

EXHIBIT 9 - DEFERRAL AND VARIANCE ACCOUNTS

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DEFERRAL AND VARIANCE ACCOUNTS:

OVERVIEW

The information contained in this exhibit includes the status and description of PDI's deferral and variance accounts, the proposed disposition of certain account balances, and the rate riders required for recovery or refund of the account balances. Below is a summary of PDI's proposed rate riders.

Table 9-1 - 2013 Proposed Rate Riders

Rate Rider Description	Customer Class	Amount	Disposition Period
Deferral/Variance Accounts	Residential	-\$0.0013/kWh	1 Year
Deferral/Variance Accounts	GS < 50	-\$0.0013/kWh	1 Year
Deferral/Variance Accounts	GS > 50	-\$0.5284/kW	1 Year
Deferral/Variance Accounts	Large User	-\$0.6163/kW	1 Year
Deferral/Variance Accounts	Street Lighting	-\$0.6019/kW	1 Year
Deferral/Variance Accounts	Sentinel Lighting	-\$0.4974/kW	1 Year
Deferral/Variance Accounts	USL	-\$0.0014/kWh	1 Year
Stranded Meters	Residential	\$0.35/month	4 Years
Stranded Meters	GS < 50	\$5.12/month	4 Years
LRAM	Residential	\$0.0002/kWh	1 Year
LRAM	GS < 50	\$0.0003/kWh	1 Year
LRAM	GS > 50	\$0.0326/kW	1 Year

PREVIOUS DEFERRAL / VARIANCE ACCOUNT DISPOSITION

2012 IRM

On April 19, 2012 the Ontario Energy Board's Decision and Order EB-2011-0194 indicated PDI's Group 1 account balances exceeded the preset disposition threshold and approved disposition of the Group 1 account balances as of December 31st, 2010 over a one year period. The account balances were transferred to account 1595 and rates for disposition are approved until April 30, 2013.

2011 IRM

On March 17th 2011 the Board's Decision and Order EB-2010-0109 approved disposition of Group 1 account balances as of December 31st 2009. The account balances were transferred to account 1595 and disposition occurred over a one year period commencing May 1, 2011.

Disposition of Smart Meter Deferral Accounts

On June 14th 2012 the Board's Decision and Order EB-2012-0008 approved disposition of Account 1555 Smart Meter Capital and Recovery Offset Variance, except for stranded meters, and Account 1556 Smart Meter OM&A Variance. The Board approved a Smart Meter Disposition rate rider for a 22 month period from July 1, 2012 until April 30, 2014 and a Smart Meter Incremental Revenue Requirement rate rider for a 10 month period from July 1, 2012 until April 30, 2013.

Disposition of Deferred PILs

On September 27th 2012 the Board's Decision and Order EB-2012-0188 approved disposition of the balance in Account 1562 Deferred Payments in Lieu of Taxes. The account balance of \$1,494 was disposed of without the implementation of any rate riders and the balance was transferred to Account 1595 for future disposition.

STATUS OF DEFERRAL AND VARIANCE ACCOUNTS:

This Schedule contains the status of Deferral and Variance Accounts (“DVAs”) currently used by PDI. The balances as at December 31, 2011 and the proposed recovery amounts are summarized in Table 9-2 following the descriptions of each account:

GROUP 1 ACCOUNTS

1550 LV Variance Account

This Account is used to record the net of the low voltage transactions, which are not part of the electricity wholesale market. Monthly this account is used to record the net amounts charged by host distributor(s) to an embedded distributor for transmission or low voltage services (USofA 4750) and the amount billed to the embedded distributor’s customers based on approved LV rate(s) (USofA 4075). PDI uses the accrual method.

The Board prescribed interest rates are used to calculate the carrying charges and the interest is recorded in a sub-account.

For 2013, PDI is requesting disposition of the December 31, 2011 audited balance plus the forecasted interest through April 30, 2013 for account 1550. The requested amount is a debit of \$233,908.

1580 Retail Settlement Variance Account - Wholesale Market Service Charges

This account is used to record the net of the amount charged by the IESO based on the settlement invoice for the operation of the IESO-administered markets and the operation of the IESO-controlled grid, and the amount billed to customers using the OEB-approved Wholesale Market Service Rate. PDI uses the accrual method. The Board prescribed interest rates are used to calculate the carrying charges and the interest is recorded in a sub-account.

For 2013, PDI is requesting disposition of the December 31, 2011 audited balance plus the forecasted interest through April 30, 2013 for account 1580. The requested amount is a credit of (\$1,146,900).

1584 Retail Settlement Variance Account - Retail Transmission Network Charges

This account is used to record the net of the amount charged by Hydro One Networks Inc. and the IESO, based on the settlement invoice for transmission network services, and the amount billed to customers using the OEB-approved Retail Transmission Rate for network services. PDI uses the accrual method. The Board prescribed interest rates are used to calculate the carrying charges and the interest is recorded in a sub-account.

For 2013, PDI is requesting disposition of the December 31, 2011 audited balance plus the forecasted interest through April 30, 2013 for account 1584. The requested amount is a credit of (\$229,183).

1586 Retail Settlement Variance Account - Retail Transmission Connection Charges

This account is used to record the net of the amount charged by Hydro One Networks Inc. and the IESO, based on the settlement invoice for transmission connection services, and the amount billed to customers using the OEB-approved Retail Transmission Rate for connection services. PDI uses the accrual method. The Board prescribed interest rates are used to calculate the carrying charges and the interest is recorded in a sub-account.

For 2013, PDI is requesting disposition of the December 31, 2011 audited balance plus the forecasted interest through April 30, 2013 for account 1586. The requested amount is a debit of \$301,121.

1588 Retail Settlement Variance Account – Power (excluding Global Adjustment)

This account is used to recover the difference between the energy amount billed to customers and the energy charge to PDI using the settlement invoice from the Independent Electricity System Operator (IESO) and payments to embedded generators. PDI uses the accrual method. The variance between Board-approved and actual line losses is reflected in Account 1588 for the applicable period. The Board prescribed

1 interest rates are used to calculate the carrying charges and the interest is recorded in a
2 sub-account.

3 The December 31, 2011 audited balance plus the forecasted interest through April 30,
4 2013 for account 1588 - Power is a debit of \$1,533,657. PDI is not requesting a rate rider
5 to dispose of the balance at this time. The balance in this account has fluctuated during
6 2012 and PDI believes it would be premature to request recovery from customers.
7 Recovery of the December 31, 2011 debit balance in this account may result in a credit
8 balance at December 31, 2012 and a refund to customers in the 2014 rate year. PDI is
9 requesting a deferral of the disposition of the balance in Account 1588 – Power pending
10 further analysis.

11 **1588 Retail Settlement Variance Account - Power, Sub-account Global Adjustment**

12 This account is used to recover the difference between the provincial benefit amount
13 billed to customers and the global adjustment charge to PDI using the settlement invoice
14 from the IESO. PDI uses the accrual method. The Board prescribed interest rates are used
15 to calculate the carrying charges and the interest is recorded in a sub-account.

16 The December 31, 2011 audited balance plus the forecasted interest through April 30,
17 2013 for account 1588 sub account Global Adjustment is a debit of \$1,047,114. PDI is
18 not requesting a rate rider to dispose of the balance at this time. PDI will review the
19 balance of this account in conjunction with the analysis of Account 1588 – Power as
20 described in the previous section and is requesting a deferral of the disposition of the
21 balance in Account 1588 – Power, Sub-account Global Adjustment pending the outcome
22 of that analysis.

23 **1595 Disposition and Recovery/Refund of Regulatory Balances, Balances Approved in**
24 **2010**

25 This account is used to record the difference between the Board-approved deferral and
26 variance account balances transferred to Account 1595 in the year 2010 and the amounts
27 recovered (or refunded) in rates through regulatory asset or deferral and variance
28 accounts rate riders. The Board prescribed interest rates are used to calculate carrying

1 charges on the opening monthly net principal balance and the interest is recorded in a
2 sub-account.

3 For 2013, PDI is requesting disposition of the December 31, 2011 audited balance. The
4 requested amount is a credit of (\$222,048).

5

GROUP 2 ACCOUNTS

1508 Other Regulatory Assets – Sub-account IFRS Transition Costs -

PDI has not recorded any costs in this account as of December 31, 2011.

1508 Other Regulatory Assets – Sub-account Incremental Capital Charges

This account contains the incremental capital charges from Hydro One. The requested amount is a debit of \$15,080.

**1592 PILs and Tax Variances for 2006 and Subsequent Years, Sub-account HST/OVAT
Input Tax Credits (ITCs)**

This account is used to record the incremental ITC received on distribution revenue requirement items that were previously subject to PST and became subject to HST effective July 1, 2010. The Board prescribed interest rates are used to calculate the carrying charges.

For 2013, PDI is requesting disposition of the December 31, 2011 audited balance plus the forecast amount of HST savings for the 2012 Bridge Year and the first four months of 2013 and the forecasted interest through April 30, 2013 for account 1592 sub-account HST/OVAT Input Tax Credits. The requested amount is a credit of (\$25,616).

