

100 Simcoe Street South, Oshawa, Ontario L1H 7M7 • Tel. (905) 723-4623 • Fax (905) 723-7947 • E-mail contactus@opuc.on.ca

September 26, 2012

Board Secretary Ontario Energy Board P.O. Box 2319 27th Floor 2300 Yonge Street Toronto, Ontario M4P 1E4

Dear Ms. Walli:

Re: Oshawa PUC Networks Inc. (ED-2002-0560) Response to Interrogatories (EB-2012-0157)

Enclosed with this letter are OPUCN's responses to the interrogatories received as part of the above mentioned rate case. The responses have been filed using the RESS online submission system. Copies of the electronic files have been sent to Board Staff and the intervenors of record. Two (2) paper copies of these responses will be delivered to your office shortly.

If you have any questions about this submission please contact the undersigned.

Yours truly,

Philip Martin, VP Finance and Regulatory Compliance Email: pmartin@opuc.on.ca (905) 723-4626 ext 5250



1. Ref: 2012 IRM3 Tax Savings Work Form, page 5
Ref: Revenue Requirement Work Form EB-2011-0073

Board Staff notes some discrepancies in the tax rates entered into the 2013 Tax Savings Work form.

- a) Please confirm that Oshawa's 2012 rates were set on the basis of a 20.16% tax rate.
- b) Please provide an explanation of the 2012 tax rate of 23.63% entered in the tax savings work form with the 2012 approved rate being 20.16%. If this is an error Board Staff will update your work form.



REVENUE REQUIREMENT WORK FORM

Version: 2.1

Name of LDC: Oshawa PUC Networks

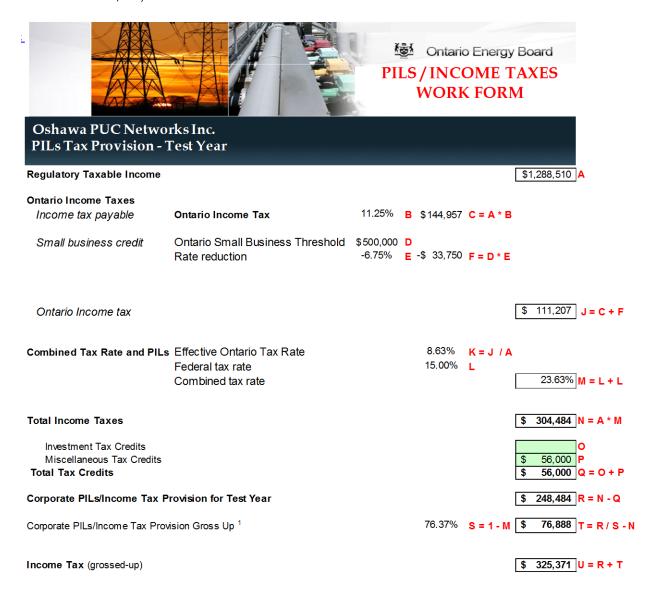
File Number: EB-2011-0073

Rate Year: 2012

Taxes/PILs Line Per Board Settlement **Application Particulars** No. Agreement Decision **Determination of Taxable Income** Utility net income before taxes \$3,141,852 \$3,045,203 \$3,045,203 Adjustments required to arrive at taxable utility \$455,587 (\$1,756,692)\$455,587 income \$3,597,438 \$1,288,510 \$3,500,789 Taxable income **Calculation of Utility income Taxes** Income taxes \$922,017 \$259,774 \$259,774 Capital taxes \$ -\$ -6 Total taxes \$259,774 \$922,017 \$259,774 Gross-up of Income Taxes \$317,750 \$65,598 \$65,598 Grossed-up Income Taxes \$1,239,766 \$325,371 \$325,371 PILs / tax Allowance (Grossed-up Income taxes + Capital taxes) \$1,239,766 \$325,371 \$325,371 Other tax Credits \$ -\$ -\$ -**Tax Rates** 14.38% 11.53% 11.53% 11 Federal tax (%) 12 Provincial tax (%) 11.25% 8.63% 8.63% Total tax rate (%) 25.63% 20.16% 20.16%

OPUCN Response:

a)&b) The 20.16% is a derived rate based on an input rate of 23.63% combined with tax credits of \$56,000 – see table below. The 23.63% entered is correct.



Note:

^{1.} This is for the derivation of revenue requirement and should not be used for sufficiency/deficiency calculations.

2. Ref: 2012 IRM3 RTSR Work form, page 4

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

Rate Class	Unit	Non-Loss Adjusted Metered kWh	Non-Loss Adjusted Metered kW	Applicable Loss Factor	Load Factor	Loss Adjusted Billed kWh	Billed kW
Residential	kWh	484,617,834		1.0487		508,218,723	-
General Service Less Than 50 kW	kWh	135,695,878		1.0487		142,304,267	-
General Service 50 to 999 kW	kW	161,366,304	414,036		53.42%	161,366,304	414,036
General Service 50 to 999 kW - Interval Metered	kW	198,168,071	453,034		59.95%	198,168,071	453,034
General Service 1,000 to 4,999 kW	kW	79,908,016	192,700		56.84%	79,908,016	192,700
Large Use	kW	37,740,699	83,704		61.80%	37,740,699	83,704
Unmetered Scattered Load	kWh	2,769,028		1.0487		2,903,880	-
Sentinel Lighting	kW	38,567	115		45.97%	38,567	115
Street Lighting	kW	10,214,450	27,715		50.51%	10,214,450	27,715

b) Please confirm Sentinel Lighting and Street Lighting Non-Loss adjusted Metered kWh are correct, as they do not reconcile to RRR 2.1.5. If confirmed, please provide an explanation for the differences in the RRR data.

Non-Loss Adjusted Metered kWh	RTSR Work Form Data	2.1.5 RRR Data
Sentenel Lighting	38,567	-
Street Lighting	10,214,450	10,253,017
Total	10,253,017	10,253,017

OPUCN Response:

- a) Confirmed.
- b) The Sentinel Lighting and Street Lighting Non-Loss adjusted Metered kWh as entered in the RTSR Work Form are correct. The RRR submission consolidated both under street lighting. OPUCN will correct it's RRR reporting.

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to Board Staff Interrogatories August 26, 2012 Page 4 of 14

3. Ref: 2012 IRM3 Rate Generator Version 2.1

Please update your 2012 IRM3 Rate Generator Model to version 2.3 located on the Board's website at:

http://www.ontarioenergyboard.ca/OEB/Industry/Regulatory%20Proceedings/Applications%20Before%20the%20Board/Electricity%20Distribution%20Rates/2013%20Electricity%20Distribution%20Rate%20Applications

OPUCN Response:

Updated and filed via RESS.

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to Board Staff Interrogatories August 26, 2012 Page 5 of 14

4. Ref: 2012 IRM3 Rate Generator Sheet 5 2013 Continuity Schedule Ref: Oshawa_Draft Rate Order_20111213.pdf

Board staff is not able to reconcile accounts 1586 Retail Transmission Connection Charge, 1588 Power excluding Global Adjustment and 1588 Power Sub Account Global Adjustment with Oshawa's Draft Rate Order that was approved by the Board in Oshawa's 2012 rate proceeding (see first table below). Please explain the omission of this data in columns "Principal Disposition during 2012 – instructed by Board" and "Interest Disposition during 2012 – instructed by Board" in the second table below. Please make any updates required to the continuity schedule.

Rate Riders Calculation

Deferral and Variance Accounts:	Disposition Amount	Allocator
WMSC - Account 1580	(1,195,583)	kWh
One-Time WMSC - Account 1582	63,623	kWh
Network - Account 1584	1,369,978	kWh
Connection - Account 1586	(153,887)	kWh
Power - Account 1588 (excl Global		
Adjustment)	49,496	kWh
Power - Account 1588 subAcct Global		non RPP
Adjustment	(468,212)	kWh
RARA - Account 1590	6,114	kWh
Subtotal - RSVA	(328,470)	

Account Descriptions	Principal Disposition during 2012 - instructed by Board	Interest Disposition during 2012 - instructed by Board	Closing Principal Balances as of Dec 31-11 Adjusted for Disposition s during 2012	Closing Interest Balances as of Dec 31- 11 Adjusted for Disposition s during 2012
Group 1 Accounts				
LV Variance Account			0	0
1580 RSVA - Wholesale Market Service Charge	-1,178,621	- 16,962	-1,126,739	- 25,866
1584 RSVA - Retail Transmission Network Charge	1,355,700	14,278	1,285,242	39,858
1586 RSVA - Retail Transmission Connection Charge			- 875,077	- 20,027
1588 RSVA - Power (excluding Global Adjustment)			155,491	- 8,892
1588 RSVA - Power - Sub-account - Global Adjustment			- 45,787	- 18,622

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to Board Staff Interrogatories August 26, 2012 Page 6 of 14

OPUCN Response:

The missing data in columns "Principal Disposition during 2012 – instructed by Board" and "Interest Disposition during 2012 – instructed by Board" in the second table above has been added to the continuity schedule.

