighting	Lighting	Generator
Units	kWh	kWh	kW	kW	kW	kWh	kW	kW	kW	NA
Consumer Program										
1 Appliance Retirement	64,492									
2 Appliance Exchange	18,428									
3 HVAC Incentives	268,576									
4 Conservation Instant Coupon Booklet	158,584									
5 Bi-Annual Retailer Event	692,205									
6 Retailer Co-Op										
7 Residential Demand										
Response										
(switch/pstat)										
8 Residential Demand										
Response (IHD)										
9 Residential New										
Construction										
Business Program										
10 Retrofit		753,864	6,838	218						
11 Direct Install Lighting		317,631								
12 Building										
Commissioning										
13 New Construction										
14 Energy Audit										
15 Small Commercial										
Demand Response										
(switch/pstat)										
16 Small Commercial										
Demand Response										
(IHD)										
17 Demand Response 3			141							
Industrial Program										
18 Process & System					3,996					
Upgrades					3,330					
19 Monitoring &										
Targeting										
20 Energy Manager					271					
21 Retrofit										
22 Demand Response 3			567		1,180					
Home Assistance Program										
23 Home Assistance Program	134,191									
Other										
29 Program Enabled			397							
Savings										
Total	1,336,477	1,071,495	7,943	218	5,447					

Note: Impact on load is calculated from net incremental peak demand or net incremental savings in Table 1 from the IESO (Appendix A). The demand or savings results are used, depending on how that rate class is billed for distribution service, and the Entegrus rate class load totals are allocated by rate zone based on the percentages in Table A-3 and by rate class based on the percentages in Table B-4. Where billing is by monthly demand (kW), the annual demand is 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 Chatham-Kent Hydro

Rate class	Billing unit	2013	2014
Residential	kWh	0.0083	0.0085
GS < 50 kW	kWh	0.0112	0.0114
GS 50 to 999 kW	kW	3.3407	3.3908
GS 1,000 TO 4,999 kW	kW	4.5439	4.6120
Intermediate with Self Generation	kW	3.3599	3.4073
Unmetered Scattered Load	kWh	0.0007	0.0006
Standby Power	kW		
Sentinel Lighting	kW	0.3829	0.4161
Street Lighting	kW	1.1529	1.1897
Microfit Generator	NA		

Notes: Distribution rates are from OEB approved rate schedules averaged from the rate year to the calendar year. Only the Distribution Volumetric Rate and the Rate Rider for Application of Tax Change are used.

Table C-2: Lost revenues in 2013 from 2013 adjustments and in 2014 from 2011-2014 results and adjustments by rate class for Chatham-Kent Hydro

Year of lost	Basis for loss	Residential	GS < 50 kW	GS 50 to 999	GS 1,000 TO 4,999 kW	Intermediate with Self Generation	Total
revenue				kW	,		Total
2013	2013 adjustments	\$561.37	\$1,422.62	\$ 1,871.98	\$430.45	\$23.63	\$4,310.04
	2011 persistence	\$7,181.21	\$5,827.37	\$4,861.78	\$40.33		\$1 <i>7,</i> 910.68
2014	2012 persistence	\$5,828.33	\$29,723.30	\$10,013.50	\$6,287.44		\$51,852.57
2014	2013 persistence	\$8,983.03	\$13,289.33	\$9,530.76	\$2,935.53	\$4,217.87	\$38,956.51
	2014 results	\$11,360.06	\$12,215.04	\$26,933.10	\$1,003.70	\$18,561.11	\$70,073.00
Total		\$33,913.98	\$62,477.66	\$53,211.11	\$10,697.44	\$22,802.60	\$183,102.80

Notes: Values are the product of the actual lost loads (Tables B-5, B-6, and B-7), and the rates (Table C-1) for each rate class. There is no lost revenue associated with rate classes not included in this table.

Table C-3: Monthly carrying charges by rate class for Chatham-Kent Hydro

Month	Residential	GS < 50 kW	GS 50 to 999 kW	GS 1,000 TO 4,999 kW	Intermediate with Self Generation	Total
Jan-13				·		
Feb-13	\$0.06	\$0.15	\$0.19	\$0.04	\$0.00	\$0.44
Mar-13	\$0.11	\$0.29	\$0.38	\$0.09	\$0.00	\$0.88
Apr-13	\$0.17	\$0.44	\$0.57	\$0.13	\$0.01	\$1.32
Total for Rate						
year 2012	\$0.34	\$0.87	\$1.15	\$0.26	\$0.01	\$2.64
, May-13	\$0.23	\$0.58	\$0.76	\$0.18	\$0.01	\$1.76
Jun-13	\$0.29	\$0.73	\$0.96	\$0.22	\$0.01	\$2.20
Jul-13	\$0.34	\$0.87	\$1.15	\$0.26	\$0.01	\$2.64
Aug-13	\$0.40	\$1.02	\$1.34	\$0.31	\$0.02	\$3.08
Sep-13	\$0.46	\$1.16	\$1.53	\$0.35	\$0.02	\$3.52
Oct-13	\$0.52	\$1.31	\$1.72	\$0.40	\$0.02	\$3.96
Nov-13	\$0.57	\$1.45	\$1.91	\$0.44	\$0.02	\$4.40
Dec-13	\$0.63	\$1.60	\$2.10	\$0.48	\$0.03	\$4.84
Jan-14	\$0.69	\$1.74	\$2.29	\$0.53	\$0.03	\$5.28
Feb-14	\$4.09	\$7.98	\$7.53	\$1.58	\$2.35	\$23.53
Mar-14	\$7.50	\$14.21	\$12.77	\$2.62	\$4.68	\$41.78
Apr-14	\$10.90	\$20.44	\$18.02	\$3.67	\$7.01	\$60.04
Total for Rate						
year 2013	\$26.96	\$53.95	\$53.23	\$11.30	\$14.23	\$159.67
May-14	\$14.31	\$26.67	\$23.26	\$4.72	\$9.33	\$78.29
Jun-14	\$17.71	\$32.91	\$28.50	\$5.77	\$11.66	\$96.54
Jul-14	\$21.12	\$39.14	\$33.74	\$6.82	\$13.98	\$114.79
Aug-14	\$24.52	\$45.37	\$38.98	\$7.86	\$16.31	\$133.04
Sep-14	\$27.93	\$51.60	\$44.22	\$8.91	\$18.63	\$151.29
Oct-14	\$31.33	\$57.84	\$49.46	\$9.96	\$20.96	\$169.55
Nov-14	\$34.74	\$64.07	\$54.70	\$11.01	\$23.28	\$187.80
Dec-14	\$38.14	\$70.30	\$59.94	\$12.06	\$25.61	\$206.05
Jan-15	\$41.54	\$76.54	\$65.18	\$13.10	\$27.93	\$224.30
Feb-15	\$41.54	\$76.54	\$65.18	\$13.10	\$27.93	\$224.30
Mar-15	\$41.54	\$76.54	\$65.18	\$13.10	\$27.93	\$224.30
Apr-15	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Total for Rate year 2014	\$392.47	\$728.73	\$630.36	\$127.52	\$258.68	\$2,137.76
May-15	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Jun-15	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Jul-15	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Aug-15	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Sep-15	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Oct-15	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Nov-15	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Dec-15	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Jan-16	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Feb-16	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Mar-16	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Apr-16	\$31.09	\$57.27	\$48.78	\$9.81	\$20.90	\$167.84
Total to April 30,	\$765.52	\$1,415.99	\$1,215.68	\$245.19	\$509.51	\$4,151.89

Note: Carrying charges are simple interest (not compound) calculated using rates specified by the OEB at: 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

There are no carrying charges associated with rate classes not included in this table.

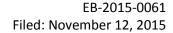


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ATTACHMENT B

SMP LRAMVA Reporting

Prepared by

IndEco Strategic Consulting Inc.



Entegrus (MPDC) 2014 LRAMVA



















Entegrus (MPDC) lost revenue related to Conservation and Demand Management

2014



This document was prepared for Entegrus Powerlines by IndEco Strategic Consulting Inc.

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IndEco report B3856 (MPDC 2014)

11 November 2015

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Introduction

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

Entegrus Powerlines is an amalgamation of Middlesex Power Distribution Corporation (MPDC) with Chatham-Kent Hydro that came into effect in 2012. Entegrus (Chatham-Kent) and Entegrus (MPDC) will be dealt with separately for LRAMVA purposes, as they each have different rates and rate classes.

Entegrus 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.

Entegrus submitted a claim for lost revenues from 2013 programs in its 2015 Incentive Regulation Mechanism (IRM) application. This report accounts for lost revenues resulting from CDM programs in 2014 and adjustments to 2013 CDM results provided with the 2014 final results in September 2015. Previous lost revenues were dealt with in earlier proceedings. This report involves a determination of the variance account balance for the following revenue losses:

- Lost revenues in 2013 related to adjustments to savings from 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.

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

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

Methodology

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

LR = (CDM results – CDM results in the load forecast) * 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, Entegrus (MPDC) offered provincial programs that were offered in partnership with the Independent Electricity System Operator (IESO). Entegrus (MPDC) 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, Entegrus 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.³

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

³ See PowerStream 2015 rate decision, EB-2014-0108, pp. 5-6.

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

Distribution rates

Lost revenues for the LDC associated with CDM arise from reductions in the volumetric distribution 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 volumetric distribution charges, where applicable.

For most electricity distribution utilities in Ontario, including Entegrus (MPDC), 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.⁵ 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 variance account opening 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 January, and 12/12 of the annual results to December.

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.

⁵ 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 Entegrus (MPDC).

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 Entegrus as a whole are shown in Table 1; and
- The adjustments to verified final 2011, 2012, and 2013 results for Entegrus as a whole are shown in Table 2.6

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 persistence of 2011, 2012, and 2013 CDM program results and adjustments into 2014. The IESO has provided Entegrus with persistence data for all results and adjustments. Persistence values for some programs were missing for the 2013 adjustments and the updates to 2012 adjustments provided with the 2014 final results. The missing values were estimated by applying the persistence decline rate for the same program during the same year. If 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.

The IESO provided 2011 results for Chatham-Kent Hydro and Middlesex Power Distribution Corporation separately, but provided 2012, 2013, and 2014 results and 2011, 2012, and 2013 adjustments for Entegrus as a whole. As the subsets of Entegrus' service territory that were previously Chatham-Kent Hydro and Middlesex Power Distribution Corporation have different rate classes and rates, they must be handled as separate rate zones for lost revenue purposes. The percentages of load in each rate class for each year were used to allocate the results and adjustments between the previous service territories of Chatham-Kent Hydro and Middlesex Power Distribution Corporation. The percentage allocation of load (in kW or kWh, depending on the billing units of each rate class) by rate class for the

⁶ Verified 2011-2014 Final Results Report for Entegrus. Independent Electricity System Operator. September 1, 2015.

previous service territories of Chatham-Kent Hydro and Middlesex Power Distribution Corporation is shown in Tables A-2 (2013) and A-3 (2014) in Appendix A. Where rate classes match, the totals do not always add up to 100%, as Entegrus also includes two very small additional amalgamated previous service territories of Dutton and Newbury. The populations in both Dutton and Newbury are so small that it was assumed that they did not significantly contribute to CDM results.

Street lighting project

Between August 2014 and October 2014, the Town of Parkhill undertook a project under the Retrofit Program to retrofit streetlights to a more energy efficient light emitting diode (LED) technology. The retrofit was undertaken incrementally over the course of the project. Entegrus (MPDC) worked with the Town of Parkhill to calculate the reduction in load from street lighting upgrades on a regular basis over the course of the project.