DEFERRAL AND VARIANCE ACCOUNT BALANCES

As per the filing requirements, PDI has performed a reconciliation of the 2011 Audited Financial Statements to the 2011 RRR submission in the table below. The only difference is an adjustment made to account 1508 for the Late Payment Charges that PDI had incorrectly recorded as a regulatory asset in its financial statements, and corrected it to be Receivable in its RRR reporting for Account 1110. The reconciliation between the 2011 Audited Financial Statements and the 2011 RRR appears in the table below:

Table 9-2 – 2011 Audited Financial Statements vs 2011 RRR Submission

		2011 AFS Dec 31, 2011		2011 RRR Dec 31, 2011	
Group 1 Deferral/Variance Accounts	Account	Balance	Adjustment	Balance	
LV Variance Account	1550	292,178		292,178	-
RSVA - Wholesale Market Service Charge	1580	(2,333,958)		(2,333,958)	-
RSVA - Retail Transmission Network Charge	1584	(566,527)		(566,527)	-
RSVA - Retail Transmission Connection Charge	1586	948,371		948,371	-
RSVA - Power (excluding Global Adjustment)	1588	1,235,592		1,235,592	-
RSVA - Power - Sub-Account - Global Adjustment	1588	384,476		384,476	-
Disposition of Regulatory Balances 2010	1595				-
Sub-Total		(39,868)		(39,868)	-
Group 2 Deferral/Variance Accounts					
Other Regulatory Assets - Incremental Capital Charges	1508	59,083	(44,286)	14,797	44,286
Other Regulatory Assets - Special Purpose Charge	1521	(104,480)		(104,480)	-
PILS and Tax Variance for 2006 and later - HST/OVAT	1592	-			-
Sub-Total		(45,397)		(89,683)	44,286
Group 1 & Group 2- Grand Total					
		(85,265)		(129,551)	44,286
Regulatory assets recovery	1595	92,765		92,765	-
Smart meter variance - Capital	1555	5,842,035		5,842,035	-
Smart meter variance - OM&A	1556	1,373,611		1,373,611	-
		<u>7,223,146</u>		<u>7,178,860</u>	44,286

The following Table 9-3 contains account balances as at December 31, 2011. The account balances shown in the table exclude amounts approved for disposition in 2012 by the Board.

Table 9-3 - December 31, 2011 Account Balances – Deferral and Variance Accounts

Group 1 Deferral/Variance Accounts		Principal Dec. 31, 2011	Interest Dec. 31, 2011	Total
LV Variance Account	1550	229,685	(260)	229,425
RSVA - Wholesale Market Service Charge	1580	(1,121,935)	(3,066)	(1,125,001)
RSVA - Retail Transmission Network Charge	1584	(222,715)	(2,121)	(224,836)
RSVA - Retail Transmission Connection Charge	1586	293,224	2,174	295,398
RSVA - Power (excluding Global Adjustment)	1588	1,493,165	11,345	1,504,510
RSVA - Power - Sub-Account - Global Adjustment	1588	1,010,763	16,621	1,027,384
Disposition of Regulatory Balances 2010	1595	(697,360)	475,312	(222,048)
Sub-Total		984,827	500,005	1,484,832
Group 2 Deferral/Variance Accounts				
Other Regulatory Assets - Incremental Capital Charges	1508	14,475	322	14,797
Smart Meter Stranded Meter Costs	1555	2,000,543	-	2,000,543
PILS and Tax Variance for 2006 and later - HST/OVAT	1592	(22,956)	-	(22,956)
Sub-Total		1,992,062	322	1,992,384
Group 1 & Group - Grand Total		2,976,889	500,327	3,477,216

The EDDVAR Continuity Schedule is provided in Appendix N to this Exhibit and will also be provided with this Application in Microsoft Excel format.

CARRYING CHARGES

Carrying charges on deferral and variance account balances have been calculated using the prescribed rates:

Table 9-4 – Interest Rates used to Calculate Carrying Charges

Quarter	Prescribed Interest Rate
Q1 2010	0.55%
Q2 2010	0.55%
Q3 2010	0.89%
Q4 2010	1.20%
Q1 2011	1.47%
Q2 2011	1.47%
Q3 2011	1.47%
Q4 2011	1.47%
Q1 2012	1.47%
Q2 2012	1.47%
Q3 2012	1.47%
Q4 2012	1.47%
Q1 2013	1.47%
April 2013 estimated	1.47%

PDI has not made any adjustments to deferral and variance account balances that were previously approved by the Board on a final basis.

ACCOUNT 1592 - PILS AND TAX VARIANCE

PDI's distribution rates for 2006 did not include an allowance for Large Corporation Tax and accordingly Account 1592 does not have a balance in this regard.

ACCOUNT 1592 – HST/OVAT SUB ACCOUNT

During the 2010 IRM application process, the Board directed electricity distributors to record in deferral account 1592 (PILs and Tax Variances, Sub-account HST/OVAT Input Tax Credits ("ITCs")), beginning July 1, 2010, the incremental ITCs received on distribution revenue requirement items that were previously subject to PST and became subject to HST.

In December 2010, as part of its Frequently Asked Questions on the Accounting Procedures Handbook for electricity distributors, the Board provided accounting guidance on this matter and provided a simplified approach designed to facilitate administrative cost-saving opportunities.

For the 2013 Test Year, entries to record variances in the sub-account of Account 1592 cover the period from July 1, 2010 to April 30, 2013 since the Test Year, which starts on May 1, 2013 includes the HST impacts in rates going forward.

PDI has recorded variances in the sub-account of Account 1592 in accordance with the example shown in December 2010 APH FAQ #4. The analysis provided below in the tables below supports the calculation of the HST savings.

Table 9-5 – Summary of HST Savings 2010 to 2012

	Monthly OM&A and Capital savings	Number of Months	Total HST Savings	50 % of Savings
2010	1,152	6	6,912	
2011	1,337	12	16,044	
Totals to the end of 2011			22,956	11,478
2012	1,706	12	20,472	
2013	1,706	4	6,824	
Total for 2012 and 2013			27,296	13,648
Total to April 30, 2013, excluding Interest				25,126

1 Table 9-6 – Detailed HST Savings 2010 to 2013

PST Savings on Capital Purchases

Impact from Annual Purchases

Purchases made annually until rebasing in 2013 have a total PST savings impact as follows:

Scenario:

Capital assets of \$1,384,000 are purchased in each year (2010 - 2012) before rebasing for 2013.

Depreciation is straight line over 25 years (as shown for 2010, 2011 and 2012 below.)

Pre-HST purchases with PST included in Assets

		Asset	Depreciation			
			2010	2011	2012	Total
2010 purchase	692,000	747,360	29,894	29,894	29,894	89,682
2011 purchase	1,384,000	1,494,720		59,789	59,789	119,578
2012 purchase	1,384,000	1,494,720			59,789	59,789
Total depreciation expense (A)			29,894	89,683	149,472	269,049

Post HST purchases with input tax credit included in Assets

2010 purchase	692,000	692,000	27,680	27,680	27,680	83,040
2011 purchase	1,384,000	1,384,000		55,360	55,360	110,720
2012 purchase	1,384,000	1,384,000			55,360	55,360
Total depreciation expense (B)			27,680	83,040	138,400	249,120

Total capital items PST savings (A) - (B)

2,214	6,643	11,072	19,929
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Summary of PST Savings from 2009 Historic Year Analysis

	2010	2011	2012	Jan - Apr 2013	Total
2009 Historic Year PST Analysis:					
OM&A expenses PST savings	4,700	9,400	9,400	3,133	26,633
Capital items PST savings	2,214	6,643	11,072	3,691	23,620
Total annual PST savings	6,914	16,043	20,472	6,824	50,253
Monthly PST savings	1,152	1,337	1,706	1,706	
50% of total PST savings					25,126

2

3

As required in the filing guidelines, the details of account 1592 are provided in the table below. It should be noted that as per the OEB's Frequently Asked Questions issued December 23, 2010, a contra account within 1592 is used to negate the impact of the HST credits below. Therefore, the audited financial statements for this account show a balance of zero while the amount reported for disposition appears below.

Table 9-7 – Detailed Account Balance of 1592 – Deferred PILs

Tax Item	Principal as of December 31, 2011
Large Corporation Tax grossed-up proxy from 2006 EDR application PILs model for the period from May 1, 2006 to April 30, 2007	\$ -
Large Corporation Tax grossed-up proxy from 2006 EDR application PILs model for the period from January 1, 2006 to April 30, 2006 (4/12ths of the approved grossed-up proxy), if not recorded in PILs account 1562	
Ontario Capital Tax rate decrease and increase in capital deduction for 2007	
Ontario Capital Tax rate decrease and increase in capital deduction for 2008	
Ontario Capital Tax rate decrease and increase in capital deduction for 2009	
Ontario Capital Tax rate decrease and increase in capital deduction for 2010	
Capital Cost Allowance class changes from 2006 EDR application for 2006	
Capital Cost Allowance class changes from 2006 EDR application for 2007	
Capital Cost Allowance class changes from 2006 EDR application for 2008	
Capital Cost Allowance class changes from 2006 EDR application for 2009	
Capital Cost Allowance class changes from 2006 EDR application for 2010	
Capital Cost Allowance class changes from 2006 EDR application for 2011	
Capital Cost Allowance class changes from any prior application not recorded above. Please provide details and explanation separately.	
HST/OVAT Input Tax Credits (ITC's)	-\$ 22,956
Total	-\$ 22,956

ONE-TIME INCREMENTAL IFRS COSTS

PDI has not recorded any incremental IFRS transition costs.