The revised total for the Group 1 Accounts of \$68,516 does not meet the threshold test, and therefore does not impact the application as originally submitted.

Account Descriptions			Closing	Closing
			Principal	Interest
	Principal	Interest	Balances as	Balances as
	Disposition	Disposition	of Dec 31-11	of Dec 31-11
	during 2012	during 2012	Adjusted for	Adjusted for
Group 1 Accounts	instructed	instructed	Dispositions	Dispositions
LV Variance Account	by Board	by Board	during 2012	during 2012
1580 RSVA - Wholesale Market Service Charge	(1,178,621)	(16,962)	(1,126,739)	(25,866)
1584 RSVA - Retail Transmission Network Charge	1,355,700	14,278	1,285,242	39,858
1586 RSVA - Retail Transmission Connection Charge	(156,491)	2,604	(718,586)	(22,631)
1588 RSVA - Power (excluding Global Adjustment)	45,682	3,815	109,809	(12,707)
1588 RSVA - Power - Sub-account - Global Adjustme	(448,598)	(19,613)	402,811	991

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to Board Staff Interrogatories August 26, 2012 Page 7 of 14

5. Ref: Manager's Summary, Page 7-8 of 9, LRAM

Oshawa has requested an LRAM recovery for a total amount of \$281,835.83 for lost revenues incurred in 2010 and 2011 from CDM programs implemented between 2006 and 2010.

- a) Please confirm that Oshawa has used final 2010 program evaluation results from the OPA to calculate its LRAM amount.
- b) If Oshawa did not use final 2010 program evaluation results from the OPA, please explain why and update the LRAM amount accordingly.
- c) Please confirm that Oshawa has not received any of the lost revenues requested in this application in the past. If Oshawa has collected lost revenues related to programs applied for in this application, please discuss the appropriateness of this request.
- d) Please discuss why there are still remaining lost revenues from historical programs (i.e. 2006-2009) that Oshawa is seeking to recover at this time. Please reconcile this with the LRAM claim Oshawa received in its 2012 COS application (EB-2011-0073).
- e) Please provide a table that shows the LRAM amounts requested in this application by the year they are associated with and the year the lost revenues took place. Please provide separate tables for each rate class. Use the table below as an example and continue for all the years LRAM is requested:

Program Years		Years that lost revenues took place										
	2006	2007	2008	2009	2010	2011						
2006	\$xxx	\$xxx	\$xxx	\$xxx	\$xxx	\$xxx						
2007		\$xxx	\$xxx	\$xxx	\$xxx	\$xxx						
2008			\$xxx	\$xxx	\$xxx	\$xxx						
2009				\$xxx	\$xxx	\$xxx						
2010					\$xxx	\$xxx						

f) Please provide a table similar to the one above that shows the LRAM amounts Oshawa has collected in the past.

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to Board Staff Interrogatories August 26, 2012 Page 8 of 14

- g) Please discuss if Oshawa is applying for recovery of any carrying charges related to its LRAM amount.
- h) If Oshawa is applying for carrying charges, please provide a table that shows the monthly LRAM balances, the Board-approved carrying charge rate and the total carrying charges by month for the duration of this LRAM request to support your request for carrying charges. Use the table below as an example:

Year	Month	Monthly Lost Revenue	Closing Balance	Interest Rate	Interest \$

OPUCN Response:

- a) Confirmed. All OPA program KWh savings used in the LRAM recovery calculations were taken from the "2006-2010 Final OPA CDM Results Oshawa PUC Networks Inc" report issued by the OPA.
- b) Not applicable, see a).
- c) Confirmed. Only lost revenues for years not claimed previously have been included in this request.
- d) Oshawa has only claimed lost revenues up to 2010 for 2006-2009 programs in previous claims therefore is seeking to recover only the 2011 lost revenue for 2006-2009 programs in this claim. The LRAM claim that Oshawa received in its 2012 COS application (EB-2011-0073) was only for 2010 lost revenue for 2006-2009 programs; the 2011 lost revenue was not applied for at that time. See tables in responses e) and f) for clarification on the lost revenues by year claimed in this and all previous applications.

e) Tables below show LRAM amounts requested in 2013 IRM Rate Application by the year they are associated with and the year the lost revenues took place, by rate class.

	Years that lost revenues took place										
Program Years	2006	2007	2008	2009	2010	2011	Total				
Rate Class: Resid	dential										
2006						\$10,007	\$10,007				
2007						\$25,819	\$25,819				
2008						\$29,627	\$29,627				
2009						\$14,939	\$14,939				
2010					\$16,438	\$15,826	\$32,264				
Total	\$0	\$0	\$0	\$0	\$16,438	\$96,218	\$112,656				
Rate Class: Comi	nercial		-								
2006							\$0				
2007							\$0				
2008						\$43,927	\$43,927				
2009						\$60,358	\$60,358				
2010					\$17,947	\$18,615	\$36,562				
Total	\$0	\$0	\$0	\$0	\$17,947	\$122,900	\$140,846				
Rate Class: GS >	50KW-200										
2006							\$0				
2007							\$0				
2008						\$2,641	\$2,641				
2009						\$544	\$544				
2010					\$4,377	\$129	\$4,507				
Total	\$0	\$0	\$0	\$0	\$4,377	\$3,314	\$7,691				
Rate Class: GS 20	00KW-1000		<u> </u>	· ·			. ,				
2006							\$0				
2007							\$0				
2008						\$2,413	\$2,413				
2009						\$177	\$177				
2010					\$4,362	\$114	\$4,476				
Total	\$0	\$0	\$0	\$0	\$4,362	\$2,703	\$7,066				
Rate Class: Unme	etered Scattere	d Load									
2006							\$0				
2007						\$13,576	\$13,576				
2008							\$0				
2009							\$0				
2010							\$0				
Total	\$0	\$0	\$0	\$0	\$0	\$13,576	\$13,576				
Total of all Rate C	Classes										
2006	\$0	\$0	\$0	\$0	\$0	\$10,007	\$10,007				
2007	\$0	\$0	\$0	\$0	\$0	\$39,395	\$39,395				
2008	\$0	\$0	\$0	\$0	\$0	\$78,607	\$78,607				
2009	\$0	\$0	\$0	\$0	\$0	\$76,017	\$76,017				
2010	\$0	\$0	\$0	\$0	\$43,125	\$34,684	\$77,809				
Total	\$0	\$0	\$0	\$0	\$43,125	\$238,711	\$281,836				

f) Tables below show LRAM amounts collected in the past by the year they are associated with and the year the lost revenues took place, by rate class.

2000	IDM	Data	Applie	atian

Program		Years that lost revenues took place										
Years	2006	2007	2008	2009	2010	2011	Total					
Rate Class: F	Residential											
2006	\$67,298	\$67,927					\$135,225					
2007		\$48,610					\$48,610					
2008							\$0					
2009							\$0					
2010							\$(
Total	\$67,298	\$116,537	\$0	\$0	\$0	\$0	\$183,83					
Rate Class: l	Jnmetered Sc	attered Load										
2006							\$0					
2007		\$8,186					\$8,186					
2008							\$(
2009							\$(
2010							\$(
Total	\$0	\$8,186	\$0	\$0	\$0	\$0	\$8,186					
Total of all R	ate Classes											
2006	\$67,298	\$67,927	\$0	\$0	\$0	\$0	\$135,22					
2007	\$0	\$56,796	\$0	\$0	\$0	\$0	\$56,796					
2008	\$0	\$0	\$0	\$0	\$0	\$0	\$(
2009	\$0	\$0	\$0	\$0	\$0	\$0	\$(
2010	\$0	\$0	\$0	\$0	\$0	\$0	\$0					
Total	\$67,298	\$124,723	\$0	\$0	\$0	\$0	\$192,02°					

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157

Response to Board Staff Interrogatories August 26, 2012 Page 11 of 14

2010 IRM Rate Application

			Voore that I	oot roverses to	ok place		
Program Years	2006	2007	2008	ost revenues to 2009	2010	2014	Total
		2007	2000	2009	2010	2011	Total
Rate Class:	Residential		¢6 004				¢e 004
2006			\$6,901				\$6,901
2007			£40.050				\$0
2008			\$18,356				\$18,356
2009							\$0
2010	# 0	r.o.	#05.050	¢o.	# 0	r.o.	\$0
Total	\$0	\$0	\$25,258	\$0	\$0	\$0	\$25,258
	Commercial			<u> </u>			40
2006							\$0
2007							\$0
2008			\$1,378				\$1,378
2009							\$0
2010		. .	A			A -	\$0
Total	\$0	\$0	\$1,378	\$0	\$0	\$0	\$1,378
	GS >50KW-200)					
2006							\$0
2007							\$0
2008			\$1,673				\$1,673
2009							\$0
2010							\$0
Total	\$0	\$0	\$1,673	\$0	\$0	\$0	\$1,673
Rate Class:	GS 200KW-100	00					1
2006							\$0
2007							\$0
2008			\$397				\$397
2009							\$0
2010							\$0
Total	\$0	\$0	\$397	\$0	\$0	\$0	\$397
Rate Class:	Unmetered Sca	attered Load			1		
2006							\$0
2007			\$14,780				\$14,780
2008							\$0
2009							\$0
2010							\$0
Total	\$0	\$0	\$14,780	\$0	\$0	\$0	\$14,780
Total of all F	Rate Classes				1		,
2006	\$0	\$0	\$6,901	\$0	\$0	\$0	\$6,901
2007	\$0	\$0	\$14,780	\$0	\$0	\$0	\$14,780
2008	\$0	\$0	\$21,805	\$0	\$0	\$0	\$21,805
2009	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2010	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$43,486	\$0	\$0	\$0	\$43,486