The IESO has included the calculated kilowatt hours (kWh) of energy savings from the street lighting project in Entegrus' 2014 results. These values are included in the table below:

Year	Gross savings (kWh)	Net to gross ratio	Net savings (kWh)
2014	26,806	0.73	19,568

The street lighting account is billed based on kilowatts (kW) of demand. The actual billed kW for December 2014 and the associated reduction from the November 2014 baseline value are shown in the table below:

Month	Billed kW	Gross energy savings (kW)	Net to gross ratio	Net energy savings (kW)
Nov-14	51.6			
Dec-14	22.49	29.11	0.72	20.96
2014 Total				20.96

As the street lighting rate class is billed by kW, the calculated kWh savings from the retrofit project do not impact Entegrus' revenue. Thus, the calculated kWh of savings have been manually removed from the 2014 results for lost revenue calculations. The actual lost revenue from the street lighting retrofit project have been calculated directed by multiplying the demand reduction from the project each month by the appropriate rate.

Allocating results to rate classes

Entegrus staff 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 Entegrus (MPDC) has no program results.

Entegrus (MPDC) 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 Entegrus (MPDC) are:

- Residential (kWh)
- GS < 50 kW (kWh)
- GS 50 to 4,999 kW (kW)
- Large Use (kW)
- Unmetered Scattered Load (kWh)
- Sentinel Lighting (kW)
- Street Lighting (kW)
- MicroFIT Generator (N/A).

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

Entegrus (MPDC)'s last cost of service application was filed in 2006. 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 energy savings or demand reduction reported for Entegrus (MPDC) 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, with adjustments for results that do not affect revenue provides the overall impact of CDM on load by rate class.

Table B-5 in Appendix B shows the impact of CDM on load by rate class in 2013 from 2013 adjustments.

Table B-6 in Appendix B shows the persisting impact of CDM on load by rate class in 2014 from programs in 2011-2013.

Table B-7 in Appendix B shows the impact of CDM on load by rate class in 2014 from 2014 programs.

Distribution rates

The distribution rates that impact lost revenue for each rate class for Entegrus (MPDC) 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 2013 to 2014 time period.

Lost revenues

The lost revenues for 2013 and 2014 by rate class for Entegrus (MPDC) calculated from adjustments to 2013 results, persistence into 2014 from 2011-2013 program results, and final 2014 CDM program results are shown in Table C-2 in Appendix C. The lost revenue for 2013 is based on the adjustments to 2013 CDM program results allocated by rate class and multiplied by the 2013 rate for that rate class. The lost revenue for 2014 is based on the 2014 CDM program results plus the persistence of the 2011 to 2013 program results and adjustments in 2014 allocated by rate class and multiplied by the 2014 rate for that rate class. The breakdown of these amounts by rate class is also shown in Table C-2.

This report accounts for lost revenues resulting from 2013 adjustments to results in 2013, results in 2014 from 2014 programs, and results persisting in 2014 from programs delivered in 2011, 2012 and 2013. Previous lost revenues were dealt with in earlier proceedings. The lost revenue for 2014 and 2013 is based on final verified results provided by the IESO.

Carrying charges

The monthly carrying charges by rate class on Entegrus (MPDC)'s lost revenue variance are shown in 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 Entegrus (MPDC) that includes results from CDM programs in 2014 and adjustments to 2013 results in 2013 is \$24,869.80. The total carrying charges on this LRAMVA balance accumulated to April 30, 2016 are \$564.49. These balances are attributable to individual rate classes according to the following table:

Rate class	LRAMVA	Carrying charges	Total
Residential	\$14,369.12	\$324.65	\$14,693.77
GS < 50 kW	\$3,701.04	\$84.58	\$3,785.62
GS 50 to 4,999 kW	\$6,735.99	\$153.56	\$6,889.55
Large Use	\$51.34	\$1.24	\$52.57
Street Lighting	\$12.32	\$0.46	\$12.78
Totals	\$24,869.80	\$564.49	\$25,434.29

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

Appendix A.CDM results reported by the IESO

			Incremer	ntal Activity	ogram Level N	Net Inc	Year remental Peak demand savin				t Incremental E		(kWh) specified reporti	(exclud	ified Progress to Targe les DR) 2011-2014 Net
Initiative	Unit		reportin	ng period)			specified repo	orting period)			per	iod)		2014 Net Annual Peak Demand Savings (kW	Cumulative Energy Savings (kWh)
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	2014
C onsumer Program			ı	1			1	1	1			ı			
Appliance Retirement	Appliances	421	301	182	189	24	18	12	13	177,892	119,701	76,967	82,745	66	1,307,148
Appliance Exchange	Appliances	32	28	35	64	3	4	7	13	3,098	7,322	12,930	23,644	25	81,705
HVAC Incentives	E quipment	1,040	870	838	994	318	182	160	188	569,794	303,127	264,990	344,593	848	4,063,129
Conservation Instant Coupon Booklet	Items	3,719	223	2,514	7,463	9	2	4	15	136,065	10,104	55,697	203,469	29	889,432
Bi-Annual Retailer Event	Items	6,880	7,666	6,827	34,865	12	11	9	58	212,360	193,530	124,145	888,122	90	2,566,444
R etailer C o-op	Items	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential Demand Response	Devices	232	0	765	1,697	130	0	341	625	336	0	603	0	625	940
Residential Demand Response (IHD)	Devices	0	0	765	1,683	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						495	216	533	912	1,099,545	633,784	535,332	1,542,573	1,683	8,908,798
Business Program															
R etrofit	Projects	43	94	100	190	112	711	458	838	520,887	4,149,424	2,612,541	5,046,300	2,069	24,615,253
Direct Install Lighting	Projects	53	253	117	110	58	201	134	109	144,062	782,496	466,827	394,100	488	4,200,978
Building Commissioning	Buildings	0	0	0	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	0	0	0
E nergy Audit	Audits	0	0	2	0	0	0	0	0	0	0	0	0	0	0
S mall Commercial Demand Response	Devices	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Commercial Demand Response (IHD		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Demand Response 3	Facilities	1	1	1	1	68	68	69	47	2,636	984	917	0	47	4,536
Business Program Total			l .			237	980	661	994	667,585	4,932,904	3,080,285	5,440,400	2,604	28,820,767
Industrial Program										001,000	.,,		2,112,122	-,	
Process & System Upgrades	Projects	0	0	0	1	0	0	0	333	0	0	0	3,316,500	333	3,316,500
Monitoring & Targeting	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Manager	Projects	0	4	4	5	0	141	101	23	0	246,600	176,580	314,228	265	1,407,188
Retrofit	Projects	4	0	0	0	10	0	0	0	70,196	0	0	0	10	280,785
Demand Response 3	Facilities	2	0	1	5	754	0	0	677	44,275	0	0	0	677	44,275
Industrial Program Total	i aciiiues					765	141	101	1,032	114,471	246,600	176,580	3,630,728	1,285	5,048,749
ilidustiai Fiografii Totai						703	141	101	1,032	114,471	240,000	170,380	3,030,728	1,283	3,048,743
Home Assistance Program Home Assistance Program	Homes	0	169	1,201	173	0	18	58	18	0	228,459	773,555	172,172	92	2,383,581
Home Assistance Program Total	nomes	U	109	1,201	1/3	0	18	58	18	0	228,459	773,555 773,555	172,172	92	2,383,581
Trome Assistance Program Total						U	18	38	18	U	220,439	773,333	1/2,1/2	92	2,363,361
Aboriginal Program		0	0	0	0	0	0		0	0	0	0	0	0	0
Home Assistance Program	Homes			-	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															
E lectricity R etrofit Incentive P rogram	Projects	18	0	0	0	111	0	0	0	707,984	0	0	0	111	2,831,935
High Performance New Construction	Projects	0	0	0	0	1	1	0	0	2,786	791	0	0	1	13,519
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	,					112	1	0	0	710,770	791	0	0	113	2,845,454
Other										-,					, -, -,
Program Enabled Savings	Projects	0	0	0	1	0	0	0	45	0	0	0	134,467	45	134,467
													<u> </u>		•
Time-of-Use Savings	Homes	0	0	0	n/a	0	0	0	499	0	0	0	0	499	0
LDC Pilots	Projects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O ther Total						0	0	0	544	0	0	0	134,467	544	134,467
Adjustments to 2011 Verified Results							-26	0	0		-3,240	0	0	-27	-14,890
Adjustments to 2012 Verified Results								21	16			177,421	133,802	37	1,286,931
4 diverse and 4- 2042 Maniferd Describe									107				686,764	107	1,378,182
Adjustments to 2013 Verified Results						657	1.288	944	2.152	2.545.124	6,041,553	4,564,232	10.920.340	4.972	48.092.064
					,			,,	984	1,520	0		49,751		
Energy Efficiency Total						952	68							1 3/19	
Energy Efficiency Total Demand Response Total (Scenario 1)	Results Total					952	-26	409	1,349	47,247			_	1,349	
Energy Efficiency Total Demand Response Total (Scenario 1) Adjustments to Previous Years' Verified						0	-26	21	123	0	-3,240	177,421	820,565	118	2,650,223
Energy Efficiency Total Demand Response Total (Scenario 1) Adjustments to Previous Years' Verified OPA-Contracted LDC Portfolio Total (ir	nc. Adjustments)			for the contract of the contra	Marked "	0 1,609	-26 1,329					177,421 4,743,174	820,565 11,740,906	118 6,438	2,650,223 50,792,039
Energy Efficiency Total Demand Response Total (Scenario 1) Adjustments to Previous Years' Verified	nc. Adjustments) urces for each year re	epresent the savin	gs from all activ	re facilities or de	v *Includes adjustm R esults presented	0 1,609 ents after Final Re	-26 1,329 ports were issued	21 1,374	123 3,624	0 2,592,371	-3,240	177,421 4,743,174	820,565	118	2,650,223

Initiative	Unit		Incremental A	Table 2: Adjustments to ENTEGRUS Net Verifie Incremental Activity (new program activity occurring within the specified reporting period)			e to Variances mental Peak D emand savings pecified reporti	emand Saving from activity v			ncremental Ener savings from ac reporting p	tivity within the			ified Progress to Target les DR) 2011-2014 Net Cumulative Energy
		2011*	2012*	2013*	2014	2011	2012	2013	2014	2011	2012	2013	2014	2014	Savings (kWh) 2014
C onsumer P rogram															
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	-145	22	28		-39	4	6		-69,288	7,786	10,288		-29	-233,219
Conservation Instant Coupon Booklet	Items	59	0	8		0	0	0		1,992	0	170		0	8,308
Bi-Annual Retailer Event	Items	591	0	0		1	0	0		15,778	0	0		1	63,111
R etailer C o-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						-38	4	6		-51,519	7,786	10,458		-28	-161,801
Business Program															
Retrofit	Projects	4	20	14		10	27	77		41,693	260,823	485,650		113	1,917,383
Direct Install Lighting	Projects	2	4	0		2	3	0		6,585	10,883	0		4	57,061
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	0	0	2		0	0	18		0	0	96,966		18	193,932
S mall Commercial Demand Response	Devices	0	0	0		0	0	0		0	0	0		0	0
S mall 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						12	30	95		48,278	271,706	582,615		135	2,168,376
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	2	2		0	38	0		0	284,310	20,935		1	453,531
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	1		-			0	38	0		0	284,310	20,935		1	453,531
Home Assistance Program												1,111			,
Home Assistance Program	Homes	0	6	64		0	1	7		0	12,342	77,409		9	190,117
Home Assistance Program Total	1					0	1	7		0	12,342	77,409		9	190,117
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	Projects	0	U			0	0	0		0	0	0		0	0
						U	U	U		U				U	U
Pre-2011 Programs completed in 2011				_		-		_		_	1				
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						-26				-3,240				-27	-14,890
Adjustments to 2012 Verified Results							74				576,144			37	1,286,931
Adjustments to 2013 Verified Results	D It-							108				691,418		107	1,378,182
Total Adjustments to Previous Years' Verified I	n es uits					-26	74	108		-3,240	576,144	691,418		118	2,650,223