ACCOUNT 1575 – IFRS-CGAAP TRANSITIONAL PP&E AMOUNTS

As outlined in Exhibit 1 PDI did not transition to IFRS in 2012 or 2013 but rather has elected to defer adoption of IFRS until 2014. Accordingly, PDI has no balance in Account 1575 requiring disposition and Appendix 2-EB is not applicable to this application.

ACCOUNTS REQUESTED FOR DISPOSITION

PDI is requesting disposition of the variance accounts noted below according to the Report of the Board EB-2009-0046, which states that “at the time of rebasing, all Account balances should be disposed of unless otherwise justified by the distributor or as required by a specific Board decision or guideline.

PDI has followed the guidelines in the Report of the Board and requests disposition over a one-year period. PDI has provided a continuity schedule of the accounts listed below in Appendix N of this exhibit.

PDI is requesting the disposition of the following Group 1 and Group 2 Accounts shown in Table 9-7. These amounts are comprised of the audited balances as of December 31, 2011, less amounts approved for recovery in 2012, and the forecasted interest through April 30, 2013.

Table 9-8 - Deferral and Variance Accounts Disposition

		Principal	Interest	Principal to	Interest to	
		Dec. 31, 2011	Dec. 31, 2011	Apr. 30, 2013	Apr. 30, 2013	Total
Group 1 Deferral/Variance Accounts						
LV Variance Account	1550	229,685	(260)		4,483	233,908
RSVA - Wholesale Market Service Charge	1580	(1,121,935)	(3,066)		(21,899)	(1,146,900)
RSVA - Retail Transmission Network Charge	1584	(222,715)	(2,121)		(4,347)	(229,183)
RSVA - Retail Transmission Connection Charge	1586	293,224	2,174		5,723	301,121
RSVA - Power (excluding Global Adjustment)	1588	-	-		-	-
RSVA - Power - Sub-Account - Global Adjustment	1588	-	-		-	-
Disposition of Regulatory Balances 2010	1595	(697,360)	475,312		-	(222,048)
Sub-Total		(1,519,101)	472,039	-	(16,040)	(1,063,102)
Group 2 Deferral/Variance Accounts						
Other Regulatory Assets - Incremental Capital Charges	1508	14,475	322		283	15,080
PILS and Tax Variance for 2006 and later - HST/OVAT	1592	(11,478)	-	(13,648)	(490)	(25,616)
Sub-Total		2,997	322	(13,648)	(207)	(10,536)
Group 1 & Group 2- Grand Total		(1,516,104)	472,361	(13,648)	(16,247)	(1,073,638)

1 METHOD OF DISPOSITION

2 Allocators and Calculation of Rate Riders

3 PDI has allocated the Group 1 and Group 2 balances to each customer rate class and calculated
4 the resultant rate riders using the model provided in the 2013 EDVAR Continuity Schedule. The
5 amounts allocated to each customer class by the model and the rate riders by class are shown in
6 the following tables. The billing determinants are based on the 2013 Test Year forecast load data
7 and calculated for a one-year disposition period.

8 **Table 9-9 – Allocation by Customer Class, excluding Global Adjustment**

Rate Class (Enter Rate Classes in cells below)	Units	kW / kWh / # of Customers	Allocated Balance (excluding 1588 sub-account)	Rate Rider for Deferral/Variance Accounts
Residential	kWh	294,240,107	-\$ 389,556	- 0.0013
General Service < 50 kW	kWh	112,158,205	-\$ 146,468	- 0.0013
General Service > 50 kW	kW	862,025	-\$ 455,474	- 0.5284
Large User	kW	113,561	-\$ 69,982	- 0.6163
Street Lighting	kW	14,877	-\$ 8,955	- 0.6019
Sentinel Lighting	kW	1,993	-\$ 991	- 0.4974
Unmetered Scattered Load	kWh	1,632,744	-\$ 2,211	- 0.0014
Total			-\$ 1,073,638	

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STRANDED METER COSTS

PDI is seeking disposition of its stranded meter costs. PDI replaced 31,375 residential meters and 3,592 GS<50 meters resulting in stranded meter assets in the amount of \$1,412,163. A summary of these costs is shown in the table below.

Table 9-10 - Stranded Meter Costs

Year	Notes	Gross Asset Value	Accumulated Amortization	Contributed Capital (Net of Amortization)	Net Asset	Proceeds on Disposition	Residual Net Book Value
		(A)	(B)	(C)	(D) = (A) - (B) - (C)	(E)	(F) = (D) - (E)
2006					\$ -		\$ -
2007					\$ -		\$ -
2008					\$ -		\$ -
2009		\$ 1,679,841	\$ 854,151		\$ 825,690	\$ 5,089	\$ 820,601
2010		\$ 3,060,834	\$ 1,285,451	\$ 42,633	\$ 1,732,750	\$ 5,935	\$ 1,726,815
2011		\$ 3,060,834	\$ 1,442,777	\$ 42,633	\$ 1,575,424	\$ 5,935	\$ 1,569,489
2012	(1)	\$ 3,060,834	\$ 1,600,103	\$ 42,633	\$ 1,418,098	\$ 5,935	\$ 1,412,163

Note 1:

PDI transferred the net book value of stranded meters from Account 1860 to Account 1555 Smart Meter Capital and Recovery Offset Variance Account, Sub-account Stranded Meter Costs in 2009 and 2010. The amount recorded in Account 1555 net of contributed capital and proceeds from sales was \$2,000,543. PDI did not continue to depreciate these assets after they were transferred from Account 1860, but has calculated the additional depreciation to December 31, 2012 as \$588,280 and has reduced the net book value of the stranded meters at that date from \$2,000,543 to \$1,412,163. No carrying charges were applied to stranded meters. These are actual costs as PDI's smart meters have been fully deployed. PDI proposes to recover the net book value of stranded meters at December 31, 2012 through a monthly rate rider of \$0.35 applied to Residential customers and \$5.12 for GS<50 customers over a four-year period. PDI has chosen a four year recovery period that aligns with the period of this rate application to minimize the impact to its ratepayers.

Table 9-11 provides details of the rate rider calculation:

1 **Table 9-11 - Stranded Meter Rate Rider Calculation**

	Residential	GS	Total
NBV of Stranded Meter Assets at December 31, 2012	\$ 541,056	\$ 871,107	\$ 1,412,163
Forecast number of customers - 2013	31,758	3,547	
Proposed recovery period	4 years	4 years	
Monthly Stranded Meter Rate Rider	\$ 0.35	\$ 5.12	

2

GREEN ENERGY PLAN – RIDER

PDI has submitted a basic Green Energy Plan to the OPA and has provided a copy in Exhibit 2, Appendix C. The OPA provided a Letter of Comment which has been appended to the Green Energy Plan provided in Exhibit 2, Appendix D. PDI is not requesting a rate rider.

LRAM RECOVERY

Summary

PDI's 2012 rate application EB-2011-0194 filed under IRM requested the recovery of a Lost Revenue Adjustment Mechanism (LRAM) claim of \$686,841. PDI's LRAM claim consisted of the effect of 2005 to 2010 programs in 2005 through 2010 and the persisting effects of 2005 to 2010 programs through April 2012. Lost revenues by year and customer class were provided by PDI in response to Board staff interrogatory 3(f), and are summarized in the table on the following page.

PDI confirms that the load forecast has not been updated as part of a cost of service application since the CDM programs, for which persistent lost revenue is sought.