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157

Response to Board Staff Interrogatories August 26, 2012 Page 12 of 14

2011 IRM Rate Application

_	1		Years that	lost revenues	took place		
Program Years	2006	2007	2008	2009	2010	2011	Total
Rate Class:						=011	· Juli
2006	Residential			\$56,781			\$56,781
2007				\$27,074			\$27,074
2008				\$31,065			\$31,065
2009				\$16,004			\$16,004
2010				+ -/			\$0
Total	\$0	\$0	\$0	\$130,923	\$0	\$0	\$130,923
	Commercial	* - 1	* - 1	+/-	* - 1		+/-
2006							\$0
2007							\$0
2008				\$44,607			\$44,607
2009				\$64,307			\$64,307
2010							\$0
Total	\$0	\$0	\$0	\$108,914	\$0	\$0	\$108,914
Rate Class:	GS >50KW-200)					
2006							\$0
2007							\$0
2008				\$3,594			\$3,594
2009				\$4,106			\$4,106
2010							\$0
Total	\$0	\$0	\$0	\$7,700	\$0	\$0	\$7,700
Rate Class:	GS 200KW-100	00					
2006							\$0
2007							\$0
2008				\$3,459			\$3,459
2009				\$3,745			\$3,745
2010							\$0
Total	\$0	\$0	\$0	\$7,204	\$0	\$0	\$7,204
Rate Class:	Unmetered Sc	attered Load					
2006							\$0
2007				\$17,325			\$17,325
2008							\$0
2009							\$0
2010							\$0
Total	\$0	\$0	\$0	\$17,325	\$0	\$0	\$17,325
Total of all I	Rate Classes	,					
2006	\$0	\$0	\$0	\$56,781	\$0	\$0	\$56,781
2007	\$0	\$0	\$0	\$44,399	\$0	\$0	\$44,399
2008	\$0	\$0	\$0	\$82,724	\$0	\$0	\$82,724
2009	\$0	\$0	\$0	\$88,162	\$0	\$0	\$88,162
2010	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$272,066	\$0	\$0	\$272,066

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157

Response to Board Staff Interrogatories

August 26, 2012 Page 13 of 14

Program			Years that	lost revenues	took place		
Years	2006	2007	2008	2009	2010	2011	Total
Rate Class: R	esidential						
2006					\$10,240		\$10,240
2007					\$26,435		\$26,435
2008					\$30,331		\$30,331
2009					\$15,302		\$15,302
2010							\$0
Total	\$0	\$0	\$0	\$0	\$82,308	\$0	\$82,308
Rate Class: C	ommercial						
2006							\$(
2007							\$(
2008					\$42,662		\$42,662
2009					\$58,619		\$58,619
2010							\$(
Total	\$0	\$0	\$0	\$0	\$101,281	\$0	\$101,28
Rate Class: G	S >50KW-200						
2006							\$
2007							\$(
2008					\$3,704		\$3,70
2009					\$534		\$53 ₄
2010							\$
Total	\$0	\$0	\$0	\$0	\$4,238	\$0	\$4,238
Rate Class: G	S 200KW-1000)					
2006							\$0
2007							\$
2008					\$3,459		\$3,45
2009					\$174		\$17
2010							\$
Total	\$0	\$0	\$0	\$0	\$3,632	\$0	\$3,63
Rate Class: U	nmetered Sca	ttered Load					
2006							\$(
2007					\$13,492		\$13,492
2008							\$
2009							\$
2010							\$(
Total	\$0	\$0	\$0	\$0	\$13,492	\$0	\$13,492
Total of all Ra	te Classes						
2006	\$0	\$0	\$0	\$0	\$10,240	\$0	\$10,240
2007	\$0	\$0	\$0	\$0	\$39,927	\$0	\$39,92
2008	\$0	\$0	\$0	\$0	\$80,155	\$0	\$80,15
2009	\$0	\$0	\$0	\$0	\$74,629	\$0	\$74,62
2010	\$0	\$0	\$0	\$0	\$0	\$0	\$
Total	\$0	\$0	\$0	\$0	\$204,951	\$0	\$204,95

g) Oshawa is applying for recovery of carrying charges for revenue lost throughout 2011 to be collected throughout 2013.

Response to Board Staff Interrogatories

August 26, 2012 Page 14 of 14

h) Table below shows carrying charges by month for this LRAM request.

	ges by month		4			~
а	b	С	d	е	f	g
Year	Month	Monthly Lost Revenue (1)	Closing Balance	Prescribed Interest Rate (2)	Prescribed Interest Rate (monthly)	Interest \$ (d x f)
	January	\$19,324.47	\$19,324.47	1.470%	0.123%	\$23.67
	February	\$19,324.47	\$38,648.93	1.470%	0.123%	\$47.34
	March	\$19,324.47	\$57,973.40	1.470%	0.123%	\$71.02
	April	\$19,324.47	\$77,297.87	1.470%	0.123%	\$94.69
	May	\$19,324.47	\$96,622.34	1.470%	0.123%	\$118.36
2011	June	\$19,324.47	\$115,946.80	1.470%	0.123%	\$142.03
2011	July	\$19,324.47	\$135,271.27	1.470%	0.123%	\$165.71
	August	\$19,324.47	\$154,595.74	1.470%	0.123%	\$189.38
	September	\$19,324.47	\$173,920.21	1.470%	0.123%	\$213.05
	October	\$19,324.47	\$193,244.67	1.470%	0.123%	\$236.72
	November	\$19,324.47	\$212,569.14	1.470%	0.123%	\$260.40
	December	\$19,324.47	\$231,893.61	1.470%	0.123%	\$284.07
	January		\$231,893.61	1.470%	0.123%	\$284.07
	February		\$231,893.61	1.470%	0.123%	\$284.07
	March		\$231,893.61	1.470%	0.123%	\$284.07
	April		\$231,893.61	1.470%	0.123%	\$284.07
	May		\$231,893.61	1.470%	0.123%	\$284.07
2012	June		\$231,893.61	1.470%	0.123%	\$284.07
2012	July		\$231,893.61	1.470%	0.123%	\$284.07
	August		\$231,893.61	1.470%	0.123%	\$284.07
	September		\$231,893.61	1.470%	0.123%	\$284.07
	October		\$231,893.61	1.470%	0.123%	\$284.07
	November		\$231,893.61	1.470%	0.123%	\$284.07
	December		\$231,893.61	1.470%	0.123%	\$284.07
	January	(\$19,324.47)	\$212,569.14	1.470%	0.123%	\$260.40
	February	(\$19,324.47)	\$193,244.67	1.470%	0.123%	\$236.72
	March	(\$19,324.47)	\$173,920.21	1.470%	0.123%	\$213.05
	April	(\$19,324.47)	\$154,595.74	1.470%	0.123%	\$189.38
	May	(\$19,324.47)	\$135,271.27	1.470%	0.123%	\$165.71
0040	June	(\$19,324.47)	\$115,946.80	1.470%	0.123%	\$142.03
2013	July	(\$19,324.47)	\$96,622.34	1.470%	0.123%	\$118.36
	August	(\$19,324.47)	\$77,297.87	1.470%	0.123%	\$94.69
	September	(\$19,324.47)	\$57,973.40	1.470%	0.123%	\$71.02
	October	(\$19,324.47)	\$38,648.93	1.470%	0.123%	\$47.34
	November	(\$19,324.47)	\$19,324.47	1.470%	0.123%	\$23.67
	December	(\$19,324.47)	\$0.00	1.470%	0.123%	\$0.00
Total						\$6,817.67

add carrying charges for 2010 lost revenues for 2010 programs not claimed in previous applications

Total carrying charges claimed in 2013 IRM \$6,989.48

⁽¹⁾ The lost revenue claimed is for revenue lost in 2011. Revenue was assumed to be lost evenly throughout 2011 and subsequently collected (through rate riders) evenly throughout 2013.

⁽²⁾ The interest rate used is the average of the OEB prescribed interest rates for deferral and variance accounts from Q1 2011 to Q3 2012.



Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to VECC Interrogatories August 26, 2012 Page 1 of 8

VECC Question #1

Reference: Manager's Summary, Page 7 LRAM/SSM Recovery Rate Adder

<u>Preamble</u>: Oshawa indicates that for the reasons presented in its 2012 rate application it has included its request to recover LRAM and SSM amounts, as applicable, in this application.