Activity and savings for Demand Response resources for each year represer 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 years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented in the implementation years' results shown in Table 1 as the information presented above is presented above in Table 1 as the information presented above is presented above in Table 1 as the information presented above is presented above in Table 1 as the information presented above in Table 1 as the inf

Table A-1: Persistence in 2014 of results from previous years for Entegrus

	2011 results and	d adjustments	2012 results an	d adjustments	2013 ı		2013 adj	
# Initiative	Incremental Peak Demand Savings (kW)		Incremental Peak Demand Savings (kW)		Peak	Incremental Energy Savings (kWh)	Incremental Peak Demand Savings (kW)	Incremental Energy Savings (kWh)
Consumer Program	(1.77)	(11111)	(,	(11111)	sarings (arr)	(11111)	sarings (arr)	(11111)
1 Appliance Retirement	24	177,689	18	119,701	12	76,967		
		941	4	7,322	7	12,930		
2 Appliance Exchange 3 HVAC Incentives	1 279	500,506	186	7,322 310,912	160	264,990	6	10,288
	2/9	300,300	100	310,912	100	204,990	O	10,200
4 Conservation Instant Coupon Booklet	9	138,057	2	10,104	4	55,697	0	170
5 Bi-Annual Retailer Event	13	228,138	11	193,530	9	124,145		
6 Retailer Co-Op								
7 Residential Demand								
Response								
(switch/pstat)								
8 Residential Demand								
Response (IHD)								
9 Residential New								
Construction								
Business Program	100	562.500	700	1006000	4.42	2 5 6 5 5 2 2		476.040
10 Retrofit	122	562,580	702	4,286,038	443	2,565,528	74	476,910
11 Direct Install Lighting	49	119,030	199	772,555	134	466,827		
12 Building								
Commissioning								
13 New Construction								
14 Energy Audit							18	96,966
15 Small Commercial								
Demand Response								
(switch/pstat)								
16 Small Commercial								
Demand Response								
(IHD)								
17 Demand Response 3								
Industrial Program								
18 Process & System								
Upgrades								
19 Monitoring &								
Targeting								
20 Energy Manager			143	266,220	101	176,580	0	20,935
21 Retrofit	10	70,196						
22 Demand Response 3								
Home Assistance Program								
23 Home Assistance			18	229,021	57	752,478	7	75,300
Program			10	229,021	37	732,470	/	73,300
Pre-2011 Programs compl	eted in 2011							
24 Electricity Retrofit	111	707,984						
Incentive Program		, 0, ,504						
25 High Performance	1	2,786	1	791				
New Construction	ı	2,700	1	7 31				
Totals	618	2,507,907	1,283	6,196,195	928	4,496,143	105	680,569

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

Table A-2: Percentage allocation of load by rate class for the previous service territories of Chatham-Kent Hydro and Middlesex Power Distribution Corporation for 2013

				Ch	natham-Kent H	ydro				
	Residential	GS < 50 kW	GS 50 to 999 kW	GS 1,000 TO 4,999 kW	Intermediate with Self Generation	Unmetered Scattered Load	Standby Power	Sentinel Lighting	Street Lighting	Microfit Generator
Allocation	77%	79%	79%	79%	100%	74%	100%	89%	79%	
				Middlesex Po	wer Distributi	on Corporation	ı			
	Residential	GS < 50 kW	GS 50 to 4,999 kW	Large Use		Unmetered Scattered Load		Sentinel Lighting	Street Lighting	MicroFIT Generator
Allocation	21%	17%	21%	100%		26%		11%	19%	

Note: The percentage allocation for each rate class by previous service service territory is based on the proportion of Entegrus' total loss-adjusted billed kWh or billed kW.

Table A-3: Percentage allocation of load by rate class for the previous service territories of Chatham-Kent Hydro and Middlesex Power Distribution Corporation for 2014

		, , , , , , , , , , , , , , , , , , ,	·	Cha	tham-Kent Hy	dro				
	Residential	GS < 50 kW	GS 50 to 999 kW	GS 1,000 TO 4,999 kW	Intermediate with Self Generation	Unmetered Scattered Load	Standby Power	Sentinel Lighting	Street Lighting	Microfit Generator
Allocation	78%	81%	74%	100%	100%	74%	100%	89%	78%	0%
				Middlesex Pov	ver Distributio	n Corporation				
	Residential	GS < 50 kW	GS 50 to 4,999 kW	Large Use		Unmetered Scattered Load		Sentinel Lighting	Street Lighting	MicroFIT Generator
Allocation	20%	16%	26%	100%		26%		11%	19%	0%

Note: The percentage allocation for each rate class by previous service service territory is based on the proportion of Entegrus' total loss-adjusted billed kWh or billed kW.

Appendix B. CDM results breakdown by rate class

Table B-1: Percentage allocation by rate class for 2011 results and adjustments for Middlesex Power Distribution Corporation

	Unmetered							
# Initiative	Residential	GS < 50 kW	GS 50 to 4,999 kW	Large Use	Scattered Load	Sentinel Lighting	Street Lighting	MicroFIT Generator
Consumer Program			,	0		0 0	0 0	
1 Appliance Retirement	100%							
2 Appliance Exchange	100%							
3 HVAC Incentives	100%							
	100%							
4 Conservation Instant Coupon Booklet	100%							
5 Bi-Annual Retailer Event	100%							
6 Retailer Co-op	100%							
7 Residential Demand Response	100%							
8 Residential New Construction	100%							
Business Program								
9 Efficiency: Equipment		(20/	2.70/					
Replacement		63%	37%					
10 Direct Install Lighting		100%						
11 Existing Building								
Commissioning								
Incentive								
12 New Construction and								
Major Renovation								
Incentive								
13 Energy Audit								
14 Commercial Demand								
Response (part of the Residential program								
schedule)								
15 Demand Response 3								
(part of the Industrial								
program schedule)								
Industrial Program								
16 Process & System								
Upgrades '								
17 Monitoring &								
Targeting								
18 Energy Manager								
19 Efficiency: Equipment								
Replacement								
Incentive (part of the								
C&I program								
schedule)								
20 Demand Response 3								
Home Assistance Program								
21 Home Assistance Program	100%							
Pre-2011 Programs comple	eted in 2011							
22 Electricity Retrofit		220/	220/	2.40/				
Incentive Program		33%	33%	34%				
23 High Performance								
New Construction			50%	50%				
Source: Entegrus								

Table B-2: Percentage allocation by rate class for 2012 results and adjustments for Middlesex Power Distribution Corporation

	Unmetered							
		GS < 50	GS 50 to		Scattered	Sentinel	Street	MicroFIT
# Initiative	Residential	kW	4,999 kW	Large Use	Load	Lighting	Lighting	Generato
Consumer Program								
1 Appliance Retirement	100%							
2 Appliance Exchange	100%							
3 HVAC Incentives	100%							
4 Conservation Instant	100%							
Coupon Booklet	.0070							
5 Bi-Annual Retailer	100%							
Event								
6 Retailer Co-Op	100%							
7 Residential Demand								
Response	100%							
(switch/pstat)								
8 Residential Demand	100%							
Response (IHD)	100 /6							
9 Residential New	1000/							
Construction	100%							
Business Program								
10 Retrofit		20%	80%					
11 Direct Install Lighting		100%						
12 Building								
Commissioning								
13 New Construction								
14 Energy Audit								
15 Small Commercial								
Demand Response								
(switch/pstat)								
16 Small Commercial								
Demand Response								
(IHD)								
17 Demand Response 3								
Industrial Program								
18 Process & System								
Upgrades								
19 Monitoring &								
Targeting								
20 Energy Manager			100%					
21 Retrofit				100%				
22 Demand Response 3								
Home Assistance Program	l							
23 Home Assistance								
Program	100%							
Pre-2011 Programs compl	eted in 2011							
24 Electricity Retrofit								
Incentive Program								
25 High Performance								
New Construction			100%					
Source: Entegrus								

Source: Entegrus

Table B-3: Percentage allocation by rate class for 2013 results and adjustments for Middlesex Power Distribution Corporation

						Unmetered			
			GS < 50	GS 50 to		Scattered	Sentinel	Street	MicroFIT
#	Initiative	Residential	kW	4,999 kW	Large Use	Load	Lighting	Lighting	Generator
	nsumer Program								
	Appliance Retirement	100%							
2	2 Appliance Exchange	100%							
3	B HVAC Incentives	100%							
4	Conservation Instant	100%							
	Coupon Booklet	100%							
1	Bi-Annual Retailer	100%							
	Event	100%							
6	Retailer Co-Op	100%							
7	Residential Demand								
	Response	100%							
	(switch/pstat)								
8	Residential Demand	4.000/							
	Response (IHD)	100%							
Ç	Residential New								
	Construction	100%							
Βι	siness Program								
) Retrofit		33%	54%	13%				
11	Direct Install Lighting		100%						
	P. Building								
	Commissioning								
13	New Construction								
	Fnergy Audit			100%					
	5 Small Commercial								
	Demand Response								
	(switch/pstat)								
16	5 Small Commercial								
	Demand Response								
	(IHD)								
17	Demand Response 3								
	dustrial Program								
18	Process & System								
	Upgrades								
19	Monitoring &								
	Targeting								
20) Energy Manager								
	Retrofit								
22	P. Demand Response 3								
_	ome Assistance Program	1							
	Home Assistance								
	Program	100%							
Co	urce: Entegrus								

Source: Entegrus

Table B-4: Percentage allocation by rate class for 2014 results for Middlesex Power Distribution Corporation

			CC = 0 +		Unmetered	Ct'	C1 1	141. FIT
# Initiative	Residential	GS < 50 kW	GS 50 to 4.999 kW	Large Use	Scattered Load	Sentinel Lighting	Street Lighting	MicroFIT Generator
Consumer Program	1100100111101	00 100 1111	1,555 1111	24.80 000	2000		88	Concluto
1 Appliance Retirement	100%							
2 Appliance Exchange	100%							
3 HVAC Incentives	100%							
4 Conservation Instant Coupon Booklet	100%							
5 Bi-Annual Retailer	100%							
Event								
6 Retailer Co-Op	100%							
7 Residential Demand								
Response	100%							
(switch/pstat)								
8 Residential Demand	100%							
Response (IHD)	100 /6							
9 Residential New	1000/							
Construction	100%							
Business Program								
10 Retrofit		1%	14%					
11 Direct Install Lighting		100%						
12 Building								
Commissioning								
13 New Construction								
14 Energy Audit			100%					
15 Small Commercial			.0070					
Demand Response								
(switch/pstat)								
16 Small Commercial								
Demand Response								
(IHD)								
17 Demand Response 3								
Industrial Program								
18 Process & System								
Upgrades								
19 Monitoring &								
Targeting								
20 Energy Manager								
21 Retrofit								
22 Demand Response 3			14%					
Home Assistance Program								
23 Home Assistance	100%							
Program	100%							
Other								
29 Program Enabled			1.000/					
Savings			100%					
Source: Entegrus. Rate clas	s allocation i	nercentage tot	als may not	add up to 100	% in cases w	horo roculte s	re allocated	to rato

Source: Entegrus. Rate class allocation percentage totals may not add up to 100% in cases where results are allocated to rate classes across rate zones based on specific project results. The total for both rate zones will add up to 100%.