1 **Table 9-12 – Lost Revenues by Year and Customer Class**

Table 1. Lost Revenues from Residential Programs

Residential Programs	Lost Revenues by Year								Total
	2005	2006	2007	2008	2009	2010	2011	Jan 1 to Apr 30, 2012	
2005 programs	\$ 1,788	\$ 3,062	\$ 2,964	\$ 2,928	\$ 2,858	\$ 2,611	\$ 2,582	\$ 1,833	\$ 20,626
2006 programs	-	\$ 40,398	\$ 41,778	\$ 41,264	\$ 40,292	\$ 10,263	\$ 10,151	\$ 4,541	\$ 188,687
2007 programs	-	-	\$ 34,343	\$ 32,500	\$ 30,963	\$ 28,280	\$ 27,970	\$ 10,861	\$ 164,917
2008 programs	-	-	-	\$ 20,075	\$ 19,555	\$ 17,861	\$ 17,665	\$ 4,010	\$ 79,166
2009 programs	-	-	-	-	\$ 8,201	\$ 7,314	\$ 7,234	\$ 1,789	\$ 24,538
2010 programs	-	-	-	-	-	\$ 5,680	\$ 5,617	\$ 1,392	\$ 12,689
LRAM Total	\$ 1,788	\$ 43,460	\$ 79,085	\$ 96,767	\$ 101,869	\$ 72,009	\$ 71,219	\$ 24,426	\$ 490,623

Table 2. Lost Revenues from GS < 50 Programs

GS<50 Programs	Lost Revenues by Year								Total
	2005	2006	2007	2008	2009	2010	2011	Jan 1 to Apr 30, 2012	
2005 programs	\$ 2,998	\$ 5,249	\$ 4,611	\$ 3,331	\$ 3,538	\$ 3,325	\$ 1,648	\$ -	\$ 24,700
2006 programs	-	-	-	-	-	-	-	-	\$ -
2007 programs	-	-	-	-	-	-	-	-	\$ -
2008 programs	-	-	-	\$ 1,796	\$ 1,940	\$ 1,552	\$ 1,535	\$ 381	\$ 7,204
2009 programs	-	-	-	-	\$ 14,288	\$ 13,430	\$ 13,283	\$ 3,291	\$ 44,292
2010 programs	-	-	-	-	-	\$ 15,457	\$ 15,288	\$ 3,787	\$ 34,532
LRAM Total	\$ 2,998	\$ 5,249	\$ 4,611	\$ 5,127	\$ 19,766	\$ 33,764	\$ 31,754	\$ 7,459	\$ 110,728

Table 3. Lost Revenues from GS > 50 Programs

GS>50 Programs	Lost Revenues by Year								Total
	2005	2006	2007	2008	2009	2010	2011	Jan 1 to Apr 30, 2012	
2005 programs	-	-	-	-	-	-	-	-	\$ -
2006 programs	-	-	-	-	-	-	-	-	\$ -
2007 programs	-	-	-	-	-	-	-	-	\$ -
2008 programs	-	-	-	\$ 3,387	\$ 3,699	\$ 3,286	\$ 3,255	\$ 807	\$ 14,434
2009 programs	-	-	-	-	\$ 15,901	\$ 14,125	\$ 13,995	\$ 3,467	\$ 47,488
2010 programs	-	-	-	-	-	\$ 10,539	\$ 10,442	\$ 2,587	\$ 23,568
LRAM Total	\$ -	\$ -	\$ -	\$ 3,387	\$ 19,600	\$ 27,950	\$ 27,692	\$ 6,861	\$ 85,490

Total LRAM for all Classes	\$ 4,786	\$ 48,709	\$ 83,696	\$ 105,281	\$ 141,235	\$ 133,723	\$ 130,665	\$ 38,746	\$ 686,841
Cumulative	\$ 4,786	\$ 53,495	\$ 137,191	\$ 242,472	\$ 383,707	\$ 517,430	\$ 648,095	\$ 686,841	

Board staff submitted that it was premature to consider lost revenues in 2011 and 2012 and the Board approved a total LRAM claim of \$517,430 to be disposed of over a one year period from May 2, 2012 to April 30, 2013. The approved LRAM claim was comprised of lost revenues over the 2005 to 2010 period arising from CDM programs implemented from 2005 to 2010.

The Board did not approve PDI's claim for persisting lost revenues in 2011 of \$130,665 and \$38,746 for the first four months of 2012. These amounts included carrying charges of \$1,817 and \$153 respectively.

PDI herewith re-submits an application for the approval persisting lost revenues in 2011. It is requested that these amounts be recovered through a volumetric rate rider over a one-year period beginning May 1, 2013 with the foregone revenue from each customer class allocated to that class for recovery. Total amount for recovery is \$132,578, including carrying charges to April 30, 2013 of \$3,730. Amounts for LRAM recovery are summarized in the table below.

Table 9-13 - Summary of Requested LRAM Amounts and Rate Riders by Class

	LRAM	Carrying Charges	Total	2013 Forecasted Billed kWh / kW	Proposed Rate Rider
Residential	\$ 70,228	\$ 2,033	\$ 72,261	294,240,107	\$ 0.0002
GS<50	\$ 31,312	\$ 906	\$ 32,218	112,158,205	\$ 0.0003
GS>50	\$ 27,308	\$ 791	\$ 28,099	862,205	\$ 0.0326
Total	\$ 128,848	\$ 3,730	\$ 132,578		

PDI intends to apply for recovery of 2012 lost revenues arising from 2005 to 2010 CDM programs with its 2014 IRM rate application.

ACCOUNT 1568 - LRAM Variance Account

PDI reported \$0 balance in this account at December 31, 2011. The lost revenue for 2011 resulting from the OPA-Contracted Province-Wide CDM Programs or Board-Approved Programs will be calculated using the results reported in the Final 2011 Results Report issued by the Ontario Power Authority on August 31, 2012. PDI will record the resulting lost revenue for

- 1 2011 and estimated lost revenue for 2012 in Account 1568 at December 31, 2012 and will apply
- 2 for recovery of the balance with its 2014 IRM rate application.

ENERGY SALES AND COST OF POWER EXPENSE

A breakdown of energy sales and cost of power expense, as reported in the audited financial statements, by USofA account number is provided in the table below:

Table 9-14 – Sales of Electricity and Power Supply Expenses 2009-2011

Sales of Electricity	2009	2010	2011
4006-Residential Energy Sales	16,255,860	17,314,116	19,093,599
4010-Commercial Energy Sales	6,789,328	7,165,658	7,569,327
4015-Industrial Energy Sales	18,696,219	19,937,162	22,476,084
4020-Energy Sales to Large Users	3,344,036	3,341,702	3,685,607
4025-Street Lighting Energy Sales	316,586	335,923	365,180
4030-Sentinel Energy Sales	45,513	47,458	49,988
4055-Energy Sales for Resale	3,982,262	4,602,502	3,805,162
4062-WMS	4,969,892	4,309,996	4,321,848
4066-NS	3,857,435	4,236,283	4,241,024
4068-CS	2,441,168	2,619,172	2,996,925
4075-LV Charges	368,257	365,531	331,148
Sales of Electricity Total	61,066,556	64,275,503	68,935,892
Power Supply Expenses	2009	2010	2011
4705-Power Purchased	49,429,804	52,744,521	57,044,947
4708-WMS	4,969,892	4,309,996	4,321,848
4714-NW	3,857,435	4,236,283	4,241,024
4716-NCN	2,441,168	2,619,172	2,996,925
4750-LV Charges	368,257	365,531	331,148
Power Supply Expenses Total	61,066,556	64,275,503	68,935,892

PDI pro-rates the IESO Global Adjustment Charge into the RPP and non-RPP portions. The above amounts agree to the audited financial statements of PDI provided in Exhibit 1.