- a) Please include specific reference(s) to the evidence or an agreement/decision in EB-2011-0073 to support the above statement.
- b) Please summarize the reasons presented in Oshawa's 2012 COS rate application for Oshawa to include its LRAM request in this application.
- c) Please confirm the scope of the LRAM recovery approved in Oshawa's 2012 COS rate application.

OPUCN Response:

- a) In Oshawa's 2012 rate application filing dated May 31, 2012 it was noted that "As the 2010 OPA final program results are not yet available, only the 2010 savings from previously confirmed programs have been included", ref EB-2011-0073, Exhibit 8, Page 13 of 35.
 Further, VECC interrogatory # 31 (b) regarding Oshawa's 2012 COS rate application asked to "Please indicate when the final results will be available and how this will be dealt with". The response given was "OPA have not confirmed when 2010 will be available. OPUCN will apply for recovery at the next available opportunity".
- b) See above response.
- c) The LRAM recovery approved in Oshawa's 2012 COS rate application covered lost revenue in 2010 arising from various programs initiated between 2006 and 2009.

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to VECC Interrogatories August 26, 2012 Page 2 of 8

VECC Question #2

Reference: Manager's Summary, Page 7 LRAM/SSM Recovery Rate Adder

<u>Preamble</u>: Oshawa indicates that this application includes an application for LRAM Recovery Rate Riders to be effective from January 1, 2013 through December 31, 2013 to recover revenue lost in 2010 from programs implemented in 2010 and revenue lost in 2011 from programs implemented up to the end of 2010. VECC notes that the LRAM Calculation Worksheet includes revenue lost in 2010 from programs implemented between 2006 and 2010.

- a) VECC is unclear of the scope of the LRAM claim in this application. Please confirm.
- b) Please provide the program results and evaluation reports that Oshawa has received from the OPA that supports this LRAM request.
- c) Please confirm that the LRAM amounts Oshawa is seeking to recover in this application are new amounts not included in past LRAM claims.
- d) Please summarize all prior LRAM claims.
- e) Please discuss why Oshawa did not retain a 3rd party to verify its CDM results.

OPUCN Response:

- a) The LRAM recovery claimed in Oshawa's rate application covers lost revenue in 2011 arising from various programs initiated between 2006 and 2010, and lost revenue in 2010 arising from various programs initiated between 2006 and 2010 that was not claimed in Oshawa's 2012 COS rate application as final program results for 2010 had not been released by the OPA at the time of filing.
- See file "2006-2010 Final OPA CDM Results Oshawa PUC Networks Inc" received from the OPA and used for the KWh savings calculations in this claim.
- c) Confirmed. Lost revenue requested in this application is only for 2010 and 2011 lost revenue not previously claimed.
- d) See Oshawa response 5. f) to Board Staff Interrogatories.
- e) Oshawa is claiming LRAM principally for OPA programs and relies on the analyses, evaluations, and assessments performed by the OPA in their process of identifying program initiatives. The non-OPA programs for which LRAM is

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to VECC Interrogatories August 26, 2012 Page 3 of 8

being claimed are continuing from 2006 and 2007 and have previously been approved. In Oshawa's opinion the amounts involved do not warrant another third party review.

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to VECC Interrogatories August 26, 2012 Page 4 of 8

VECC Question #3

Reference: Application, Page 8

<u>Preamble:</u> The Table on Page 8 includes 2010 program amounts pertaining to 2010 (not previously claimed) and 2011.

a) Please reproduce the Table to show 2011 separately.

OPUCN Response:

a) Lost revenue is shown separately below for years 2011 and 2010.

2011 lost revenue amounts

Total Net KWh Saved	Year (star	Year (start of program)									
Rate Class	2006	2007	2008	2009	2010	Grand Total					
Residential	816,921	2,107,712	2,418,521	1,219,530	1,291,938	7,854,621					
Commercial			2,452,430	3,369,772	1,039,262	6,861,464					
GS >50KW-200			3,411,434	671,432	118,111	4,200,977					
GS 200KW-1000			3,561,589	211,996	107,554	3,881,139					
Unmetered Scattered Load		757,957				757,957					
Grand Total	816,921	2,865,669	11,843,974	5,472,730	2,556,865	23,556,158					

Total LRAM	Year (start program)	of				
Rate Class	2006	2007	2008	2009	2010	Grand Total
Residential	\$10,007	\$25,819	\$29,627	\$14,939	\$15,826	\$96,218
Commercial			\$43,927	\$60,358	\$18,615	\$122,900
GS >50KW-200			\$2,641	\$544	\$129	\$3,314
GS 200KW-1000			\$2,413	\$177	\$114	\$2,703
Unmetered Scattered Load		\$13,576				\$13,576
Grand Total	\$10,007	\$39,395	\$78,607	\$76,017	\$34,684	\$238,711

2010 lost revenue amounts

Total Net KWh Saved Year (start of program)							
Rate Class	2006	2007	2008	2009	2010	Grand Total	
Residential					1,320,389	1,320,389	
Commercial					1,039,262	1,039,262	
GS >50KW-200					674,146	674,146	
GS 200KW-1000					723,900	723,900	
Unmetered Scattered Load						0	
Grand Total	0	0	0	0	3,757,698	3,757,698	

Total LRAM	Year (start o program)	f				
Rate Class	2006	2007	2008	2009	2010	Grand Total
Residential					\$16,438	\$16,438
Commercial					\$17,947	\$17,947
GS >50KW-200					\$4,377	\$4,377
GS 200KW-1000					\$4,362	\$4,362
Unmetered Scattered Load						\$0
Grand Total	\$0	\$0	\$0	\$0	\$43,125	\$43,125

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to VECC Interrogatories August 26, 2012 Page 5 of 8

VECC Question #4

Reference: LRAM Calculation Worksheet

- a) Please provide a summary explanation of the Sheets provided in the LRAM excel worksheet filed on July 27, 2012.
- b) Please provide the LRAM amounts for 2011 separately.
- c) List and confirm OPA's input assumptions for Every Kilowatt Counts (EKC) 2006 to 2010 including the measure life, unit kWh savings and free ridership for Compact Fluorescent Lights (CFLs) and Seasonal Light Emitting Diodes (LED). Confirm some of these assumptions were changed in 2007 and again in 2009 and compare the values.
- d) Adjust the LRAM claim as necessary to reflect the measure lives and unit savings for any/all measures that have expired starting in 2010.
- e) Demonstrate that savings for EKC 2006 Mass Market measures 13-15 W Energy Star CFLs & Seasonal LEDs have been removed from the LRAM claim in 2010.
- f) Adjust the LRAM claim as necessary to reflect the measure lives and unit savings for any/all measures that have expired in 2010.

OPUCN Response:

a) The table below shows summary explanation of the Sheets provided in the LRAM excel worksheet filed.

worksheet	Explanation
Rate Rider	Calculation of proposed rate rider based on Lost Revenue calculated on LRAM worksheets, and Volume per consumption from 2012 Cost of Service application. Rate Rider calculation is calculated as Lost Revenue / Volume.
Mgr Summary	Summary of KWh and Lost Revenues by Rate Class and program year. Table includes data from the "LRAM" and "LRAM prior year" sheets.

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to VECC Interrogatories August 26, 2012 Page 6 of 8

worksheet	Explanation
LRAM	Calculation of lost revenue by program, for the current year claimed (2011). Total Net KWh Saved for OPA programs are per the OPA's "2006-2010 Final OPA CDM Results" report. Other Programs are per Oshawa's internal 3rd Tranche MARR program details. Programs are organized by rate class, and lost revenue is calculated by multiplying the volumns saved by the rate in effect for each rate class. Carrying charges are added for the period of time from when revenues were lost to proposed collection through rate riders.
LRAM prior year	Same calculations as the "LRAM" sheet except calculations are for 2010 lost revenues not previously claimed. Programs listed are 2010 programs only, which were not available on the previous Final OPA CDM Report.
Other Program detail	Calculations of lost revenue for Oshawa's 3rd Tranche MARR 2006 and 2007 programs. Calculations are based on technology and # of units for each program. Effective useful life and savings per unit are updated for the current year per latest OPA assumption reports.
ERIP assumptions	Energy Retrofit Incetive Program (ERIP) volume breakdown by customer type per Oshawa program records. Breakdown is used to apply to Final OPA CDM Results report ERIP volume to get volumes by rate class in order to calculate lost revenue.
C&I load assumptions	Commercial and Industrial billed volume breakdown, used to apply to Final OPA CDM Results report Total High Performance New Construction and Other Customer Based Generation programs to get volumnes by rate class in order to calculate lost revenue.
Prescribed Interest Rate	OEB Prescribed Interest rates by quarter for use in carrying charge calculations.