Table B-5: Impact of CDM on load in 2013 by rate class for 2013 adjustments for Middlesex Power Distribution Corporation

	·				Unmetered			
		GS < 50	GS 50 to		Scattered	Sentinel	Street	MicroFIT
# Initiative	Residential	kW	4,999 kW	Large Use	Load	Lighting	Lighting	Generator
Units	kWh	kWh	kW	kW	kWh	kW	kW	
Consumer Program								
1 Appliance Retirement								
2 Appliance Exchange								
3 HVAC Incentives	2,158							
4 Conservation Instant	36							
Coupon Booklet								
5 Bi-Annual Retailer								
Event								
6 Retailer Co-Op								
7 Residential Demand								
Response								
(switch/pstat)								
8 Residential Demand								
Response (IHD)								
9 Residential New								
Construction								
Business Program								
10 Retrofit		27,523	104	120				
11 Direct Install Lighting								
12 Building								
Commissioning								
13 New Construction								
14 Energy Audit			44					
15 Small Commercial								
Demand Response								
(switch/pstat)								
16 Small Commercial								
Demand Response								
(IHD)								
17 Demand Response 3								
Industrial Program								
18 Process & System								
Upgrades								
19 Monitoring &								
Targeting								
20 Energy Manager								
21 Retrofit								
22 Demand Response 3								
Home Assistance Program	1							
23 Home Assistance	16,239							
Program	10,239							
Total	18,433	27,523	148	120				
Note: Impact on load is ca	Iculated from	the 2013 ac	liustments to	net incremer	ntal neak dema	nd or not in	cremental ca	vinge in

Note: Impact on load is calculated from the 2013 adjustments to net incremental peak demand or net incremental savings in Table 2 from the IESO (Appendix A). The demand or savings results are used, depending on how that rate class is billed for distribution service, and the Entegrus rate class load totals are allocated by rate zone based on the percentages in Table A-2 and by rate class based on the percentages in Table B-3. Where billing is by monthly demand (kW), the annual demand is 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 in 2014 by rate class from the persistence of 2011-2013 program results (including adjustments) for Middlesex Power Distribution Corporation

# Initiative	Residential	GS < 50 kW	GS 50 to 4,999 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	MicroFIT Generator
Units	kWh	kWh	kW	kW	kWh	kW	kW	Scherato
Consumer Program	KTVII	KTVII	IX Y Y	N. V. V	KTVII	N V V	N.V.V	
1 Appliance Retirement	88,538							
2 Appliance Exchange	4,472							
B HVAC Incentives	195,034							
Conservation Instant								
Coupon Booklet	42,233							
Bi-Annual Retailer Event	109,300							
Retailer Co-Op								
Residential Demand								
Response								
(switch/pstat)								
Residential Demand								
Response (IHD)								
Residential New								
Construction								
Business Program								
0 Retrofit		351,405	2,182	807				
1 Direct Install Lighting		214,488	•					
2 Building		,						
Commissioning								
3 New Construction								
4 Energy Audit			44					
5 Small Commercial								
Demand Response								
(switch/pstat)								
6 Small Commercial								
Demand Response								
(IHD)								
7 Demand Response 3								
ndustrial Program								
8 Process & System								
Upgrades								
9 Monitoring &								
Targeting								
20 Energy Manager			341					
21 Retrofit								
22 Demand Response 3								
Home Assistance Program								
23 Home Assistance	217.017							
Program	217,817							
Pre-2011 Programs comple	ted in 2011							
24 Electricity Retrofit		27.00-						
Incentive Program		37,095	77	79				
25 High Performance			_					
New Construction			2					
Total	657,394	602,988	2,645	886				

Note: Impact on load is calculated from the persistence of 2011-2013 results and adjustments into 2014 in Table A-1. The demand or savings results are used, depending on how that rate class is billed for distribution service, and the Entegrus rate class load totals are allocated by rate zone based on the percentages in Table A-3 and by rate class based on the percentages in Tables B-1, B-2, and B-3. Results and adjustments for 2011 were provided by the OPA for Chatham-Kent Hydro and Middlesex Power Distribution separately, but are shown consolidated in Table A-1 for consistency. Where billing is by monthly demand (kW), the annual demand is 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 2014 programs for Middlesex Power Distribution Corporation

#	Initiative	Residential	GS < 50 kW	GS 50 to 4,999 kW	Large Use	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	MicroFIT Generator
	Units	kWh	kWh	kW	kW	kWh	kW	kW	
	nsumer Program								
	Appliance Retirement	16,570							
	2 Appliance Exchange	4,735							
	B HVAC Incentives	69,007							
	Conservation Instant Coupon Booklet	40,746							
_	5 Bi-Annual Retailer Event	177,853							
6	Retailer Co-Op								
7	Residential Demand								
	Response								
	(switch/pstat)								
8	Residential Demand								
	Response (IHD)								
ç	Residential New								
	Construction								
	siness Program								
	Retrofit		63,149	1,368				21	
	Direct Install Lighting		62,215						
12	2 Building								
	Commissioning								
	New Construction								
	Energy Audit								
15	Small Commercial								
	Demand Response								
	(switch/pstat)								
16	Small Commercial								
	Demand Response								
4 -	(IHD)								
	Demand Response 3								
	dustrial Program								
16	3 Process & System								
1.0	Upgrades								
15	Monitoring &								
20	Targeting								
) Energy Manager Retrofit								
	P. Demand Response 3			283					
	ome Assistance Program	•		203					
	Home Assistance	<u> </u>							
23		34,479							
Ci	Program her								
_	Program Enabled								
25	Savings			137					
	Total	343,391	125,364	1,789				21	
_	eto: Impact on load is sa								1 1500

Note: Impact on load is calculated from net incremental peak demand or net incremental savings in Table 1 from the IESO (Appendix A). The demand or savings results are used, depending on how that rate class is billed for distribution service, and the Entegrus rate class load totals are allocated by rate zone based on the percentages in Table A-3 and by rate class based on the percentages in Table B-4. Where billing is by monthly demand (kW), the annual demand is 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 Middlesex Power Distribution Corporation

Rate class	Billing unit	2013	2014
Residential	kWh	0.0140	0.0141
GS < 50 kW	kWh	0.0048	0.0049
GS 50 to 4,999 kW	kW	1.4514	1.4708
Large Use	kW	0.0496	0.0512
Unmetered Scattered Load	kWh	0.0052	0.0053
Sentinel Lighting	kW	0.9915	1.0052
Street Lighting	kW	0.5794	0.5876
MicroFIT Generator	NA		

Notes: Distribution rates are from OEB approved rate schedules averaged from the rate year to the calendar year. Only the Distribution Volumetric Rate and the Rate Rider for Application of Tax Change are used.

Table C-2: Lost revenues in 2013 from 2013 adjustments and in 2014 from 2011-2014 results and adjustments by rate class for Middlesex Power Distribution Corporation

Year of lost				GS 50 to 4,999		Street	
revenue	Basis for loss	Residential	GS < 50 kW	kW	Large Use	Lighting	Total
2013	2013 adjustments	\$258.06	\$132.11	\$214.73	\$5.96		\$610.87
	2011 persistence	\$2,841.02	\$559.31	\$321.15	\$4.04		\$3,725.52
2014	2012 persistence	\$2,367.07	\$1,157.61	\$2,477.45			\$6,002.13
2014	2013 persistence	\$4,061.17	\$1,237.72	\$1,091.50	\$41.34		\$6,431.72
	2014 results	\$4,841.81	\$614.29	\$2,631.16		\$12.32	\$8,099.56
Total		\$14,369.12	\$3,701.04	\$6,735.99	\$51.34	\$12.32	\$24,869.80

Note: Values are the product of the actual lost loads (Tables B-5, B-6, and B-7), and the rates (Table C-1) for each rate class.

There is no lost revenue associated with rate classes not included in this table.

Table C-3: Monthly carrying charges by rate class for Middlesex Power Distribution Corporation

			GS 50 to 4,999			
Month	Residential	GS < 50 kW	kW	Large Use	Street Lighting	Total
Jan-13						
Feb-13	\$0.03	\$0.01	\$0.02	\$0.00		\$0.06
Mar-13	\$0.05	\$0.03	\$0.04	\$0.00		\$0.12
Apr-13	\$0.08	\$0.04	\$0.07	\$0.00		\$0.19
Total for Rate year 2012	\$0.16	\$0.08	\$0.13	\$0.00		\$0.37
May-13	\$0.11	\$0.05	\$0.09	\$0.00		\$0.25
Jun-13	\$0.13	\$0.07	\$0.11	\$0.00		\$0.31
Jul-13	\$0.16	\$0.08	\$0.13	\$0.00		\$0.37
Aug-13	\$0.18	\$0.09	\$0.15	\$0.00		\$0.44
Sep-13	\$0.21	\$0.11	\$0.18	\$0.00		\$0.50
Oct-13	\$0.24	\$0.12	\$0.20	\$0.01		\$0.56
Nov-13	\$0.26	\$0.13	\$0.22	\$0.01		\$0.62
Dec-13	\$0.29	\$0.15	\$0.24	\$0.01		\$0.69
Jan-14	\$0.32	\$0.16	\$0.26	\$0.01		\$0.75
Feb-14	\$1.76	\$0.53	\$0.93	\$0.01		\$3.22
Mar-14	\$3.20	\$0.89	\$1.59	\$0.02		\$5.70
Apr-14	\$4.64	\$1.25	\$2.26	\$0.02		\$8.17
Total for Rate year 2013	\$11.65	\$3.72	\$6.49	\$0.10		\$21.96
, May-14	\$6.08	\$1.62	\$2.93	\$0.03		\$10.65
Jun-14	\$7.52	\$1.98	\$3.59	\$0.03		\$13.12
Jul-14	\$8.96	\$2.35	\$4.26	\$0.04		\$15.60
Aug-14	\$10.40	\$2.71	\$4.92	\$0.04		\$18.07
Sep-14	\$11.84	\$3.08	\$5.59	\$0.04		\$20.55
Oct-14	\$13.28	\$3.44	\$6.25	\$0.05		\$23.02
Nov-14	\$14.72	\$3.81	\$6.92	\$0.05		\$25.50
Dec-14	\$16.16	\$4.17	\$7.59	\$0.06		\$27.98
Jan-15	\$17.60	\$4.53	\$8.25	\$0.06	\$0.02	\$30.47
Feb-15	\$17.60	\$4.53	\$8.25	\$0.06	\$0.02	\$30.47
Mar-15	\$17.60	\$4.53	\$8.25	\$0.06	\$0.02	\$30.47
Apr-15	\$13.17	\$3.39	\$6.17	\$0.05	\$0.01	\$22.80
Total for Rate year 2014	\$166.58	\$43.87	\$79.47	\$0.67	\$0.06	\$290.65
May-15	\$13.17	\$3.39	\$6.17	\$0.05	\$0.03	\$22.82
Jun-15	\$13.17	\$3.39	\$6.17	\$0.05	\$0.03	\$22.82
Jul-15	\$13.17	\$3.39	\$6.17	\$0.05	\$0.03	\$22.82
Aug-15	\$13.17	\$3.39	\$6.17	\$0.05	\$0.03	\$22.82
Sep-15	\$13.17	\$3.39	\$6.17	\$0.05	\$0.03	\$22.82
Oct-15	\$13.17	\$3.39	\$6.17	\$0.05	\$0.03	\$22.82
Nov-15	\$13.17	\$3.39	\$6.17	\$0.05	\$0.03	\$22.82
Dec-15	\$13.17	\$3.39	\$6.17	\$0.05	\$0.03	\$22.82
Jan-16	\$13.17	\$3.39	\$6.17	\$0.05	\$0.03	\$22.82
Feb-16	\$13.17	\$3.39	\$6.17	\$0.05	\$0.03	\$22.82
Mar-16	\$13.17	\$3.39	\$6.17	\$0.05	\$0.03	\$22.82
Apr-16	\$13.17	\$3.39	\$6.17	\$0.05	\$0.03	\$22.82
Total to April 30, 2016	\$324.64	\$84.58	\$153.57	\$1.23	\$0.46	\$564.49

Note: Carrying charges are simple interest (not compound) calculated using rates specified by the OEB at:

 $http://www.ontarioenergyboard.ca/OEB/Industry/Rules+and+Requirements/Rules+Codes+Guidelines+and+Forms/Prescribe\ d+Interest+Rates$

Annual savings are assumed to be distributed equally over the year and carrying charges are applied to the balance in the account each month.