Appendix N

Regulatory Asset Continuity Schedule

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		2011												
Account Descriptions	Account Number	Opening Principal Amounts as of Jan-1-11	Transactions Debit/(Credit) during 2011 excluding interest and adjustments ³	Board-Approved Disposition during 2011	Other ² Adjustments during Q1 2011	Other ² Adjustments during Q2 2011	Other ² Adjustments during Q3 2011	Other ² Adjustments during Q4 2011	Closing Principal Balance as of Dec-31-11	Opening Interest Amounts as of Jan-1-11	Interest Jan-1 to Dec-31-11	Board-Approved Disposition during 2011	Adjustments during 2011 - other ²	Closing Interest Amounts as of Dec-31-11
Group 1 Accounts														
LV Variance Account	1550	-\$ 84,378	\$ 229,685	-\$ 144,855					\$ 290,162	-\$ 2,496	\$ 923	-\$ 3,589		\$ 2,016
RSVA - Wholesale Market Service Charge	1580	-\$ 1,430,673	-\$ 1,121,935	-\$ 242,121					-\$ 2,310,487	\$ 1,124	-\$ 26,314	-\$ 1,719		-\$ 23,471
RSVA - Retail Transmission Network Charge	1584	-\$ 459,414	-\$ 222,715	-\$ 122,599					-\$ 559,530	\$ 674	-\$ 8,709	-\$ 1,038		-\$ 6,997
RSVA - Retail Transmission Connection Charge	1586	\$ 1,227,985	\$ 293,225	\$ 589,852					\$ 931,358	\$ 11,187	\$ 14,656	\$ 8,830		\$ 17,013
RSVA - Power (excluding Global Adjustment)	1588	-\$ 32,964	\$ 1,493,165	\$ 251,514					\$ 1,208,687	\$ 69,175	\$ 5,780	\$ 48,050		\$ 26,905
RSVA - Power - Sub-account - Global Adjustment	1588	-\$ 225,459	\$ 1,010,763	\$ 404,834					\$ 380,470	\$ 11,337	\$ 4,293	\$ 11,624		\$ 4,006
Recovery of Regulatory Asset Balances	1590	\$ -							\$ -	\$ -				\$ -
Disposition and Recovery/Refund of Regulatory Balances (2008) ⁷	1595	\$ -							\$ -	\$ -				\$ -
Disposition and Recovery/Refund of Regulatory Balances (2009) ⁷	1595	\$ -							\$ -	\$ -				\$ -
Disposition and Recovery/Refund of Regulatory Balances (2010) ⁷	1595	-\$ 179,439	\$ 517,921						-\$ 697,360	\$ 475,640	-\$ 328			\$ 475,312
Group 1 Sub-Total (including Account 1588 - Global Adjustment)		-\$ 1,184,342	\$ 1,164,267	\$ 736,625	\$ -	\$ -	\$ -	\$ -	-\$ 756,700	\$ 566,641	-\$ 9,699	\$ 62,158	\$ -	\$ 494,784
Group 1 Sub-Total (excluding Account 1588 - Global Adjustment)		-\$ 958,883	\$ 153,504	\$ 331,791	\$ -	\$ -	\$ -	\$ -	-\$ 1,137,170	\$ 555,304	-\$ 13,992	\$ 50,534	\$ -	\$ 490,778
RSVA - Power - Sub-account - Global Adjustment	1588	-\$ 225,459	\$ 1,010,763	\$ 404,834	\$ -	\$ -	\$ -	\$ -	\$ 380,470	\$ 11,337	\$ 4,293	\$ 11,624	\$ -	\$ 4,006
Group 2 Accounts														
Other Regulatory Assets - Sub-Account - OEB Cost Assessments	1508	\$ -							\$ -	\$ -				\$ -
Other Regulatory Assets - Sub-Account - Pension Contributions	1508	\$ -							\$ -	\$ -				\$ -
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508	\$ -							\$ -	\$ -				\$ -
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508	\$ 14,475							\$ 14,475	\$ 80	\$ 242			\$ 322
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Variance - Ontario Clean Energy Benefit Act ⁸	1508	\$ -							\$ -					\$ -
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Carrying Charges	1508	\$ -							\$ -	\$ -				\$ -
Other Regulatory Assets - Sub-Account - Other ⁴	1508	\$ -							\$ -	\$ -				\$ -
Retail Cost Variance Account - Retail	1518	\$ -							\$ -	\$ -				\$ -
Misc. Deferred Debits	1525	\$ -							\$ -	\$ -				\$ -
Renewable Generation Connection Capital Deferral Account	1531	\$ -							\$ -	\$ -				\$ -
Renewable Generation Connection OM&A Deferral Account	1532	\$ -							\$ -	\$ -				\$ -
Renewable Generation Connection Funding Adder Deferral Account	1533	\$ -							\$ -	\$ -				\$ -
Retail Cost Variance Account - STR	1548	\$ -							\$ -	\$ -				\$ -
Board-Approved CDM Variance Account	1567	\$ -							\$ -	\$ -				\$ -
Extra-Ordinary Event Costs	1572	\$ -							\$ -	\$ -				\$ -
Deferred Rate Impact Amounts	1574	\$ -							\$ -	\$ -				\$ -
RSVA - One-time	1582	\$ -							\$ -	\$ -				\$ -
Other Deferred Credits	2425	\$ -							\$ -	\$ -				\$ -
Group 2 Sub-Total		\$ 14,475	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,475	\$ 80	\$ 242	\$ -	\$ -	\$ 322
Deferred Payments in Lieu of Taxes	1562	-\$ 849,995							-\$ 849,995	-\$ 186,848				-\$ 186,848
PILs and Tax Variance for 2006 and Subsequent Years (excludes sub-account and contra account below)	1592	\$ -							\$ -	\$ -				\$ -
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Input Tax Credits (ITCs)	1592	-\$ 6,912	\$ 16,044						-\$ 22,956	\$ -				\$ -
Total of Group 1 and Group 2 Accounts (including 1562 and 1592)		-\$ 2,026,774	\$ 1,148,223	\$ 736,625	\$ -	\$ -	\$ -	\$ -	-\$ 1,615,176	\$ 379,873	-\$ 9,457	\$ 62,158	\$ -	\$ 308,258
Special Purpose Charge Assessment Variance Account⁹	1521	\$ 130,179	-\$ 235,800						-\$ 105,621	\$ 1,437	-\$ 296			\$ 1,141
LRAM Variance Account	1568	\$ -							\$ -	\$ -				\$ -
Total including Account 1521 and Account 1568		-\$ 1,896,595	\$ 912,423	\$ 736,625	\$ -	\$ -	\$ -	\$ -	-\$ 1,720,797	\$ 381,310	-\$ 9,753	\$ 62,158	\$ -	\$ 309,399
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Capital ¹¹	1555	\$ 5,297,756	-\$ 280,276						\$ 5,017,480	\$ 126,532	\$ 70,015			\$ 196,547
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Recoveries ¹¹	1555	-\$ 914,705	-\$ 419,617						-\$ 1,334,322	-\$ 23,533	-\$ 14,681			-\$ 38,214
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter	1555	\$ 2,000,543							\$ 2,000,543	\$ -				\$ -
Smart Meter OM&A Variance ¹¹	1556	\$ 940,892	\$ 413,289						\$ 1,354,181	\$ 4,499	\$ 14,931			\$ 19,430
The following is not included in the total claim but are included on a memo basis:														
Deferred PILs Contra Account ⁵	1563	\$ 849,995							\$ 849,995	\$ 186,848				\$ 186,848
IFRS-CGAAP Transition PP&E Amounts ¹⁰	1575	\$ -							\$ -	\$ -				\$ -
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Contra Account	1592	\$ 6,912	\$ 16,044						\$ 22,956	\$ -				\$ -
Disposition and Recovery of Regulatory Balances ⁷	1595	\$ -	-\$ 489,386	-\$ 736,625					\$ 247,239	\$ -	\$ 5,416	-\$ 62,158		\$ 67,574