- b) Please refer to the first "Lost Revenues and Load by Class and Program Summary" table provided in the application for the 2011 LRAM amount calculations.
- c) OPA's input assumptions for Every Kilowatt Counts (EKC) 2006 to 2010 including the measure life, unit kWh savings and free ridership for Compact Fluorescent Lights (CFLs) and Seasonal Light Emitting Diodes (LED) are shown below. The table below confirms the assumptions have changed. Oshawa notes that the total lost revenue in this application pertaining to these measures for these programs totals \$22,062, which is not significant enough to impact the residential LRAM rate rider in this claim.

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to VECC Interrogatories August 26, 2012 Page 7 of 8

OPA Conservation & Demand Management Programs Measure Results at End-User Level

For: Oshawa PUC Networks Inc.

Progr	Measure Name	U	nit Savings A	Assumption	ns
am Year		Gross Annual Energy Savings (kWh)	Net Annual Energy Savings (kWh)	Aggreg ate Net-to- Gross Adjust ment (%) ***	Effective Useful Life (EUL)
2006	Energy Star® Compact Fluorescent Light Bulb - Spring Campaign	104.40	93.96	90.00	4.00
2006	Seasonal Light Emitting Diode Light String - Autumn Campaign	30.75	27.68	90.00	30.00
2007	15 W CFL	43.00	33.54	78.00	8.00
2007	20+ W CFL	62.10	48.44	78.00	8.00
2008	Energy Star® Qualified Compact Fluorescent Light Bulbs	52.96	27.67	52.26	8.00
2009	Energy Star Qualified Compact Fluorescent - Spring Campaign - Participant Rebated	23.17	15.92	68.73	8.00
2009	Installed CFLs - Spring Campaign - Participant Spillover	101.42	13.30	13.11	8.00
2009	Energy Star Qualified Compact Fluorescent - Spring Campaign - Non-Participant Rebated	22.41	7.79	34.77	8.00
2009	Energy Star Qualified Compact Fluorescent - Autumn Campaign - Participant Rebated	25.50	17.69	69.39	8.00
2009	Energy Star Qualified Compact Fluorescent - Autumn Campaign - Non-Participant Rebated	23.68	3.25	13.71	8.00
2009	Installed Energy Star® CFL Bulbs - Rewards for Recycling Campaign - Spillover	44.57	8.22	18.44	8.00
2010	Installed compact fluorescents that were not rebated-Spilllover Actions - Spring	0.00	5.75	0.00	8.00
2010	Installed compact fluorescent lights that were not those rebated by the Power Savings Event-Spillover Actions - Fall	0.00	7.95	0.00	8.00

*** Net after free ridership adjustment

- d) Oshawa has reviewed the data and confirms no adjustment to the LRAM claim is necessary for OPA programs. No savings have been claimed for expired programs beyond the expiry dates.
- e) No 2006 programs have been included in this application for 2010 lost revenue.
- f) Oshawa has reviewed the data and confirms no adjustment to the LRAM claim is necessary for OPA programs. No savings have been claimed for expired programs beyond the expiry dates.

Oshawa PUC Networks Inc 2013 IRM Rate Application EB-2012-0157 Response to VECC Interrogatories August 26, 2012 Page 8 of 8

VECC Question #5

Reference: LRAM Calculation Worksheet

- a) Identify all Mass Market measures (CFLs etc) installed in 2006 with measure lives of 4 years or less for which savings have been claimed in a prior LRAM claim.
- b) Please provide the input assumptions for the Third Tranche CDM Programs included in prior LRAM claims.
- c) Adjust the current Third Tranche LRAM claim as necessary to reflect the measure lives (and unit savings) for any/all measures that have expired in 2010.

OPUCN Response:

a) Mass Market measures installed in 2006 with measure lives of 4 years or less claimed in prior LRAM claims is shown below.

		D		Effective Useful Life	
_		Program			_
Source	Initiative Name	Year	Measure Name	(EUL)	LRAM claims
3rd Tranche	Retrofit Non-Profit				2006-2008 revenue
MARR	Housing	2006	15 W CFL Socket Replace	3	(2009 IRM, 2010 IRM)
					2006-2009 revenue
	Every Kilowatt		Energy Star® Compact Fluorescent		(2009 IRM, 2010 IRM,
OPA	Counts	2006	Light Bulb - Spring Campaign	4	2011 IRM)
					2006-2009 revenue
	Every Kilowatt		Energy Star® Compact Fluorescent		(2009 IRM, 2010 IRM,
OPA	Counts	2006	Light Bulb - Autumn Campaign	4	2011 IRM)

- b) See file "LRAM_VECC Interrogatories 5b detail.xls" for Third Tranche CDM Program calculations as included in prior LRAM claims.
- c) See file "LRAM_VECC Interrogatories 5c detail.xls" for a revised lost revenue calculation that removes the Christmas Light Retrofit 2006 program which has a 5 year useful life. Lost revenue impact for this program is \$146.11, which reduces the total lost revenue from \$281,835.83 to \$281,689.72. This change does not impact the rate rider, therefore Oshawa proposes to not make an adjustment to its claim.



#5 b) Input assumptions for Third Tranche CDM programs

2012 Cost of Service Application

			Year (start		Effective	Energy Savings per unit (kWh)	Total Energy Savings (kWh) before FR with #	Fran	Net kWh Saved			
Rate Class	Dragram	Technology		# of Units	Useful Life	,	Units	Ridership	(After FR)	Rate/ kWh	Loot D	evenue
	Program	CFL 15 w Screw in	of program)	140	OSEIGI LITE	44.4				\$ 0.0124		69.29
Residential	Library Watt- Reader Program	CFL 15 W Screw In	2006	140	8	44.4	6,209	10%	5,588	\$ 0.0124	\$	
							6,209	•	5,588	-	<u>\$</u>	69.29
Residential	Residential Replace Bulk with Individual Meters	Individual Meters	2006	8	20	600.0	(1) 4,800	0%	4,800	\$ 0.0124	\$	59.52
	·						4,800	•	4,800		\$	59.52
Residential	Retrofit Non-Profit Housing	T8s	2006	143	18	32.9	4,698	0%	4,698	\$ 0.0124	Ś	58.25
Residential	Retrofit Non-Profit Housing	CFLs	2006	610	8	44.4	27,054	10%	24,348			301.92
Residential	Retrofit Non-Profit Housing	Exit Lights	2006	60	10	148.9	8,935	10%	8,042	\$ 0.0124	\$	99.72
Residential	Retrofit Non-Profit Housing	Christmas Light Retrofit	2006	900	5	13.5	12,150	5%	11,543	\$ 0.0124	\$	143.13
							52,836		48,630		\$	603.01
Total Residential							63,845		59,018		\$	731.82
Unmetered Scatte	ered Retro Fit Traffic Signal Lights with LED Fixtures	LED Fixtures (Note 1)	2007	156	10	6,941.0	(1) 1,082,796	30% (2	2) 757,957	\$ 0.0176	\$	13,340.05
Total Unmetered S	Scattered Load						1,082,796		757,957		\$	13,340.05
Total Other Progra	ams						1,146,641		816,975		\$	14,071.87

⁽¹⁾ no OPA inputs found, previous inputs used.

⁽²⁾ Freerider rate of 30% was based on Toronto Hydro decision.

#5 b) Input assumptions for Third Tranche CDM programs

2011 IRM

							Energy							
							Savings	Total Energy						
				Year (start		Effective	per unit	Savings (kWh)	Free	Net kWh				
			Funding	of	# of	Useful	(kWh)	before FR with	Riders	Saved (After	Rate	e/ kWh or	Lost	Revenue
Rate Class	Program	Technology	Mechanism	program)	Units	Life	before FR	# Units	hip	FR)	. KW	2009	2009	
Residential	Library Watt- Reader Program	CFL 15 w Screw in	3rd Tranche MA	2006	140	8	44.4	6,209	10%	5,588	\$	0.0127	\$	70.97
Residential	Residential Replace Bulk with Individual Meters	Individual Meters	3th Tranche MA	2006	8	20	600.0	4,800	0%	4,800	\$	0.0127	\$	60.96
Residential	Retrofit Non-Profit Housing	T8s	3rd Tranche MA	2006	143	18	32.9	4,698	0%	4,698	\$	0.0127	\$	59.66
Residential	Retrofit Non-Profit Housing	CFLs	3rd Tranche MA	2006	610	8	44.4	27,054	10%	24,348	\$	0.0127	\$	309.22
Residential	Retrofit Non-Profit Housing	Exit Lights	3rd Tranche MA	2006	60	10	148.9	8,935	10%	8,042	\$	0.0127	\$	102.13
Residential	Retrofit Non-Profit Housing	Christmas Light Retrofit	3rd Tranche MA	2006	900	5	13.5	12,150	5%	11,543	\$	0.0127	\$	146.59
Residential To	tal							63,845		59,018			\$	749.53
Unmetered Sca	tter Retro Fit Traffic Signal Lights with LED Fixtures	s LED Fixtures (Note 1)	3rd Tranche MA	2007	156	10	6,941.0	1,082,796	30%	757,957	\$	0.0226	\$	17,129.83
Unmetered Sca	attered Load Total							1,082,796		757,957			\$	17,129.83
Grand Total			•	•	•	•	•	1,146,641	•	816,975			\$	17,879.36

Note 1: Freerider rate of 30% used in SSM and LRAM was based on Toronto Hydro decision. No OPA inputs found, previous inputs used.