There are no carrying charges associated with rate classes not included in this table.



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ATTACHMENT C

EPI DVA Model

		2010								
USoA	Description		Principal Closing Balance Opening Balance							
USUA	Description		Transactions	ВА	Closing Balance		Transactions	ВА	Closing Balance	Total
GROUP	ONE									
1550	Low Voltage									
1551	Smart Metering Entity Charge									
1568	LRAMVA									
1580	RSVA Wholesale Market									
1584	RSVA Network									
1586	RSVA Connection									
1588	RSVA Power									
1589	RSVA Global									
1590	Disposition and Recovery of Regulatory Assets									
1595	Disposition and Recovery of Regulatory Assets									
	Subtotal	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GROUP	TWO									
1508	Other Regulatory Assets									
	2010 Rebasing	\$173,245.41	\$70,113.08	\$10,326.41	\$233,032.08	\$477.77	\$1,322.07	\$174.96	\$1,624.88	\$234,656.96
	Incremental Capital Contribution (HONI)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	LRAM	\$102,282.00	-\$20,000.00	\$0.00	\$82,282.00	\$1,018.00	\$815.70	\$0.00	\$1,833.70	\$84,115.70
	OEB Cost Assessment	\$26,833.69	\$0.00	\$0.00	\$26,833.69	\$1,722.19	\$214.02	\$0.00	\$1,936.21	\$28,769.90
	One-Time Incremental IFRS Transition Costs	\$131,430.89	\$118,500.00	\$0.00	\$249,930.89	\$429.12	\$1,629.39	\$0.00	\$2,058.51	\$251,989.40
	Pension Contributions	\$29,126.59	\$0.00	\$0.00	\$29,126.59	\$2,867.43	\$232.29	\$0.00	\$3,099.72	\$32,226.31
1518	RCVA Retail	-\$222,972.06	-\$51,792.13	-\$152,680.85	-\$122,083.34	-\$12,187.41	-\$1,069.17	-\$11,144.16	-\$2,112.42	-\$124,195.76
1534	Smart Grid Capital	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1548	RCVA STR	\$150,004.36	\$33,663.74	\$102,572.63	\$81,095.47	\$11,363.46	\$710.54	\$9,008.46	\$3,065.54	\$84,161.01
1555	Smart Meter Capital and Recovery Offset	\$763,978.75	\$0.00	\$75,292.93	\$688,685.82	\$5,931.89	-\$856.44	\$5,075.45	\$0.00	\$688,685.82
1576	CGAAP Accounting Changes	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1582	RSVA One Time	\$50,162.04	\$7,540.13	\$50,162.04	\$7,540.13	\$8,852.27	\$1,541.10	\$8,942.97	\$1,450.40	\$8,990.53
1592	PILs & Tax Variance									
	Shared Tax Savings	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	HST Savings	\$0.00	-\$20,412.87	\$0.00	-\$20,412.87	\$0.00	-\$38.01	\$0.00	-\$38.01	-\$20,450.88
	Subtotal	\$1,204,091.67	\$158,024.82	\$85,673.16	\$1,276,443.33	\$20,474.72	\$4,539.50	\$12,057.68	\$12,956.54	\$1,289,399.87
	Grand Total	\$1,204,091.67	\$158,024.82	\$85,673.16	\$1,276,443.33	\$20,474.72	\$4,539.50	\$12,057.68	\$12,956.54	\$1,289,399.87

						2011				
USoA	Description		Princ	ipal			Intere	est		
OSOA	Description	Opening Balance	Transactions	ВА	Closing Balance	Opening Balance	Transactions	ВА	Closing Balance	Total
GROUP	ONE									
1550	Low Voltage									
1551	Smart Metering Entity Charge									
1568	LRAMVA									
1580	RSVA Wholesale Market									
1584	RSVA Network									
1586	RSVA Connection									
1588	RSVA Power									
1589	RSVA Global									
1590	Disposition and Recovery of Regulatory Assets									
1595	Disposition and Recovery of Regulatory Assets									
	Subtotal	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
GROUP	TWO									
1508	Other Regulatory Assets									
	2010 Rebasing	\$233,032.08	-\$70,800.00	\$0.00	\$162,232.08	\$1,624.88	\$0.00	\$0.00	\$1,624.88	\$163,856.9
	Incremental Capital Contribution (HONI)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
	LRAM	\$82,282.00	-\$73,880.30	\$0.00	\$8,401.70	\$1,833.70	-\$1,330.27	\$0.00	\$503.43	\$8,905.1
	OEB Cost Assessment	\$26,833.69	\$0.00	\$0.00	\$26,833.69	\$1,936.21	\$394.32	\$0.00	\$2,330.53	\$29,164.2
	One-Time Incremental IFRS Transition Costs	\$249,930.89	\$121,477.44	\$0.00	\$371,408.33	\$2,058.51	\$4,554.07	\$0.00	\$6,612.58	\$378,020.9
	Pension Contributions	\$29,126.59	\$0.00	\$0.00	\$29,126.59	\$3,099.72	\$428.16	\$0.00	\$3,527.88	\$32,654.4
1518	RCVA Retail	-\$122,083.34	-\$41,618.48	\$0.00	-\$163,701.82	-\$2,112.42	-\$2,116.79	\$0.00	-\$4,229.21	-\$167,931.0
1534	Smart Grid Capital	\$0.00	\$117,547.26	\$0.00	\$117,547.26	\$0.00	\$1,739.94	\$0.00	\$1,739.94	\$119,287.2
1548	RCVA STR	\$81,095.47	\$27,302.67	\$0.00	\$108,398.14	\$3,065.54	\$1,381.51	\$0.00	\$4,447.05	\$112,845.1
1555	Smart Meter Capital and Recovery Offset	\$688,685.82	\$1,183,397.32	\$0.00	\$1,872,083.14	\$0.00	\$0.00	\$0.00	\$0.00	\$1,872,083.1
1576	CGAAP Accounting Changes	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
1582	RSVA One Time	\$7,540.13	\$0.00	\$0.00	\$7,540.13	\$1,450.40	\$110.81	\$0.00	\$1,561.21	\$9,101.3
1592	PILs & Tax Variance									
	Shared Tax Savings	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
	HST Savings	-\$20,412.87	-\$31,547.23	\$0.00	-\$51,960.10	-\$38.01	-\$452.97	\$0.00	-\$490.98	-\$52,451.0
	Subtotal	\$1,276,443.33	\$1,263,425.91	\$0.00	\$2,539,869.24	\$12,956.54	\$5,161.75	\$0.00	\$18,118.29	\$2,557,987.5
	Grand Total	\$1,276,443.33	\$1,263,425.91	\$0.00	\$2,539,869.24	\$12,956.54	\$5,161.75	\$0.00	\$18,118.29	\$2,557,987.5

						2012				
USoA	Description		Princ	cipal			Inter	est	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$216.47 \$0.00 \$2,724.85 \$0.00 \$12,591.25 \$0.00 \$3,956.04 \$0.00 \$3,463.65 \$0.00 \$6,241.24 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,672.02 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$1,672.02	
OJOA	Description	Opening Balance	Transactions	ВА	Closing Balance	Opening Balance	Transactions	ВА	Closing Balance	Total
GROUP	ONE									
1550	Low Voltage									
1551	Smart Metering Entity Charge									
1568	LRAMVA									
1580	RSVA Wholesale Market									
1584	RSVA Network									
1586	RSVA Connection									
1588	RSVA Power									
1589	RSVA Global									
1590	Disposition and Recovery of Regulatory Assets									
1595	Disposition and Recovery of Regulatory Assets									
	Subtotal	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
GROUP	TWO									
1508	Other Regulatory Assets									
	2010 Rebasing	\$162,232.08	-\$36,715.12	\$0.00	\$125,516.96	\$1,624.88	-\$1,624.88	\$0.00	\$0.00	\$125,516.9
	Incremental Capital Contribution (HONI)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
	LRAM	\$8,401.70	-\$4,794.04	\$0.00	\$3,607.66	\$503.43	-\$286.96	\$0.00	\$216.47	\$3,824.1
	OEB Cost Assessment	\$26,833.69	\$0.00	\$0.00	\$26,833.69	\$2,330.53	\$394.32	\$0.00	\$2,724.85	\$29,558.5
	One-Time Incremental IFRS Transition Costs	\$371,408.33	\$76,593.44	\$0.00	\$448,001.77	\$6,612.58	\$5,978.67	\$0.00	\$12,591.25	\$460,593.0
	Pension Contributions	\$29,126.59	\$0.00	\$0.00	\$29,126.59	\$3,527.88	\$428.16	\$0.00	\$3,956.04	\$33,082.6
1518	RCVA Retail	-\$163,701.82	-\$25,161.44	\$0.00	-\$188,863.26	-\$4,229.21	-\$2,605.90	\$0.00	-\$6,835.11	-\$195,698.3
1534	Smart Grid Capital	\$117,547.26	\$0.00	\$0.00	\$117,547.26	\$1,739.94	\$1,723.71	\$0.00	\$3,463.65	\$121,010.9
1548	RCVA STR	\$108,398.14	\$29,321.55	\$0.00	\$137,719.69	\$4,447.05	\$1,794.19	\$0.00	\$6,241.24	\$143,960.9
1555	Smart Meter Capital and Recovery Offset	\$1,872,083.14	-\$1,411,960.57	\$0.00	\$460,122.57	\$0.00	\$0.00	\$0.00	\$0.00	\$460,122.5
1576	CGAAP Accounting Changes	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
1582	RSVA One Time	\$7,540.13	\$0.00	\$0.00	\$7,540.13	\$1,561.21	\$110.81	\$0.00	\$1,672.02	\$9,212.1
1592	PILs & Tax Variance									
	Shared Tax Savings	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
	HST Savings	-\$51,960.10	-\$31,547.28	\$0.00	-\$83,507.38	-\$490.98	-\$849.80	\$0.00	-\$1,340.78	-\$84,848.1
	Subtotal	\$2,539,869.24	-\$1,372,716.18	\$0.00	\$1,167,153.06	\$18,118.29	\$5,912.12	\$0.00	\$24,030.41	\$1,191,183.4
	Grand Total	\$2,539,869.24	-\$1,372,716.18	\$0.00	\$1,167,153.06	\$18,118.29	\$5,912.12	\$0.00	\$24,030.41	\$1,191,183.4