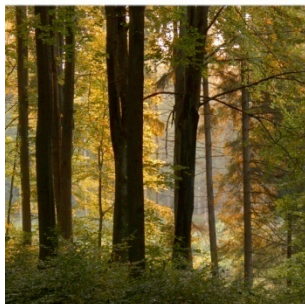
2012										Projected Interest on Dec-31-11 Balances			2.1.7 RRR		
Account Descriptions	Account Number	Principal Disposition during 2012 - Instructed by Board	Interest Disposition during 2012 - Instructed by Board	Adjustments during 2012 EB-2012-0188 PILS Principal	Adjustments during 2012 EB-2012-0188 PILS Interest	HST savings January 1, 2012 to April 30, 2013	Adjust Principal Balance to 50%	Closing Principal Balances as of Dec 31-11 Adjusted for Dispositions during 2012	Closing Interest Balances as of Dec 31-11 Adjusted for Dispositions during 2012	Projected Interest from Jan 1, 2012 to December 31, 2012 on Dec 31 -11 balance adjusted for disposition during 2012 ⁶	Projected Interest from January 1, 2013 to April 30, 2013 on Dec 31 -11 balance adjusted for disposition during 2012 ⁶	Total Claim	As of Dec 31-11	Variance RRR vs. 2011 Balance (Principal + Interest)	
Group 1 Accounts															
LV Variance Account	1550	\$ 60,477	\$ 2,276					\$ 229,685	\$ 260	\$ 3,376	\$ 1,107	\$ 233,908	\$ 292,178	\$ -	
RSVA - Wholesale Market Service Charge	1580	\$ 1,188,552	\$ 20,405					\$ 1,121,935	\$ 3,066	\$ 16,492	\$ 5,407	\$ 1,146,900	\$ 2,333,958	\$ -	
RSVA - Retail Transmission Network Charge	1584	\$ 336,815	\$ 4,876					\$ 222,715	\$ 2,121	\$ 3,274	\$ 1,073	\$ 229,183	\$ 568,527	\$ -	
RSVA - Retail Transmission Connection Charge	1586	\$ 638,134	\$ 14,839					\$ 293,224	\$ 2,174	\$ 4,310	\$ 1,413	\$ 301,121	\$ 948,371	\$ -	
RSVA - Power (excluding Global Adjustment)	1588	\$ 284,478	\$ 15,560					\$ 1,493,165	\$ 11,345	\$ 21,950	\$ 7,197	\$ -	\$ 1,235,592	\$ -	
RSVA - Power - Sub-account - Global Adjustment	1588	\$ 630,293	\$ 12,615					\$ 1,010,763	\$ 16,621	\$ 14,858	\$ 4,872	\$ -	\$ 384,476	\$ -	
Recovery of Regulatory Asset Balances	1590							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Disposition and Recovery/Refund of Regulatory Balances (2008) ⁷	1595							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Disposition and Recovery/Refund of Regulatory Balances (2009) ⁷	1595							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Disposition and Recovery/Refund of Regulatory Balances (2010) ⁷	1595							\$ 697,360	\$ 475,312		\$ -	\$ 222,048	\$ 222,048	\$ -	
Group 1 Sub-Total (including Account 1588 - Global Adjustment)		\$ 1,741,527	\$ 5,221					\$ 984,827	\$ 500,005	\$ 24,728	\$ 8,109	\$ 1,063,102	\$ 261,916	\$ -	
Group 1 Sub-Total (excluding Account 1588 - Global Adjustment)		\$ 1,111,234	\$ 7,394					\$ 25,936	\$ 483,384	\$ 9,870	\$ 3,237	\$ 470,555	\$ 646,392	\$ -	
RSVA - Power - Sub-account - Global Adjustment	1588	\$ 630,293	\$ 12,615					\$ 1,010,763	\$ 16,621	\$ 14,858	\$ 4,872	\$ 1,047,114	\$ 384,476	\$ -	
Group 2 Accounts															
Other Regulatory Assets - Sub-Account - OEB Cost Assessments	1508							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Other Regulatory Assets - Sub-Account - Pension Contributions	1508							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Other Regulatory Assets - Sub-Account - Deferred IFRS Transition Costs	1508							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Other Regulatory Assets - Sub-Account - Incremental Capital Charges	1508							\$ 14,475	\$ 322	\$ 213	\$ 70	\$ 15,080	\$ 14,797	\$ -	
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Variance - Ontario Clean Energy Benefit Act ⁸	1508							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Other Regulatory Assets - Sub-Account - Financial Assistance Payment and Recovery Carrying Charges	1508							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Other Regulatory Assets - Sub-Account - Other ⁴	1508							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Retail Cost Variance Account - Retail	1518							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Misc. Deferred Debits	1525							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Renewable Generation Connection Capital Deferral Account	1531							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Renewable Generation Connection OM&A Deferral Account	1532							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Renewable Generation Connection Funding Adder Deferral Account	1533							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Retail Cost Variance Account - STR	1548							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Board-Approved CDM Variance Account	1567							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Extra-Ordinary Event Costs	1572							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Deferred Rate Impact Amounts	1574							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
RSVA - One-time	1582							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Other Deferred Credits	2425							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Group 2 Sub-Total		\$ -	\$ -					\$ 14,475	\$ 322	\$ 213	\$ 70	\$ 15,080	\$ 14,797	\$ -	
Deferred Payments in Lieu of Taxes	1562	\$ 103,035	\$ 104,528	\$ 746,960	\$ 291,376			\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,036,843	\$ -	
PILs and Tax Variance for 2006 and Subsequent Years (excludes Sub-account and contra account below)	1592							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Input Tax Credits (ITCs)	1592					\$ 27,296	\$ 25,126	\$ 25,126	\$ -	\$ 369	\$ 121	\$ 25,616	\$ 22,956	\$ -	
Total of Group 1 and Group 2 Accounts (including 1562 and 1592)		\$ 1,844,562	\$ 99,307					\$ 974,176	\$ 500,327	\$ 24,572	\$ 8,058	\$ 1,073,638	\$ 1,306,918	\$ -	
Special Purpose Charge Assessment Variance Account ⁹	1521	\$ 105,614	\$ 628					\$ 7	\$ 513	\$ 506	\$ -	\$ -	\$ 104,480	\$ -	
LRAM Variance Account	1568							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
Total including Account 1521 and Account 1568		\$ 1,950,176	\$ 99,935					\$ 974,169	\$ 500,840	\$ 24,066	\$ 8,058	\$ 1,073,638	\$ 1,411,398	\$ -	
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Capital ¹¹	1555	\$ 5,017,480	\$ 196,547					\$ -	\$ -		\$ -	\$ -	\$ 5,214,027	\$ -	
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Recoveries ¹¹	1555	\$ 1,334,322	\$ 38,214					\$ -	\$ -		\$ -	\$ -	\$ 1,372,536	\$ -	
Smart Meter Capital and Recovery Offset Variance - Sub-Account - Stranded Meter	1555							\$ 2,000,543	\$ -			\$ 2,000,543	\$ 2,000,543	\$ -	
Smart Meter OM&A Variance ¹¹	1556	\$ 1,354,181	\$ 19,430					\$ -	\$ -		\$ -	\$ -	\$ 1,373,611	\$ -	
The following is not included in the total claim but are included on a memo basis:															
Deferred PILs Contra Account ⁵	1563	\$ 103,035	\$ 104,528	\$ 746,960	\$ 291,376			\$ -	\$ -		\$ -	\$ -	\$ 1,036,843	\$ -	
IFRS-CGAAP Transition PP&E Amounts ¹⁰	1575							\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	
PILs and Tax Variance for 2006 and Subsequent Years - Sub-Account HST/OVAT Contra Account	1592							\$ 22,956	\$ -			\$ 22,956	\$ 22,956	\$ -	
Disposition and Recovery of Regulatory Balances ⁸	1595	\$ 1,950,176	\$ 99,935					\$ 1,702,937	\$ 167,509	\$ -	\$ -	\$ 1,535,428	\$ 314,813	\$ -	

Appendix O

PDI LRAM Third Party Report



Peterborough Distribution Inc. LRAM/SSM



Third party review:

Peterborough Distribution Inc. LRAM and SSM claims



This document was prepared for Peterborough Distribution Inc. by IndEco Strategic Consulting Inc.

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IndEco report B1687

28 September 2011

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Executive summary

A third party review of the Conservation and Demand Management (CDM) programs run by Peterborough Distribution Inc. (PDI) was required as part of its application to the Ontario Energy Board (OEB) for collection of Lost Revenue Adjustment Mechanism (LRAM) and Shared Savings Mechanism (SSM) claims.

IndEco Strategic Consulting Inc. (IndEco) acted as third party reviewer by examining the participant rates, program costs, equipment specifications, and calculations that enter into the energy savings and Total Resource Costs (TRC) submitted by PDI to the OEB. The review was completed as detailed in the OEB *Guidelines for Electricity Distributor Conservation and Demand Management*.

The third party review included PDI's CDM activities in 2005, 2006, 2007, 2008 and 2009 and 2010 supported through Third Tranche of Market Adjustment Revenue Requirement (MARR) funding, and Ontario Power Authority (OPA) funding.

Net benefits, calculated using the TRC test, used OEB recommended inputs. For prescriptive programs, inputs were taken from the OEB *Total Resource Cost Guide*, or program evaluations provided by the OPA. Net TRC benefits totalled over \$1.1 million dollars.

Lost revenues are calculated using estimated energy savings or monthly peak demand savings using the best available and most current input assumptions. Energy savings for prescriptive programs originally reported in Peterborough Distribution Inc.'s annual filings have been updated to reflect new assumptions available since then. In the span of the LRAM claim, these savings totalled over 38 GWh in the Residential rate class and 11 GWh in the GS < 50 kW rate class. Savings in the GS 50 to 4,999 kW rate class totalled approximately 33 MW-months.

IndEco concludes that PDI's electricity rates should be adjusted to reflect LRAM and SSM claims of \$686,841 and \$56,463 respectively.

Introduction

Lost Revenue Adjustment Mechanism and Shared Savings Mechanism claims can benefit a local distribution company (LDC) by removing the disincentive for energy conservation, and by providing it with a portion of net economic benefits from conservation and demand management activities, respectively.

What is the lost revenue adjustment mechanism (LRAM)

LRAM is designed to ensure that the LDC does not have a disincentive to promote energy efficiency and energy conservation by compensating the LDC for revenues lost as a result of its conservation initiatives. Calculation of lost revenues requires information on what the electricity use would have been in the absence of the LDC initiatives, and what it was with the LDC initiative. Some of the inputs to the calculation include: hours the equipment is used, wattage rating of the old and new equipment, and lifetime of the equipment if it is less than the period over which the LRAM is being claimed. Also required are the number of participants, or pieces of equipment installed, and an estimate of the free-rider rate, which is the fraction of the savings that would have occurred anyway, in the absence of the program. These savings are estimated by rate class, and revenue losses are determined by multiplying those losses by the cost of distribution per unit for each rate class. Carrying charges are calculated using deferral and variance account interest rates prescribed by the OEB.¹

What is the shared savings mechanism (SSM)?

The SSM rewards the LDC for its CDM initiatives by sharing a percentage of the net economic benefits that result from the initiatives over their lifetime. For CDM activities by Ontario electricity distributors, that percentage has been set at five percent by the Ontario Energy Board (OEB). Key inputs to the calculation of SSM include all of the LRAM inputs, and in addition, the total lifetime of each technology installed, equipment costs, program costs, projected electricity costs (and water and natural gas if relevant) over that lifetime.

Sources of information

Although these input data requirements are sometimes measured, they sometimes use values from published sources, or assumptions provided by the Ontario Energy Board, or other reputable agencies. Collectively all these data are sometimes referred to as “TRC inputs” after the Total Resource Cost test that is used to calculate total economic costs and

¹ For prescribed interest rates, see <http://www.oeb.gov.on.ca/OEB/Industry/Rules+and+Requirements/Rules+Codes+Guidelines+and+Forms/Prescribed+Interest+Rates>

benefits to society. For some types of programs, such as large-scale distribution of compact fluorescent bulbs, it would be impractical to measure the hours each bulb is used, for example, and therefore these published sources provide an average value that is typical for this equipment type.