#5 b) Input assumptions for Third Tranche CDM programs

2010 IRM

							i otai							
							Energy	Total Energy						
							Savings	Savings (kWh)	Free	Net kWh or	Rate/ kWh			
				Year (start		Effective	(kWh)	before FR with #	Riders	kW Saved	or KW	Lost Revenue	Tot	al Lost
Rate Class	Program	Technology	Funding Mechanism	of program)	# of Units	Useful Life	e before FR	Units	hip	(After FR)	. 2008	2008	Rev	venue
Residential	Library Watt- Reader Program	CFL 15 w Screw in	3rd Tranche MARR	2006	140	8	43.0	6,020	10%	5,418	\$ 0.0119	\$ 64.47	\$	64.47
Residential	Residential Replace Bulk with Individual Meters	Individual Meters	3th Tranche MARR	2006	8	20	600.0	4,800	0%	4,800	\$ 0.0119	\$ 57.12	\$	57.12
Residential	Retrofit Non-Profit Housing	T8s	3rd Tranche MARR	2006	143	16	37.2	5,320	0%	5,320	\$ 0.0119	\$ 63.30	\$	63.30
Residential	Retrofit Non-Profit Housing	CFLs	3rd Tranche MARR	2006	610	8	43.0	26,230	10%	23,607	\$ 0.0119	\$ 280.92	\$	280.92
Residential	Retrofit Non-Profit Housing	15 W CFL Socket Replace	3rd Tranche MARR	2006	56	3	174.0	9,744	10%	8,770	\$ 0.0119	\$ 104.36	\$	104.36
Residential	Retrofit Non-Profit Housing	Exit Lights	3rd Tranche MARR	2006	60	10	149.0	8,940	10%	8,046	\$ 0.0119	\$ 95.75	\$	95.75
Residential	Retrofit Non-Profit Housing	Christmas Light Retrofit	3rd Tranche MARR	2006	900	5	13.7	12,330	5%	11,714	\$ 0.0119	\$ 139.39	\$	139.39
Residential Total								73,384		67,674		\$ 805.32		
Unmetered Scatter	red Li Retro Fit Traffic Signal Lights with LED Fixtures	LED Fixtures (Note 1)	3rd Tranche MARR	2007	156	10	6,941.0	1,082,796	30%	757,957	\$ 0.0195	\$ 14,780.17	\$	14,780.17
Unmetered Scatte	ered Load Total							1,082,796		757,957		\$ 14,780.17		
Grand Total	<u> </u>	<u> </u>	·					1,156,180		825,631		\$ 15,585.48		

Note 1: Freerider rate of 30% used in SSM and LRAM was based on Toronto Hydro decision.

#5 b) Input assumptions for Third Tranche CDM programs

2009 IRM

														LIXAWI				
Rate Class	Source (including Life/ Energy Savings)	Program	Technology	Funding Mechanism	Year Impleme nted	# of Units	Duration of Program	Measure Life		al S ergy (l vings F	Total Energy Savings kWh) before R with # Jnits		Net kWh or kW Saved (After FR)	Rate/ Lc kWh 2006 20	ost Revenue 106	Rate/ Lo kWh 2007 20	ost Revenue 007	Total Lost Revenue
Residential	OEB Web Site	Library Watt- Reader Program	CFL 15 w Screw in	3rd Tranche MARR	2006	140	6 Month	4	104	3	14,560	10%	13,104	\$ 0.0107 \$	140.21	0.0108 \$	141.52	\$ 281.74
Residential	OEB Web Site	Retrofit Non-Profit Housing	T8s	3rd Tranche MARR	2006	143	1 Month	5	288	11	41,184	0%	41,184	\$ 0.0107 \$	440.67	0.0108 \$	444.79	\$ 885.46
Residential	OEB Web Site	Retrofit Non-Profit Housing	CFLs	3rd Tranche MARR	2006	610	1 Month	4	104	21	63,440	10%	57,096	\$ 0.0107 \$	610.93	0.0108 \$	616.64	\$ 1,227.56
Residential	EnerSpectrum Group Report	Retrofit Non-Profit Housing	15 W CFL Socket Replace	3rd Tranche MARR	2006	56	1 Month	2.5	174	2	9,744	10%	8,770	\$ 0.0107 \$	93.83	0.0108 \$	94.71	\$ 188.55
Residential	OEB Web Site	Retrofit Non-Profit Housing	Exit Lights	3rd Tranche MARR	2006	60	1 Month	25	237	1	14,220	10%	12,798	\$ 0.0107 \$	136.94	0.0108 \$	138.22	\$ 275.16
Residential	OEB Web Site	Retrofit Non-Profit Housing	Christmas Light Retrofit	3rd Tranche MARR	2006	900	1 Month	30	19	2	17,100	5%	16,245	\$ 0.0107 \$	173.82	0.0108 \$	175.45	\$ 349.27
Residential	EnerSpectrum Group Report	Residential Replace Bulk with Individual Meters	Individual Meters	3th Tranche MARR	2006	8	1 Month	20	240	2	4,800	0%	4,800	\$ 0.0107 \$	51.36	0.0108 \$	51.84	\$ 103.20
Unmetered Scatteri	EnerSpectrum Group Report	Retro Fit Traffic Signal Lights with LED Fixtures	LED Fixtures (Note 1)	3rd Tranche MARR	2007	156	4 Months (Estimate)	10	6941	87	1,082,796	30%	757,957	\$ - \$	-	0.0108 \$	8,185.94	\$ 8,185.94
	Totals									_	1,247,844	- -	911,954	\$	1,647.76	\$	9,849.10	\$ 11,496.86

Note 1: Freerider rate of 30% used in SSM and LRAM was based on Toronto Hydro decision.



LRAM Total Amounts and Rate Rider by Class

Customer Class	ir	Lost Revenue ncluding Carrying Charges		Metric	Proposed Rate Rider
Residential	\$	112,510.21	496,447,375	kWh	\$0.0002
GS < 50 kW	\$	140,846.34	132,319,612	kWh	\$0.0011
GS 50 to 999 kW (I1 & I4)	\$	14,756.98	917,360	kW	\$0.0161
Unmetered Scattered Load	\$	13,576.20	3,208,502	kWh	\$0.0042
TOTALS	\$	281,689.72			

Total Net KWh Saved	Year (start of pro	Year (start of program)											
Rate Class	2006	2007	2008	2009	2010 ⁽¹⁾	Grand Total							
Residential	804,993	2,107,712	2,418,521	1,219,530	2,612,326	9,163,082							
Commercial			2,452,430	3,369,772	2,078,525	7,900,726							
GS >50KW-200			3,411,434	671,432	792,257	4,875,124							
GS 200KW-1000			3,561,589	211,996	831,454	4,605,040							
Unmetered Scattered Load		757,957				757,957							
Grand Total	804,993	2,865,669	11,843,974	5,472,730	6,314,563	27,301,929							

Total LRAM	Year (start of program)									
Rate Class	2006	2007	2008	2009	2010 ⁽¹⁾	Grand Total				
Residential	\$9,861	\$25,819	\$29,627	\$14,939	\$32,264	\$112,510				
Commercial			\$43,927	\$60,358	\$36,562	\$140,846				
GS >50KW-200			\$2,641	\$544	\$4,507	\$7,691				
GS 200KW-1000			\$2,413	\$177	\$4,476	\$7,066				
Unmetered Scattered Load		\$13,576				\$13,576				
Grand Total	\$9,861	\$39,395	\$78,607	\$76,017	\$77,809	\$281,690				

⁽¹⁾ Includes 2010 program amounts pertaining to 2010 (not previously claimed) and 2011

2013 IRM

2006-2010 programs (2011 programs not yet available)