						2013				
USoA	Description		Princ	ipal			Intere	est		
OSOA	Bescription	Opening Balance	Transactions	ВА	Closing Balance	Opening Balance	Transactions	ВА	Closing Balance	Total
GROUP	ONE									
1550	Low Voltage									
1551	Smart Metering Entity Charge									
1568	LRAMVA									
1580	RSVA Wholesale Market									
1584	RSVA Network									
1586	RSVA Connection									
1588	RSVA Power									
1589	RSVA Global									
1590	Disposition and Recovery of Regulatory Assets									
1595	Disposition and Recovery of Regulatory Assets									
	Subtotal	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
GROUP	TWO									
1508	Other Regulatory Assets									
	2010 Rebasing	\$125,516.96	-\$38,340.00	\$0.00	\$87,176.96	\$0.00	\$0.00	\$0.00	\$0.00	\$87,176.9
	Incremental Capital Contribution (HONI)	\$0.00	\$7,875.33	\$0.00	\$7,875.33	\$0.00	\$29.99	\$0.00	\$29.99	\$7,905.3
	LRAM	\$3,607.66	\$52,342.34	\$0.00	\$55,950.00	\$216.47	-\$216.47	\$0.00	\$0.00	\$55,950.0
	OEB Cost Assessment	\$26,833.69	-\$9,358.73	\$0.00	\$17,474.96	\$2,724.85	-\$320.62	\$0.00	\$2,404.23	\$19,879.1
	One-Time Incremental IFRS Transition Costs	\$448,001.77	\$27,389.56	\$0.00	\$475,391.33	\$12,591.25	\$6,832.25	\$0.00	\$19,423.50	\$494,814.8
	Pension Contributions	\$29,126.59	\$0.00	\$0.00	\$29,126.59	\$3,956.04	\$214.08	\$0.00	\$4,170.12	\$33,296.7
1518	RCVA Retail	-\$188,863.26	-\$20,672.50	\$0.00	-\$209,535.76	-\$6,835.11	-\$2,927.01	\$0.00	-\$9,762.12	-\$219,297.8
1534	Smart Grid Capital	\$117,547.26	-\$111,221.42	\$0.00	\$6,325.84	\$3,463.65	-\$3,457.76	\$0.00	\$5.89	\$6,331.7
1548	RCVA STR	\$137,719.69	\$4,306.35	\$0.00	\$142,026.04	\$6,241.24	\$2,072.50	\$0.00	\$8,313.74	\$150,339.7
1555	Smart Meter Capital and Recovery Offset	\$460,122.57	-\$49,662.60	\$0.00	\$410,459.97	\$0.00	\$0.00	\$0.00	\$0.00	\$410,459.9
1576	CGAAP Accounting Changes	\$0.00	-\$602,340.82	\$0.00	-\$602,340.82	\$0.00	\$0.00	\$0.00	\$0.00	-\$602,340.8
1582	RSVA One Time	\$7,540.13	\$0.00	\$0.00	\$7,540.13	\$1,672.02	\$110.81	\$0.00	\$1,782.83	\$9,322.9
1592	PILs & Tax Variance									
	Shared Tax Savings	\$0.00	-\$787.99	\$0.00	-\$787.99	\$0.00	-\$0.75	\$0.00	-\$0.75	-\$788.7
	HST Savings	-\$83,507.38	-\$31,547.28	\$0.00	-\$115,054.66	-\$1,340.78	-\$1,372.62	\$0.00	-\$2,713.40	-\$117,768.0
	Subtotal	\$1,167,153.06	-\$739,682.49	\$0.00	\$427,470.57	\$24,030.41	\$2,337.77	\$0.00	\$26,368.18	\$453,838.7
	Grand Total	\$1,167,153.06	-\$739,682.49	\$0.00	\$427,470.57	\$24,030.41	\$2,337.77	\$0.00	\$26,368.18	\$453,838.7

						2014						
USoA	Description		Princ	ipal			Intere	est		\$937,670.40 \$ \$25,308.32 \$ \$273,071.80 9 -\$1,308,970.56 \$ \$373,795.70 9 \$1,842,439.88 9 \$1,311,979.74 1 \$2,234,405.95 10 \$29,050.45 10 \$427,693.38 \$ \$5,291,058.30 \$ \$656,625.12 10 \$48,836.96 10 \$16,373.87 11 \$128.44 12 \$20,135.99 13 \$33,724.87 14 \$237,084.24	RRR 2.1.7	Variance
OSOA	Description	Opening Balance	Transactions	ВА	Closing Balance	Opening Balance	Transactions	ВА	Closing Balance	Total	KKK 2.1.7	variance
GROUP	ONE											
1550	Low Voltage	\$795,920.37	\$316,173.87	\$193,841.81	\$918,252.43	\$14,654.43	\$11,910.40	\$7,146.87	\$19,417.97	\$937,670.40	\$937,670.40	\$0
1551	Smart Metering Entity Charge	\$28,530.87	-\$3,200.67	\$0.00	\$25,330.20	-\$11.17	-\$10.71	\$0.00	-\$21.88	\$25,308.32	\$25,308.32	\$0
1568	LRAMVA	\$0.00	\$370,620.34	\$100,310.00	\$270,310.34	\$0.00	\$2,761.46		\$2,761.46	\$273,071.80	\$273,071.80	\$0
1580	RSVA Wholesale Market	-\$1,433,056.21	-\$60,007.39	-\$219,117.23	-\$1,273,946.37	-\$28,305.93	-\$13,082.62	-\$6,364.36	-\$35,024.19	-\$1,308,970.56	-\$1,308,970.56	\$0
1584	RSVA Network	\$283,726.91	\$25,955.64	-\$52,223.48	\$361,906.03	\$4,140.24	\$6,985.87	-\$763.56	\$11,889.67	\$373,795.70	\$373,795.70	\$0
1586	RSVA Connection	\$1,139,670.48	\$677,058.91	\$9,335.20	\$1,807,394.19	\$14,249.80	\$20,995.12	\$199.23	\$35,045.69	\$1,842,439.88	\$1,842,439.88	\$0
1588	RSVA Power	\$827,485.24	\$378,536.63	-\$66,869.08	\$1,272,890.95	\$14,483.97	\$24,750.24	\$145.42	\$39,088.79	\$1,311,979.74	\$1,311,979.74	\$0
1589	RSVA Global	\$298,643.72	\$1,761,559.66	-\$142,122.63	\$2,202,326.01	\$1,454.97	\$25,274.62	-\$5,350.35	\$32,079.94	\$2,234,405.95	\$2,234,405.95	\$0
1590	Disposition and Recovery of Regulatory Assets	\$35,541.48		\$6,491.03	\$29,050.45	\$0.00		\$0.00	\$0.00	\$29,050.45	\$29,050.45	\$0
1595	Disposition and Recovery of Regulatory Assets	\$466,184.57	-\$1,074,951.20	-\$181,073.25	-\$427,693.38	\$0.00			\$0.00	-\$427,693.38	-\$427,693.38	\$0
	Subtotal	\$2,442,647.43	\$2,391,745.79	-\$351,427.63	\$5,185,820.85	\$20,666.32	\$79,584.38	-\$4,986.75	\$105,237.45	\$5,291,058.30	\$5,291,058.30	\$0
GROUP	TWO											
1508	Other Regulatory Assets									\$656,625.12	\$656,625.13	\$0
	2010 Rebasing	\$87,176.96	-\$38,340.00	\$0.00	\$48,836.96	\$0.00	\$0.00	\$0.00	\$0.00	\$48,836.96		
	Incremental Capital Contribution (HONI)	\$7,875.33	\$8,318.83	\$0.00	\$16,194.16	\$29.99	\$149.72	\$0.00	\$179.71	\$16,373.87		
	LRAM	\$55,950.00	-\$38,260.00	\$0.00	\$17,690.00	\$0.00	\$438.44	\$0.00	\$438.44	\$18,128.44		
	OEB Cost Assessment	\$17,474.96	\$0.00	\$0.00	\$17,474.96	\$2,404.23	\$256.80	\$0.00	\$2,661.03	\$20,135.99		
	One-Time Incremental IFRS Transition Costs	\$475,391.33	\$17,604.00	\$0.00	\$492,995.33	\$19,423.50	\$7,006.16	\$0.00	\$26,429.66	\$519,424.99		
	Pension Contributions	\$29,126.59	\$0.00	\$0.00	\$29,126.59	\$4,170.12	\$428.16	\$0.00	\$4,598.28	\$33,724.87		
1518	RCVA Retail	-\$209,535.76	-\$14,603.09	\$0.00	-\$224,138.85	-\$9,762.12	-\$3,183.27	\$0.00	-\$12,945.39	-\$237,084.24	-\$237,084.24	\$0
1534	Smart Grid Capital	\$6,325.84	\$18,372.07	\$0.00	\$24,697.91	\$5.89	\$51.24	\$0.00	\$57.13	\$24,755.04	\$24,755.04	\$0
1548	RCVA STR	\$142,026.04	\$5,853.15	\$0.00	\$147,879.19	\$8,313.74	\$2,145.28	\$0.00	\$10,459.02	\$158,338.21	\$158,338.21	\$0
1555	Smart Meter Capital and Recovery Offset	\$410,459.97	-\$47,944.68	\$0.00	\$362,515.29	\$0.00	\$0.00	\$0.00	\$0.00	\$362,515.29	\$362,515.29	\$0
1576	CGAAP Accounting Changes	-\$602,340.82	-\$1,677,655.46	\$0.00	-\$2,279,996.28	\$0.00	\$0.00	\$0.00	\$0.00	-\$2,279,996.28	-\$2,279,996.28	\$0
1582	RSVA One Time	\$7,540.13	\$0.00	\$0.00	\$7,540.13	\$1,782.83	\$110.81	\$0.00	\$1,893.64	\$9,433.77	\$9,433.77	\$0
1592	PILs & Tax Variance									-\$153,000.21	-\$153,000.21	\$0
	Shared Tax Savings	-\$787.99	-\$831.87	\$0.00	-\$1,619.86	-\$0.75	-\$15.86	\$0.00	-\$16.61	-\$1,636.47		
	HST Savings	-\$115,054.66	-\$31,547.28	\$0.00	-\$146,601.94	-\$2,713.40	-\$2,048.40	\$0.00	-\$4,761.80	-\$151,363.74		
	Subtotal	\$427,470.57	-\$1,766,655.18	\$0.00	-\$1,339,184.61	\$26,368.18	\$7,403.34	\$0.00	\$33,771.52	-\$1,458,413.30	-\$1,458,413.29	\$0
	Grand Total	\$2,870,118.00	\$625,090.61	-\$351,427.63	\$3,846,636.24	\$47,034.50	\$86,987.72	-\$4,986.75	\$139,008.97	\$3,832,645.00	\$3,832,645.01	\$0