In some cases, estimated values for a particular component of the calculation are available from multiple sources. In these cases, information is taken from the sources highest in the information hierarchy. The information hierarchy (from greatest to least confidence) for LRAM calculations is:

- 1 Information or results from an OPA conducted or sponsored evaluation of the specific program (e.g. OPA 2010)
- 2 Information or results from a third-party evaluation of the specific program
- 3 Information or results from a site-specific assessment of the application of the technology, including on-site measurement or survey of the specific customer
- 4 Manufacturer specifications for energy use/demand of the specific technology installed
- 5 Information from the OPA's most current measures and assumptions lists (OPA 2011a, OPA 2011b)
- 6 Information from earlier OPA measures and assumptions lists
- 7 Information from the OEB's TRC guide list of measures and assumptions (OEB 2008b).

In principal, we might have consulted values from the literature and adopted these if they could be shown to be more current, specific or otherwise suitable than the values from sources 4 through 7. However, this was not necessary in this case.

In the span of the LRAM claim, these savings totalled over 38 GWh in the Residential rate class and 11 GWh in the GS < 50 kW rate class. Savings in the GS 50 to 4,999 kW rate class totalled approximately 33 MW-months.

Net TRC benefits totalled over \$1.1 million dollars.

Scope

This review examines the measures, energy savings, program costs and net TRC benefits for the programs in PDI's third tranche CDM portfolio. These programs ran in 2005, 2006, and 2007. It also includes programs run under contract to the Ontario Power Authority (OPA) in 2006, 2007, 2008, 2009 and 2010. Lost revenues associated with these programs are estimated through April 30, 2012.

In the TRC calculation, benefits and costs are reported in current dollars, which requires a discount rate for future dollars. Even though these activities are at the margin, OEB has dictated that the discount rate to be used is the weighted average cost of capital (WACC). The WACC provided by PDI is as follows:

- 2005: 7.99%
- 2006: 7.52%
- 2007: 7.52%

Because the WACC is only used to calculate present values for TRC calculations for the SSM, it is only required for 2005-2007 since these are the years for which an SSM amount is being claimed.

TRC inputs, and requested SSM and LRAM amounts

TRC inputs

Inputs used to calculate energy savings, TRC costs and TRC benefits for each prescriptive and custom measure were reviewed to ensure accuracy and suitability.

IndEco finds that appropriate measure specifications were used to calculate program energy savings and net TRC benefits. For the calculation of LRAM claims, prescriptive measures used values provided by the 2011 OPA Measures and Assumptions lists (OPA 2011a and OPA 2011b). For the calculation of SSM claims, the best available information at the beginning of the year the program was launched was used. This is consistent with the guidance in section 7.3 of the *OEB Guidelines for Electricity CDM* (OEB 2008a). Custom measures were substantiated through program-specific documentation and calculations.

Exceptions to the sources of prescriptive measure input assumptions used in the calculation of LRAM claims are as follows:

- The '2006-2009 Final OPA CDM results. Peterborough Distribution Inc.' and the '2010 Final CDM Results summary Peterborough Distribution Inc.' were used as sources of inputs for OPA-evaluated programs. These evaluated results have been adopted in accordance with Board recommendations that "The Board would consider an evaluation by the OPA or a third party designated by the OPA to be sufficient."² OPA advises that these estimates are prepared in a manner consistent with OPA current practice, and are the same values used to report progress against provincial conservation targets

A summary list of the assumption sources used for the calculation of the LRAM claim is provided in Table 1.

The measure inputs used to calculate SSM and LRAM claims can be found in Table 9 and Table 10 in Appendix A, respectively.

Requested SSM amounts

Equipment costs and benefits were calculated by entering the measure assumptions found in Tables 9 and 10 of Appendix A into IndEco's TRC calculator.

SSM amounts were calculated for all third tranche programs, including the 2006 and 2007 EKC programs, for which PDI played a central role, and funded its contribution from third tranche funds.

² OEB 2008a. Guidelines for Electricity Distributor Conservation and Demand Management. p.28

The EKC program design was changed in 2008 and PDI's participation was not integral to the program. Therefore no SSM is claimed on net benefits from the 2008, 2009 or 2010 programs.

SSM amounts and TRC benefits net of free riders for all applicable programs are shown in Table 2.

Requested LRAM amounts

LRAM calculations are to be completed with the best information available at the time of the third party review. As such, the energy savings indicated in PDI's annual reports for programs in PDI's CDM portfolio were recalculated with the assumptions found in Table 10 in Appendix A.

Energy savings for measures installed between 2005 and 31 December 2010 were calculated to April 30, 2012.

Tables 3 and 4 show the net and gross energy savings or demand reductions of each program by rate class. OPA program energy savings in Tables 3 and 4 were acquired directly from spreadsheets provided by the OPA.

Energy savings were converted to LRAM values by using PDI distribution rates. Distribution rates for all three of PDI's service areas – Asphodel-Norwood, Lakefield and Peterborough – were used. Distribution rates are in Table 5. The percentage breakdown of PDI's service territory by service area is provided in Table 6. This breakdown was used in the allocation of PDI energy savings to the appropriate service area and rate.

The requested LRAM is presented in Table 7.

Table 1 – Source of information used for the calculation of the LRAM/SSAM

Funding source	Rate class	Program	Source of LRAM inputs
OPA	Residential	2006 Cool Savings Rebate	OPA 2010
	Residential	2006 Secondary Refrigerator Retirement Pilot	OPA 2010
	Residential	2007 Affordable Housing Pilot	OPA 2010
	Residential	2007 Cool Savings Rebate	OPA 2010
	Residential	2007 Energy Efficiency Assistance for Houses Pilot	OPA 2010
	Residential	2007 Great Refrigerator Roundup	OPA 2010
	Residential	2007 peaksaver®	OPA 2010
	Residential	2007 Renewable Energy Standard Offer	OPA 2010
	Residential	2007 Social Housing Pilot	OPA 2010
	Residential	2007 Summer Savings	OPA 2010
	Residential	2008 Cool Savings Rebate	OPA 2010
	Residential	2008 Every Kilowatt Counts Power Savings Event	OPA 2010
	Residential	2008 Great Refrigerator Roundup	OPA 2010
	Residential	2008 peaksaver®	OPA 2010
	Residential	2008 Renewable Energy Standard Offer	OPA 2010
	Residential	2008 Summer Sweepstakes	OPA 2010
	Residential	2009 Cool Savings Rebate	OPA 2010
	Residential	2009 Every Kilowatt Counts Power Savings Event	OPA 2010
	Residential	2009 Great Refrigerator Roundup	OPA 2010
	Residential	2010 Cool Savings Rebate	OPA 2011c
	Residential	2010 Every Kilowatt Counts Power Savings Event	OPA 2011c
	Residential	2010 Great Refrigerator Roundup	OPA 2011c
	Residential, GS 50 - 4,999 kW	2009 peaksaver®	OPA 2010
	Residential, GS 50 - 4,999 kW	2010 peaksaver®	OPA 2011c
	General Service < 50 kW	2008 High Performance New Construction	OPA 2010
	General Service < 50 kW	2008 Power Savings Blitz	OPA 2010
	General Service < 50 kW	2009 High Performance New Construction	OPA 2010
	General Service < 50 kW	2009 Power Savings Blitz	OPA 2010
	General Service < 50 kW	2010 High Performance New Construction	OPA 2011c
	General Service < 50 kW	2010 Multifamily Energy Efficiency Rebates	OPA 2011c
	General Service < 50 kW	2010 Power Savings Blitz	OPA 2011c
	GS < 50 kW, GS 50 - 4,999 kW	2008 Electricity Retrofit Incentive	OPA 2010
	GS < 50 kW, GS	2009 Electricity Retrofit Incentive	OPA 2010

Funding source	Rate class	Program	Source of LRAM inputs
Third Tranche	50 - 4,999 kW		
	GS < 50 kW, GS 50 - 4,999 kW	2010 Electricity Retrofit Incentive	OPA 2011c
	Residential	2005 Energy Star Appliances	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential	2005 Radio signal to control appliances	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential	2005 Storage Heating	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential	2006 Energy Star Appliances	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential	2006 Every Kilowatt Counts	OPA 2010
	Residential	2006 Lighting for social housing	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential	2006 Radio signal to control appliances	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential	2006 Storage Heating	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential	2007 Energy Star Appliances	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential	2007 Every Kilowatt Counts	OPA 2010
	Residential	2007 Lighting for social housing	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential	2007 Load monitor	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential	2007 Radio signal to control appliances	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential	2007 Storage Heating	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential, GS < 50 kW	2005 Load monitor	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential, GS < 50 kW	2006 Load monitor	OPA 2011a (LRAM) OEB 2008b (SSM)
	Residential, GS < 50 kW, GS 50 - 4,999 kW	2005 Public education	PDI 2006
	Residential, GS < 50 kW, GS 50 - 4,999 kW	2006 Public education	PDI 2007
	Residential, GS < 50 kW, GS 50 - 4,999 kW	2007 Public education	PDI 2008
	General Service < 50 kW	2005 Cool Shops	OPA 2011a (LRAM) OEB 2008b (SSM)