Lost Revenues and Load by Class and Program Summary

Rate Class		Was distant			LRAM				Carrying		otal LRAM
		Year (start of	Results	Total Net KWh	Total Net			CI	narges (6)		including
Program	Funding Mechanism		Status	Saved	KW Saved	Rate	Lost Revenue				Carrying Charges
OPA PROGRAMS:		, , , , , , , , , , , , , , , , , , ,									Chartes
Every Kilowatt Counts	OPA 2006	2006	Final	533.464		\$ 0.0119	\$ 6,348.22	\$	186.64	\$	6.534.86
Secondary Refrigerator Retirement Pilot	OPA 2006	2006	Final	64,595		\$ 0.0119		\$	22.60	\$	791.28
Cool & Hot Savings Rebate	OPA 2006	2006	Final	159,459		\$ 0.0119		\$	55.79	\$	1,953.34
Great Refrigerator Roundup	OPA 2007	2007	Final	144,654		\$ 0.0119		\$	50.61	\$	1,771.99
Cool & Hot Savings Rebate	OPA 2007	2007	Final	262,935		\$ 0.0119		\$	91.99	\$	3,220.92
Every Kilowatt Counts	OPA 2007	2007	Final	1,556,871			\$ 18,526.76	\$	544.69	\$	19.071.45
Social Housing Pilot	OPA 2007	2007	Final	143.252		\$ 0.0119	+ -/	\$	50.12	\$	1.754.81
OPA Peaksaver Total	OPA2008	2008	Final	2.476	1)	\$ 0.0119		\$	0.87	\$	30.33
OPA Refrigerator Roundup Total	OPA2008	2008	Final	320,170	•	\$ 0.0119	*	\$	112.01	\$	3.922.03
Cool Savings Rebate	OPA2008	2008	Final	283,867			\$ 3,378.02	\$	99.31	\$	3,477.33
Every Kilowatt Counts Power Savings Event	OPA2008	2008	Final	1,434,711		\$ 0.0119		\$	501.95	\$	17,575.01
Summer Sweepstakes	OPA2008	2008	Final	377,298			\$ 4,489.84	\$	132.00	\$	4,621.85
OPA Peaksaver Total	OPA 2009	2009	Final	130 (1)	\$ 0.0119		\$	0.05	\$	1.59
OPA Refrigerator Roundup Total	OPA 2009	2009	Final	266,038	,		\$ 3,165.85	\$	93.08	\$	3,258.93
Cool Savings Rebate	OPA 2009	2009	Final	357,507		\$ 0.0119		\$	125.08	\$	4,379.41
Every Kilowatt Counts Power Savings Event	OPA 2009	2009	Final	595.854			\$ 7,090.67	\$	208.47	\$	7.299.13
OPA Peaksaver Total	OPA2010	2010	Final	1.019	11)	\$ 0.0119	* /	\$	0.36	\$	12.48
OPA Refrigerator Roundup Total	OPA2010 OPA2010	2010	Final	288,399	.')		\$ 3,431.95	\$	100.90	\$	3,532.85
Cool Savings Rebate	OPA2010	2010	Final	423,668		\$ 0.0119	+ -,	\$	148.22	\$	5,189.87
Every Kilowatt Counts Power Savings Event	OPA2010	2010	Final	206,540			\$ 2,457.82	\$	72.26	\$	2,530.08
Multi-Family Energy Efficiency Rebates	OPA2010 OPA2010	2010	Final	372,312		\$ 0.0119		\$	130.26	\$	4,560.77
Multi-r arminy Energy Efficiency Repailes	OFAZUIU	2010	I IIIai	372,312		φ 0.0119	φ 4,430.31	φ	130.20	Ψ	4,300.77
Residential Total				7,795,218			\$ 92,763.09	\$	2,727.23	\$	95,490.33
OPA Direct Install/Power Savings Blitz Total	OPA2008	2008	Final	22,768		\$ 0.0174	\$ 396.16	\$	11.65	\$	407.81
OPA Energy Retrofit Incetive Program (ERIP)	OPA2008	2008	Final	70,589 (2	2)	\$ 0.0174	\$ 1,228.25	\$	36.11	\$	1,264.36
High Performance New Construction	OPA2008	2008	Final	639 (3	3)	\$ 0.0174	\$ 11.12	\$	0.33	\$	11.45
Other Customer Based Generation	OPA2008	2008	Final	2,358,434 (3	3)	\$ 0.0174	\$ 41,036.75	\$	1,206.48	\$	42,243.23
OPA Direct Install/Power Savings Blitz Total	OPA 2009	2009	Final	2,825,559		\$ 0.0174	\$ 49,164.73	\$	1,445.44	\$	50,610.17
OPA Energy Retrofit Incetive Program (ERIP)	OPA 2009	2009	Final	524,624 (2	2)	\$ 0.0174	\$ 9,128.46	\$	268.38	\$	9,396.83
High Performance New Construction	OPA 2009	2009	Final	19.589 (3	3)	\$ 0.0174		\$	10.02	\$	350.87
OPA Direct Install/Power Savings Blitz Total	OPA 2010	2010	Final	957.718		\$ 0.0174		\$	489.93	\$	17,154.22
OPA Energy Retrofit Incetive Program (ERIP)	OPA 2010	2010	Final	16,325 (2	2)	\$ 0.0174		\$	8.35	\$	292.41
High Performance New Construction	OPA 2010	2010	Final	65,220 (3		\$ 0.0174		\$	33.36	\$	1,168.19
-											
Commercial Total				6,861,464			\$ 119,389.47	\$	3,510.05	\$	122,899.52
OPA Energy Retrofit Incetive Program (ERIP)	OPA2008	2008	Final	420,199 (2		\$ 3.5657		\$	12.10	\$	423.72
High Performance New Construction	OPA2008	2008	Final	810 (3		\$ 3.5657		\$	0.08	\$	2.68
Other Customer Based Generation	OPA2008	2008	Final	2,990,425 (3		\$ 3.5657		\$	63.26	\$	2,214.91
OPA Energy Retrofit Incetive Program (ERIP)	OPA 2009	2009	Final	646,594 (2		\$ 3.5657		\$	14.66	\$	513.19
High Performance New Construction	OPA 2009	2009	Final	24,838 (3		\$ 3.5657		\$	0.87	\$	30.39
OPA Energy Retrofit Incetive Program (ERIP)	OPA 2010	2010	Final	35,414 (2		\$ 3.5657		\$	0.80	\$	28.11
High Performance New Construction	OPA 2010	2010	Final	82,697 (3	35 (5)	\$ 3.5657	\$ 98.30	\$	2.89	\$	101.19
OC - FOKW 000 T-4-1				4 000 0==			A 2040.54		04.65	_	0.044.00
GS >50KW-200 Total				4,200,977			\$ 3,219.54	\$	94.65	\$	3,314.20

Lost Revenues and Load by Class and Program Summary

Rate Class		V (-tt			LRAM					Carrying	Total LRAM
		Year (start of	Results	Total Net KWh	Total Net					Charges (6)	including Carrying
Program	Funding Mechanism	program)	Status	Saved	KW Saved	Ra	te	Lost Revenue			Charges
OPA Energy Retrofit Incetive Program (ERIP)	OPA2008	2008	Final	245,910 (2)	68 (4)	\$ 3.5	5657	\$ 189.6	0 \$	5.57	\$ 195.17
High Performance New Construction	OPA2008	2008	Final	898 (3)	1 (5)	\$ 3.5	5657	\$ 2.6	0 \$	0.08	\$ 2.68
Other Customer Based Generation	OPA2008	2008	Final	3,314,781 (3)	767 (5)	\$ 3.5	5657	\$ 2,151.6	5 \$	63.26	\$ 2,214.91
OPA Energy Retrofit Incetive Program (ERIP)	OPA 2009	2009	Final	184,464 (2)	51 (4)	\$ 3.5	5657	\$ 142.2	2 \$	4.18	\$ 146.41
High Performance New Construction	OPA 2009	2009	Final	27,532 (3)	11 (5)	\$ 3.5	5657	\$ 29.5	3 \$	0.87	\$ 30.39
OPA Energy Retrofit Incetive Program (ERIP)	OPA 2010	2010	Final	15,888 (2)	4 (4)	\$ 3.5	5657	\$ 12.2	5 \$	0.36	\$ 12.61
High Performance New Construction	OPA 2010	2010	Final	91,666 (3)	35 (5)	\$ 3.5	5657	\$ 98.3	0 \$	2.89	\$ 101.19
GS 200KW-1000 Total				3,881,139				\$ 2,626.1	6 \$	77.21	\$ 2,703.36
Subtotal OPA programs				22,738,798				\$ 217,998.2	6 \$	6,409.15	\$ 224,407.41
OTHER PROGRAMS											
Library Watt- Reader Program Total	3rd Tranche MARR	2006		5,588		\$ 0.0	0119	\$ 66.5	0 \$	1.96	\$ 68.45
Residential Replace Bulk with Individual Meters	3rd Tranche MARR	2006		4,800		\$ 0.0	0119	\$ 57.1	2 \$	1.68	\$ 58.80
Retrofit Non-Profit Housing	3rd Tranche MARR	2006		37,087		\$ 0.0	0119	\$ 441.3	4 \$	12.98	\$ 454.32
Residential Total				47,475				\$ 564.9	6 \$	16.61	\$ 581.57
Retro Fit Traffic Signal Lights with LED Fixtures	3rd Tranche MARR	2007		757,957		\$ 0.0	0174	\$ 13,188.4	6 \$	387.74	\$ 13,576.20
Unmetered Scattered Load Total				757,957				\$ 13,188.4	6 \$	387.74	\$ 13,576.20
Subtotal other programs				805,433				\$ 13,753.4	1 \$	404.35	\$ 14,157.76
Grand Total				23,544,231				\$ 231,751.6	7 \$	6,813.50	\$ 238,565.17

- (1) Assumed all Peaksaver KWh's per OPA to be for the Residential Rate Class.
- (2) Total ERIP KWh's per the OPA were allocated to the Commercial, GS >50-200KW, and GS 200-1000KW Rate Classes based on the KWh savings by customer per OPUC ERIP project breakdown.
- (3) Total High Performance New Construction and Other Customer Based Generation KWh's per the OPA were allocated to the Commercial, GS >50-200KW, and GS 200-1000KW Rate Classes according to 2008 billed load, consistent with OPA allocation methodology to LDC's.
- (4) ERIP KW calculated based on KWh divided by 3640 hours assumed for industrial measures based on 14 hrs per day, M-F.
- (5) High Performance New Construction and Other Customer Based Generation KW calculated based on net summer peak KW savings per OPA final report.
- (6) Carrying charges are calculated for two years, representing revenue lost throughout 2011 to be recovered throughout 2013. The interest rate used is the average of the OEB prescribed interest rates for deferral and variance accounts from Q1 2011 to Q3 2012 (1.47%). Interest is not compounded.