Line No.	USoA	Description	Ending Ba		2015 Disp (EB-2014		Timing Adj	ustments	Balance for D	Disposition	Interest Jan-Dec 2015	Interest Jan-Apr 2016	Total Claim
140.			Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Interest	Interest	
1	GROUP ONE												
2	1550 Low Voltage		\$918,252.43	\$19,417.97	\$602,078.56	\$7,507.57			\$316,173.87	\$11,910.40	\$3,477.91	\$1,159.30	\$332,721.49
3	1551 Smart Metering E	Entity Charge	\$25,330.20	-\$21.88	\$28,530.87	-\$11.17			-\$3,200.67	-\$10.71	-\$35.21	-\$11.74	-\$3,258.32
4	1568 LRAMVA		\$270,310.34	\$2,761.46	\$120,758.26	\$3,197.00	\$58,420.52	\$5,151.92	\$207,972.60	\$4,716.38			\$212,688.98
5	1580 RSVA Wholesale	Market	-\$1,273,946.37	-\$35,024.19	-\$1,213,938.98	-\$21,941.57			-\$60,007.39	-\$13,082.62	-\$660.08	-\$220.03	-\$73,970.12
6	1584 RSVA Network		\$361,906.03	\$11,889.67	\$335,950.39	\$4,903.80			\$25,955.64	\$6,985.87	\$285.51	\$95.17	\$33,322.19
7	1586 RSVA Connection	1	\$1,807,394.19	\$35,045.69	\$1,130,335.28	\$14,050.57			\$677,058.91	\$20,995.12	\$7,447.65	\$2,482.55	\$707,984.22
8	1588 RSVA Power		\$1,272,890.95	\$39,088.79	\$894,354.32	\$14,338.55			\$378,536.63	\$24,750.24	\$4,163.90	\$1,387.97	\$408,838.74
9	1589 RSVA Global		\$2,202,326.01	\$32,079.94	\$440,766.35	\$6,805.32			\$1,761,559.66	\$25,274.62	\$19,377.16	\$6,459.05	\$1,812,670.48
10	1590 Disposition and F	Recovery of Regulatory Assets	\$29,050.45	\$0.00	\$29,050.45	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
11	1595 Disposition and F	Recovery of Regulatory Assets											
12	Complete 2	013 & Prior	-\$351,232.56	\$0.00	-\$351,462.75	\$0.00	-\$230.19		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
13	Complete 2	2014	-\$115,634.06	\$0.00					-\$115,634.06	\$0.00	\$0.00	\$0.00	-\$115,634.06
14	Complete 2	2015	-\$40,124.31	\$0.00			\$40,124.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
15	Complete 2	2016	\$0.00	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
16	Complete 2	2017	\$79,297.55	\$0.00			-\$79,297.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
17	Subtotal		\$5,185,820.85	\$105,237.45	\$2,016,422.75	\$28,850.07	\$19,017.09	\$5,151.92	\$3,188,415.19	\$81,539.30	\$34,056.84	\$11,352.28	\$3,315,363.61
18	GROUP TWO												
19	1508 Other Regulatory	Assets											
20	2010 Rebas	sing	\$48,836.96	\$0.00	\$0.00	\$0.00	-\$48,836.96	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
21	Incrementa	l Capital Contribution (HONI)	\$16,194.16	\$179.71	\$0.00	\$0.00			\$16,194.16	\$179.71	\$178.14	\$59.38	\$16,611.38
22	LRAM		\$17,690.00	\$438.44	\$17,773.85	\$1,214.41	\$16,404.08	\$1,160.38	\$16,320.23	\$384.41			\$16,704.64
23	OEB Cost A	ssessment	\$17,474.96	\$2,661.03	\$0.00	\$0.00			\$17,474.96	\$2,661.03	\$192.22	\$64.07	\$20,392.29
24	One-Time I	ncremental IFRS Transition Costs	\$492,995.33	\$26,429.66	\$0.00	\$0.00			\$492,995.33	\$26,429.66	\$5,422.95	\$1,807.65	\$526,655.59
25	Pension Co	ntributions	\$29,126.59	\$4,598.28	\$0.00	\$0.00			\$29,126.59	\$4,598.28	\$320.39	\$106.80	\$34,152.06
26	1518 RCVA Retail		-\$224,138.85	-\$12,945.39					-\$224,138.85	-\$12,945.39	-\$2,465.53	-\$821.84	-\$240,371.61
27	1534 Smart Grid Capita	al	\$24,697.91	\$57.13					\$24,697.91	\$57.13	\$271.68	\$90.56	\$25,117.28
28	1548 RCVA STR		\$147,879.19	\$10,459.02					\$147,879.19	\$10,459.02	\$1,626.67	\$542.22	\$160,507.10
29	1555 Smart Meter Cap	ital and Recovery Offset	\$362,515.29	\$0.00			-\$45,374.46		\$317,140.83	\$0.00	\$0.00	\$0.00	\$317,140.83
30	1576 CGAAP Accounting	ng Changes	-\$2,279,996.28	\$0.00			-\$1,770,105.43		-\$4,050,101.71	\$0.00	\$0.00	\$0.00	-\$4,050,101.71
31	1582 RSVA One Time		\$7,540.13	\$1,893.64					\$7,540.13	\$1,893.64	\$82.94	\$27.65	\$9,544.36
32	1592 PILs & Tax Varian	nce											
33	Shared Tax	Savings	-\$1,619.86	-\$16.61					-\$1,619.86	-\$16.61	-\$17.82	-\$5.94	-\$1,660.23
34	HST Savings	s	-\$146,601.94	-\$4,761.80			-\$42,063.04		-\$188,664.98	-\$4,761.80	-\$2,075.31	-\$691.77	-\$196,193.87
35	Subtotal		-\$1,487,406.41	\$28,993.11	\$17,773.85	\$1,214.41	-\$1,889,975.81	\$1,160.38	-\$3,395,156.07	\$28,939.08	\$3,536.33	\$1,178.78	-\$3,361,501.88
36	GRAND TOTAL		\$3,698,414.44	\$134,230.56	\$2,034,196.60	\$30,064.48	-\$1,870,958.72	\$6,312.30	-\$206,740.88	\$110,478.38	\$37,593.17	\$12,531.06	-\$46,138.27

Entegrus Powerlines Inc. 2016 Cost of Service Application, EB-2015-0061 2016 Billing Determinants

2016 Lo	pad Forecast [Including WMP]			
Line	Rate Class	Customer	Total	Total
No.	nate Class	Numbers	kWh	kW
1	Residential	36,333	277,476,009	-
2	General Service <50	3,850	99,682,764	-
3	General Service >50	491	478,846,838	1,272,217
4	Large User	2	40,551,283	86,226
5	Unmetered Scattered Load Connections	335	1,288,075	-
6	Sentinel Lighting Connections	532	396,340	1,110
7	Street Lighting Connections	13,469	7,263,208	21,790
8	Embedded Distributor	1	4,421,657	11,231
9	Total	55,013	909,926,173	1,392,574

Wholes	ale Market Participants			
Line	Rate Class	Customer	Total	Total
No.	Rate Class	Numbers	kWh	kW
1	Residential			
2	General Service <50			
3	General Service >50	2	6,861,699	16,737
4	Large User			
5	Unmetered Scattered Load Connections			
6	Sentinel Lighting Connections			
7	Street Lighting Connections			
8	Embedded Distributor			
9	Total	2	6,861,699	16,737

Entegrus Powerlines Inc. 2016 Cost of Service Application, EB-2015-0061 2016 Billing Determinants

Class A	Customers			
Line	Rate Class	Customer	Total	Total
No.	Rate Class	Numbers	kWh	kW
1	Residential			
2	General Service <50			
3	General Service >50			
4	Large User	2	40,551,283	86,226
5	Unmetered Scattered Load Connections			
6	Sentinel Lighting Connections			
7	Street Lighting Connections			
8	Embedded Distributor			
9	Total	2	40,551,283	86,226

NON-R	PP				
Line	Rate Class	Percent of	2016	Percent of 2014	2016
No.	Rate Class	2014 kWh	Non-RPP kWh	kW	Non-RPP kW
1	Residential	9.03%	25,050,844		-
2	General Service <50	15.68%	15,634,625		-
3	General Service >50	90.26%	432,212,462	89.86%	1,143,221
4	Large User	100.00%	40,551,283	100.00%	86,226
5	Unmetered Scattered Load Connections	0.45%	5,847		-
6	Sentinel Lighting Connections	0.00%	-	0.00%	-
7	Street Lighting Connections	100.00%	7,263,208	100.00%	21,790
8	Embedded Distributor	100.00%	4,421,657	100.00%	11,231
9	Total		525,139,925		1,262,468

Entegrus Powerlines Inc. 2016 Cost of Service Application, EB-2015-0061 Proposed Group One Disposition

Billing Determinants [Load Forecast]						
Poto Class	Customer	Total	Total	Non-RPP	Non-RPP	
Rate Class	Numbers	kWh	kW	kWh	kW	
Residential	36,333	277,476,009	-	25,050,844	-	
General Service <50	3,850	99,682,764	-	15,634,625	-	
General Service >50	491	471,985,139	1,255,480	425,350,763	1,126,484	
General Service >50 - WMP	2	6,861,699	16,737	6,861,699	16,737	
Large Use - Class A	2	40,551,283	86,226	40,551,283	86,226	
Unmetered Scattered Load Connections	335	1,288,075	-	5,847	-	
Sentinel Lighting Connections	532	396,340	1,110	-	-	
Street Lighting Connections	13,469	7,263,208	21,790	7,263,208	21,790	
Embedded Distributor	1	4,421,657	11,231	4,421,657	11,231	
Total	55,015	909,926,173	1,392,574	525,139,925	1,262,468	
Total Excuding Embedded Distributor		905,504,516		520,718,268		
Total Excluding Embedded Distributor & WMP		898,642,817				
Total Excluding Embedded Distributor,				472 20E 207		
WMP & Class A				473,305,287		

Allocation of Deferral Balances							
Deferral Acct	1550	1551	1580	1584	1586	1588	1589
Total Claim Per Board Model:	\$332,721.49	-\$3,258.32	-\$73,970.12	\$33,322.19	\$707,984.22	\$408,838.74	\$1,812,670.48
Allocation Notes:	Total kWh	Res & GS<50	Total kWh	Total kWh	Total kWh	Total kWh	Total Non-RPP kWh
		Customer No.	Excluding WMP			Excluding WMP	Excluding WMP &
							Class A
Residential	\$101,956.68	-\$2,946.14	-\$22,839.92	\$10,211.00	\$216,949.37	\$126,238.08	\$95,940.04
General Service <50	\$36,627.76	-\$312.19	-\$8,205.20	\$3,668.28	\$77,938.68	\$45,350.81	\$59,877.68
General Service >50	\$173,427.74		-\$38,850.58	\$17,368.86	\$369,029.67	\$214,730.26	\$1,629,013.65
General Service >50 - WMP	\$2,521.28		\$0.00	\$252.51	\$5,364.94	\$0.00	\$0.00
Large Use - Class A	\$14,900.29		-\$3,337.90	\$1,492.27	\$31,705.72	\$18,448.86	\$0.00
Unmetered Scattered Load Connections	\$473.29		-\$106.03	\$47.40	\$1,007.10	\$586.01	\$22.39
Sentinel Lighting Connections	\$145.63		-\$32.62	\$14.59	\$309.89	\$180.32	\$0.00
Street Lighting Connections	\$2,668.82		-\$597.86	\$267.28	\$5,678.86	\$3,304.41	\$27,816.72
Embedded Distributor	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$332,721.49	-\$3,258.32	-\$73,970.12	\$33,322.19	\$707,984.22	\$408,838.74	\$1,812,670.48

Entegrus Powerlines Inc. 2016 Cost of Service Application, EB-2015-0061 Proposed Group One Disposition