Lost Revenues and Load by Class and Program Summary

Rate Class					LRAM				Carrying		Total LRAM
Program	Funding Mechanism	Year (start of program)	Results Status	Total Net KWh Saved	Total Net KW Saved	Rate	Lost Revenue	Ch	arges (6)		including Carrying Charges
OPA PROGRAMS:		•								1	
OPA Peaksaver Total	OPA2010	2010	Final	1,019 (1)		\$ 0.0124	\$ 12.64	\$	0.05	\$	12.69
OPA Refrigerator Roundup Total	OPA2010	2010	Final	288,399		\$ 0.0124	\$ 3,576.15	\$	14.30	\$	3,590.45
Cool Savings Rebate	OPA2010	2010	Final	423,668		\$ 0.0124	\$ 5,253.48	\$	21.01	\$	5,274.50
Every Kilowatt Counts Power Savings Event	OPA2010	2010	Final	234,991		\$ 0.0124	\$ 2,913.89	\$	11.66	\$	2,925.55
Multi-Family Energy Efficiency Rebates	OPA2010	2010	Final	372,312		\$ 0.0124	\$ 4,616.67	\$	18.47	\$	4,635.13
Residential Total				1,320,389			\$ 16,372.82	\$	65.49	# \$	16,438.31
OPA Direct Install/Power Savings Blitz Total	OPA 2010	2010	Final	957,718		\$ 0.0172	\$ 16,472.74	\$	65.89	\$	16,538.63
OPA Energy Retrofit Incetive Program (ERIP)	OPA 2010	2010	Final	16,325 (2)		\$ 0.0172	\$ 280.79	\$	1.12	\$	281.92
High Performance New Construction	OPA 2010	2010	Final	65,220 (3)		\$ 0.0172	\$ 1,121.78	\$	4.49	\$	1,126.27
Commercial Total				1,039,262			\$ 17,875.31	\$	71.50	\$	17,946.82
Demand Response 2	OPA 2010	2010	Final	537,003 (3)	484 (5)	\$ 3.7467	\$ 1,359.25	\$	5.44	\$	1,364.68
Demand Response 3	OPA 2010	2010	Final	19,033 (3)	1,024 (5)	\$ 3.7467	\$ 2,874.98	\$	11.50	\$	2,886.48
OPA Energy Retrofit Incetive Program (ERIP)	OPA 2010	2010	Final	35,414 (2)	10 (4)	\$ 3.7467	\$ 27.30	\$	0.11	\$	27.41
High Performance New Construction	OPA 2010	2010	Final	82,697 (3)	35 (5)	\$ 3.7467	\$ 98.30	\$	0.39	\$	98.70
GS >50KW-200 Total				674,146			\$ 4,359.83	\$	17.44	\$	4,377.27
Demand Response 2	OPA 2010	2010	Final	595,249 (3)	484 (5)	\$ 3.7467	\$ 1,359.25	\$	5.44	\$	1,364.68
Demand Response 3	OPA 2010	2010	Final	21,097 (3)	1,024 (5)	\$ 3.7467	\$ 2,874.98	\$	11.50	\$	2,886.48
OPA Energy Retrofit Incetive Program (ERIP)	OPA 2010	2010	Final	15,888 (2)	4 (4)	\$ 3.7467	\$ 12.25	\$	0.05	\$	12.30
High Performance New Construction	OPA 2010	2010	Final	91,666 (3)	35 (5)	\$ 3.7467	\$ 98.30	\$	0.39	\$	98.70
GS 200KW-1000 Total				723,900			\$ 4,344.77	\$	17.38	\$	4,362.15
Subtotal OPA programs				3,757,698			\$ 42,952.74	\$	171.81	\$	43,124.55
OTHER PROGRAMS											
Subtotal other programs				-			\$ -	\$	-	\$	-
Grand Total								\$	171.81	\$	43,124.55

	iges (u)			Carrying
				Charges
\$	0.05		\$	12.69
\$	14.30		\$	3,590.45
\$	21.01		\$	5,274.50
S S S S S	11.66		\$ \$	2,925.55
\$	18.47		\$	4,635.13
\$	65.49	#	\$	16,438.31
\$	65.89	i	\$	16,538.63
\$ \$	1.12		\$	281.92
\$	4.49		\$	1,126.27
\$	71.50		\$	17,946.82
\$	5.44	Ī	\$	1,364.68
\$ \$ \$	11.50		\$	2,886.48
\$	0.11		\$	27.41
\$	0.39		\$	98.70
\$	17.44		\$	4,377.27
\$	5.44		\$ \$ \$	1,364.68
\$	11.50		\$	2,886.48
\$	0.05		\$	12.30
\$	0.39		\$	98.70
\$	17.38	l	\$	4,362.15
\$	171.81		\$	43,124.55
\$	-		\$	-
1	171.81		\$	43,124.55

- (1) Assumed all Peaksaver KWh's per OPA to be for the Residential Rate Class.
- (2) Total ERIP KWh's per the OPA were allocated to the Commercial, GS >50-200KW, and GS 200-1000KW Rate Classes based on the KWh savings by customer per OPUC ERIP project breakdown.
- (3) Total High Performance New Construction, Other Customer Based Generation and Demand Response program KWh's per the OPA were allocated to the Commercial, GS >50-200KW, and GS 200-1000KW Rate Classes according to 2008 billed load, consistent with OPA allocation methodology to LDC's.
- (4) ERIP KW calculated based on KWh divided by 3640 hours assumed for industrial measures based on 14 hrs per day, M-F.
- (5) High Performance New Construction, Other Customer Based Generation and Demand Response program KW calculated based on net summer peak KW savings per OPA final report.

throughout 2010 to be recovered throughout 2013. (Carrying charges starting 2011 are included in the 2011 LRAM calculation.) The interest rate used is the average of the OEB prescribed interest rates for deferral and variance accounts from Q1 2010 to Q4 2010 (0.80%). Interest is not compounded.

Other Progra	m calculations	Oshawa PUC Networks I	nc	File Number	EB-2012-0	157							
Rate Class	Program	Technology	Funding Mechanism	Year (start	# of Units	Effective Useful Life (1)	Energy Savings per unit (kWh) before FR (1)	Total Energy Savings (kWh) before FR with # Units	Free Ridership	Net kWh Saved (After FR) R.	ate/ kWh	Lost	Revenue
Residential	Library Watt- Reader Program	CFL 15 w Screw in	3rd Tranche MARR	2006	140	8	44.4	6,209	10%	5,588 \$	0.0119	\$	66.50
								6,209	<u>.</u>	5,588		\$	66.50
Residential	Residential Replace Bulk with Individual Meters	Individual Meters	3th Tranche MARR	2006	8	20	600.0 (2)	4,800	0%	4,800 \$	0.0119	\$	57.12
								4,800	- -	4,800		\$	57.12
Residential	Retrofit Non-Profit Housing	T8s	3rd Tranche MARR	2006	143	18	32.9	4,698	0%	4,698 \$	0.0119	\$	55.90
Residential	Retrofit Non-Profit Housing	CFLs	3rd Tranche MARR	2006	610	8	44.4	27,054	10%	24,348 \$	0.0119	\$	289.74
Residential	Retrofit Non-Profit Housing	Exit Lights	3rd Tranche MARR	2006	60	10	148.9	8,935	10%	8,042 \$	0.0119	\$	95.70
								40,686		37,087		\$	441.34
Total Residen	tial							51,695		47,475		\$	564.96
Unmetered Se	Retro Fit Traffic Signal Lights with LED Fixtures	LED Fixtures (Note 1)	3rd Tranche MARR	2007	156	10	6,941.0 (2)	1,082,796	30% (3)	757,957 \$	0.0174	\$	13,188.46
Total Unmeter	ered Scattered Load							1,082,796		757,957		\$	13,188.46
Total Other P	rograms							1,134,491		805,433		\$	13,753.41
Notes (1) (2) (3)	no OPA inputs found, previous inputs used.		ons reports except where n	oted.									

2006 900 5 14.0 12,555 5% 11,927 \$ 0.0119 \$ 141.93

Christmas Light Retrofit

3rd Tranche MARR

Removed; assume technology expired end of 2010.

Residential Retrofit Non-Profit Housing