Allocation of Residual Balances, Account 1595 - Group One						
Application	EB-2012-	0119 - CK	EB-2012-0	119 - SMP		
Residual Balance		\$592.09	-\$2,426.99		Total	
Rate Class	Original Alloc	Alloc Balance	Original Alloc	Alloc Balance		
Residential	28.81%	\$170.55	57.37%	-\$1,392.38	-\$1,221.83	
General Service <50	13.20%	\$78.17	23.14%	-\$561.63	-\$483.46	
General Service >50	52.04%	\$303.72	19.78%	-\$473.21	-\$169.49	
General Service >50 - WMP		\$4.42		-\$6.88	-\$2.46	
Large Use - Class A	4.71%	\$27.89	-1.90%	\$46.18	\$74.07	
Unmetered Scattered Load Connections	0.15%	\$0.88	-0.19%	\$4.50	\$5.38	
Sentinel Lighting Connections	0.04%	\$0.22	0.06%	-\$1.51	-\$1.29	
Street Lighting Connections	1.05%	\$6.23	1.73%	-\$42.06	-\$35.83	
Embedded Distributor					\$0.00	
Total	100.0%	\$592.08	100.0%	-\$2,426.99	-\$1,834.91	

Allocation of Residual Balances, Account 1595 - Non-RPP						
Application	EB-2012-	0119 - CK	EB-2012-0	119 - SMP		
Residual Balance		-\$119,262.94	\$5,463.78		Total	
Rate Class	Original Alloc	Alloc Balance	Original Alloc	Alloc Balance		
Residential	9.34%	-\$11,144.79	7.59%	\$414.90	-\$10,729.89	
General Service <50	3.58%	-\$4,305.00	1.86%	\$101.76	-\$4,203.24	
General Service >50	77.56%	-\$92,499.41	64.34%	\$3,515.60	-\$88,983.81	
General Service >50 - WMP		\$0.00		\$0.00	\$0.00	
Large Use - Class A	7.73%	-\$9,217.94	25.09%	\$1,370.70	-\$7,847.24	
Unmetered Scattered Load Connections	0.00%	\$0.00	0.05%	\$2.55	\$2.55	
Sentinel Lighting Connections	0.03%	\$0.00	0.01%	\$0.00	\$0.00	
Street Lighting Connections	1.76%	-\$2,095.80	1.07%	\$58.27	-\$2,037.53	
Embedded Distributor					\$0.00	
Total	100.0%	-\$119,262.94	100.0%	\$5,463.78	-\$113,799.16	

Entegrus Powerlines Inc. 2016 Cost of Service Application, EB-2015-0061 Proposed Group One Disposition

Rate Class	Billing Unit	Group One Disp Total \$	Group One Rate Rider	Non-RPP Excluding WMP & Class A	Non-RPP Rate Rider
Residential	kWh	\$428,347.24	\$0.0015	\$85,210.15	\$0.0034
General Service <50	kWh	\$154,584.68	\$0.0016	\$55,674.44	\$0.0036
General Service >50	kW	\$735,536.46	\$0.5859	\$1,540,029.84	\$1.3671
General Service >50 - WMP	kW	\$8,136.27	\$0.4861	\$0.00	\$0.0000
Large Use - Class A	kW	\$63,283.31	\$0.7339	-\$7,847.24	-\$0.0910
Unmetered Scattered Load Connections	kWh	\$2,013.16	\$0.0016	\$24.94	\$0.0043
Sentinel Lighting Connections	kW	\$616.50	\$0.5554	\$0.00	\$0.0000
Street Lighting Connections	kW	\$11,285.68	\$0.5179	\$25,779.19	\$1.1831
Embedded Distributor	kW	\$0.00	\$0.0000	\$0.00	\$0.0000
Total		\$1,403,803.29		\$1,698,871.32	

Rate Rider Recovery Period
1

Balanced:

\$0.00

Entegrus Powerlines Inc. 2016 Cost of Service Application, EB-2015-0061 Proposed Group Two Disposition

Billing Determinants [Load Forecast]					
Rate Class	Customer Numbers	Total kWh	Total kW		
Residential	36,333	277,476,009	-		
General Service <50	3,850	99,682,764	-		
General Service >50	493	478,846,838	1,272,217		
Large Use	2	40,551,283	86,226		
Unmetered Scattered Load Connections	335	1,288,075	-		
Sentinel Lighting Connections	532	396,340	1,110		
Street Lighting Connections	13,469	7,263,208	21,790		
Embedded Distributor	1	4,421,657	11,231		
Total	55,015	909,926,173	1,392,574		
Total Excluding Embedded Distributor		905,504,516	1,381,343		

Allocation of Deferral Balances, Section 1:						
Deferral Acct	1508 - ICC (HONI)	1508 - One- Time IFRS	1508 - OEB Cost	1508 - Pension	1518	1534
Total Claim:	\$16,611.38	\$526,655.59	\$20,392.29	\$34,152.06	-\$240,371.61	\$25,117.28
Allocation Notes:	Total kWh	Total kWh	Total kWh	Total kWh	Total kWh	Total kWh
Residential	\$5,090.27	\$161,384.39	\$6,248.86	\$10,465.30	-\$73,657.67	\$7,696.75
General Service <50	\$1,828.67	\$57,977.05	\$2,244.89	\$3,759.64	-\$26,461.39	\$2,765.04
General Service >50	\$8,784.39	\$278,504.81	\$10,783.80	\$18,060.21	-\$127,112.77	\$13,282.46
Large Use	\$743.91	\$23,585.26	\$913.23	\$1,529.43	-\$10,764.58	\$1,124.83
Unmetered Scattered Load Connections	\$23.63	\$749.16	\$29.01	\$48.58	-\$341.93	\$35.73
Sentinel Lighting Connections	\$7.27	\$230.52	\$8.93	\$14.95	-\$105.21	\$10.99
Street Lighting Connections	\$133.24	\$4,224.40	\$163.57	\$273.94	-\$1,928.06	\$201.47
Embedded Distributor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$16,611.38	\$526,655.59	\$20,392.29	\$34,152.06	-\$240,371.61	\$25,117.28

Entegrus Powerlines Inc. 2016 Cost of Service Application, EB-2015-0061 Proposed Group Two Disposition

Allocation of Deferral Balances, Section 2:						
Deferral Acct	1548	1555	1582	1592	1592	TOTAL
Total Claim:	\$160,507.10	\$317,140.83	\$9,544.36	-\$1,660.23	-\$196,193.87	\$671,895.19
Allocation Notes:	Total kWh	Actual	Total kWh	Total kWh	Total kWh	
Residential	\$49,184.59	\$97,206.45	\$2,924.70	-\$508.75	-\$60,120.18	\$205,890.52
General Service <50	\$17,669.48	\$136,176.71	\$1,050.69	-\$182.77	-\$21,598.07	\$73,965.80
General Service >50	\$84,879.00	\$83,757.67	\$5,047.23	-\$877.96	-\$103,750.79	\$355,310.08
Large Use	\$7,188.00		\$427.43	-\$74.35	-\$8,786.17	\$30,089.54
Unmetered Scattered Load Connections	\$228.32		\$13.58	-\$2.36	-\$279.08	\$955.77
Sentinel Lighting Connections	\$70.25		\$4.18	-\$0.73	-\$85.87	\$294.09
Street Lighting Connections	\$1,287.46		\$76.56	-\$13.32	-\$1,573.70	\$5,389.39
Embedded Distributor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$160,507.10	\$317,140.83	\$9,544.36	-\$1,660.23	-\$196,193.87	\$671,895.19

Calculation of Rate Riders						
Rate Class	Billing Unit	Group One Disp Total \$	Group One Rate Rider			
Residential	Customer	\$205,890.52	\$0.47			
General Service <50	kWh	\$73,965.80	\$0.0007			
General Service >50	kW	\$355,310.08	\$0.2793			
Large Use	kW	\$30,089.54	\$0.3490			
Unmetered Scattered Load Connections	kWh	\$955.77	\$0.0007			
Sentinel Lighting Connections	kW	\$294.09	\$0.2649			
Street Lighting Connections	kW	\$5,389.39	\$0.2473			
Embedded Distribution	kW	\$0.00	\$0.0000			
Total		\$671,895.19				

Rate Rider Recovery Period
1

Entegrus Powerlines Inc. 2016 Cost of Service Application, EB-2015-0061 Proposed LRAMVA & LRAM Disposition

Billing Determinants [Load Forecast]				
Rate Class	Customer	Total	Total	
Rate Class	Numbers	kWh	kW	
Residential	36,333	277,476,009	-	
General Service <50	3,850	99,682,764	-	
General Service >50	491	478,846,838	1,272,217	
Large Use	2	40,551,283	86,226	
Unmetered Scattered Load Connections	335	1,288,075	-	
Sentinel Lighting Connections	532	396,340	1,110	
Street Lighting Connections	13,469	7,263,208	21,790	
Embedded Distributtor	1	4,421,657	11,231	
Total	55,013	909,926,173	1,392,574	

Calculation of Rate Rider							
Rate Class	Billing Unit	CK LRAMVA	SMP LRAMVA	SMP LRAM	Balance	Updated LRAM/ LRAMVA Rate Rider (Nov12)	Rate Rider Per Application (Aug28)
Residential	kWh	\$34,679.50	\$14,693.77	\$11,976.17	\$61,349.44	\$0.0002	\$0.0002
General Service <50	kWh	\$63,893.65	\$3,785.62	\$4,116.08	\$71,795.35	\$0.0007	\$0.0007
General Service >50	kW	\$65,369.42	\$6,889.55	\$612.39	\$72,871.36	\$0.0573	\$0.0635
Large Use	kW	\$23,312.11	\$52.57		\$23,364.68	\$0.2710	\$0.3180
Unmetered Scattered Load Connections	kWh				\$0.00		
Sentinel Lighting Connections	kW				\$0.00		
Street Lighting Connections	kW		\$12.78		\$12.78	\$0.0006	\$0.0006
Embedded Distributor	kW				\$0.00		
Total		\$187,254.68	\$25,434.29	\$16,704.64	\$229,393.60		

Entegrus Powerlines Inc. 2016 Cost of Service Application, EB-2015-0061 Calculation of Rate Rider for the Disposition of Accounting Changes under CGAAP

Billing Determinants [Load Forecast]					
Rate Class	Customer Numbers				
Residential	36,333	277,476,009	-		
General Service <50	3,850	99,682,764	-		
General Service >50	491	478,846,838	1,272,217		
Large Use	2	40,551,283	86,226		
Unmetered Scattered Load Connections	335	1,288,075	-		
Sentinel Lighting Connections	532	396,340	1,110		
Street Lighting Connections	13,469	7,263,208	21,790		
Embedded Distribution	1	4,421,657	11,231		
Total	55,013	909,926,173	1,392,574		
Total Excluding Embedded Distributor		905,504,516			

Calculation of Rate Rider				
Rate Class	Allocated Balance	Billing Unit	IFRS Rate Rider	
Residential	-\$1,241,082.78	Customer	-\$1.4200	
General Service <50	-\$445,856.79	kWh	-\$0.0022	
General Service >50	-\$2,141,765.57	kW	-\$0.8417	
Large Use	-\$181,376.03	kW	-\$1.0517	
Unmetered Scattered Load Connections	-\$5,761.25	kWh	-\$0.0022	
Sentinel Lighting Connections	-\$1,772.73	kW	-\$0.7985	
Street Lighting Connections	-\$32,486.56	kW	-\$0.7454	
Embedded Distribution	\$0.00	kW	\$0.0000	
Total	-\$4,050,101.71			