1. The sources of SSM inputs were the best available at the onset of the program.

Table 2 – Summary of Net TRC benefits and SSM entitlement

Program	Year	Residential	General Service < 50 kW	General Service 50 - 4,999 kW	Net TRC	SSM amount
Cool Shops	2005		\$54,269		\$54,269	\$2,713
Energy Star Appliances	2005	-\$20,150			-\$20,150	-\$1,008
	2006	-\$24,111			-\$24,111	-\$1,206
	2007	-\$17,978			-\$17,978	-\$899
Every Kilowatt Counts	2006	\$764,651			\$764,651	\$38,233
	2007	\$350,457			\$350,457	\$17,523
Lighting for social housing	2006	-\$75,340			-\$75,340	-\$3,767
	2007	\$546,632			\$546,632	\$27,332
Load monitor	2005	-\$10,548	-\$107		-\$10,655	-\$533
	2006	\$5,544	\$56		\$5,600	\$280
	2007	\$718			\$718	\$36
Public education	2005	-\$29,814	-\$6,164	-\$4,646	-\$40,624	-\$2,031
	2006	-\$29,257	-\$6,049	-\$4,559	-\$39,865	-\$1,993
	2007	-\$3,743	-\$774	-\$583	-\$5,100	-\$255
Radio signal to control appliances	2005	-\$10,107			-\$10,107	-\$505
	2006	\$3,451			\$3,451	\$173
	2007	\$7,197			\$7,197	\$360
Storage Heating	2005	-\$285,921			-\$285,921	-\$14,296
	2006	-\$59,533			-\$59,533	-\$2,977
	2007	-\$14,342			-\$14,342	-\$717
Total		\$1,097,806	\$41,231	-\$9,788	\$1,129,250	\$56,463

Table 3 – Cumulative net program energy savings and peak demand savings by rate class through April 30, 2012

Funding source	Program	Year	Residential (kWh)	General Service < 50 kW (kWh)	General Service 50 - 4,999 kW (kW-mo)
OPA	Affordable Housing Pilot	2007	1,222,326		
	Cool Savings Rebate	2006	622,352		
		2007	797,495		
		2008	704,520		
		2009	670,636		
		2010	397,150		
	Electricity Retrofit Incentive	2008		343,121	5,651
		2009		964,275	18,539
		2010		387,948	9,583
	Energy Efficiency Assistance for Houses Pilot	2007	1,009,291		
	Every Kilowatt Counts Power Savings Event	2008	3,532,746		
		2009	1,132,944		
		2010	301,242		
	Great Refrigerator Roundup	2007	248,856		
		2008	834,267		
		2009	220,060		
		2010	384,247		
	High Performance New Construction	2008		7,915	
		2009		185,561	
		2010		435,649	
	Multifamily Energy Efficiency Rebates peaksaver®	2010		1,272,750	
		2007			
		2008	32,954		
		2009	7,108		40
		2010	1,153		14
	Power Savings Blitz	2008		430,936	
		2009		3,633,338	
		2010		1,714,786	
	Renewable Energy Standard Offer	2007	16,740		
		2008	60,015		
	Secondary Refrigerator Retirement Pilot	2006	242,025		
	Social Housing Pilot	2007	435,473		
	Summer Savings	2007	783,883		
	Summer Sweepstakes	2008	1,245,248		
	OPA subtotal		14,902,733	9,376,279	33,827
Third Tranche	Cool Shops	2005		2,615,917	
	Energy Star Appliances	2005	266,781		
		2006	310,938		

Funding source	Program	Year	Residential (kWh)	General Service < 50 kW (kWh)	General Service 50 - 4,999 kW (kW-mo)
		2007	183,413		
	Every Kilowatt Counts	2006	11,084,621		
		2007	4,736,216		
	Lighting for social housing	2006			
		2007	3,717,381		
	Load monitor	2005	38,055	384	
		2006	44,327	448	
		2007	12,134		
	Public education	2005			
		2006			
		2007			
	Radio signal to control appliances	2005			
		2006			
		2007			
	Storage Heating	2005	1,293,528		
		2006	2,116,116		
		2007			
Third Tranche subtotal			23,803,510	2,616,749	0
Total			38,706,243	11,993,028	33,827

1. Rates for general service rate class of customers rated at greater than 50 kW are on a monthly demand basis (kW), not an energy one (kWh). Lost revenue results when the customer's monthly peak demand is lower than it otherwise would be as a result of the CDM initiatives. These are measured in kW-month, which is the reduction within one month of the peak kilowatt demand. Excluded are peak demand reductions associated with demand response programs, which are not anticipated to impact on revenues.

Table 4 – Cumulative gross program energy savings and peak demand savings by rate class through April 30, 2012

Funding source	Program	Year	Residential (kWh)	General Service < 50 kW (kWh)	General Service 50 - 4,999 kW (kW-mo)
OPA	Affordable Housing Pilot	2007	1,222,326		
	Cool Savings Rebate	2006	788,407		
		2007	1,558,416		
		2008	1,226,449		
		2009	1,569,861		
		2010	942,636		
	Electricity Retrofit Incentive	2008		656,062	10,806
		2009		1,320,925	25,396
		2010		764,612	18,888
	Energy Efficiency Assistance for Houses Pilot	2007	1,009,291		
	Every Kilowatt Counts Power Savings Event	2008	8,753,795		
		2009	2,968,677		
		2010	651,377		
	Great Refrigerator Roundup	2007	620,278		
		2008	1,533,519		
		2009	413,512		
		2010	724,196		
	High Performance New Construction	2008		11,308	
		2009		265,087	
		2010		622,355	
	Multifamily Energy Efficiency Rebates peaksaver®	2010		1,727,811	
		2007			
		2008	36,615		
		2009	7,898		44
		2010	1,268		15
	Power Savings Blitz	2008		463,372	
		2009		3,824,566	
		2010		1,718,768	
	Renewable Energy Standard Offer	2007	16,740		
		2008	60,015		
	Secondary Refrigerator Retirement Pilot	2006	268,917		
	Social Housing Pilot	2007	435,473		
	Summer Savings	2007	6,532,361		
	Summer Sweepstakes	2008	1,604,991		
OPA subtotal			32,947,020	11,374,867	55,148
Third Tranche	Cool Shops	2005		2,753,597	
	Energy Star Appliances	2005	381,115		
		2006	444,198		

Funding source	Program	Year	Residential (kWh)	General Service < 50 kW (kWh)	General Service 50 - 4,999 kW (kW-mo)
		2007	262,019		
	Every Kilowatt Counts	2006	12,316,246		
		2007	6,432,834		
	Lighting for social housing	2006			
		2007	5,310,544		
	Load monitor	2005	38,055	384	
		2006	44,327	448	
		2007	12,134		
	Public education	2005			
		2006			
		2007			
	Radio signal to control appliances	2005			
		2006			
		2007			
	Storage Heating	2005	1,293,528		
		2006	2,116,116		
		2007			
Third Tranche subtotal			28,651,115	2,754,429	0
Total			61,598,135	14,129,296	55,148

Table 5 – Distribution rates for each service area within PDI's service territory

Asphodel-Norwood	2005	2006	2007	2008	2009	2010	2011
Residential	0.0092	0.0137	0.0138	0.0139	0.0125	0.0115	0.0115
General Service < 50 kW	0.0076	0.0105	0.0106	0.0107	0.0094	0.0089	0.0089
General Service 50 - 4,999 kW	1.6905	3.8608	3.8955	3.915	2.6934	2.4099	2.4142
Lakefield	2005	2006	2007	2008	2009	2010	2011
Residential	0.0087	0.0081	0.0082	0.0082	0.0125	0.0115	0.0115
General Service < 50 kW	0.007	0.0067	0.0068	0.0068	0.0094	0.0089	0.0089
General Service 50 - 4,999 kW	1.2518	1.4063	1.419	1.4204	2.6934	2.4099	2.4142
Peterborough	2005	2006	2007	2008	2009	2010	2011
Residential	0.0137	0.0121	0.0122	0.0126	0.0125	0.0115	0.0115
General Service < 50 kW	0.0092	0.0083	0.0084	0.0086	0.0094	0.0089	0.0089
General Service 50 - 4,999 kW	2.4187	2.2787	2.2992	2.3927	2.6934	2.4099	2.4142

Table 6 – Rate class divisions by service area within PDI

Rate class	Asphodel-Norwood	Lakefield	Peterborough
Residential	2%	4%	94%
General Service < 50 kW	2%	5%	92%
General Service 50 - 4,999 kW	2%	5%	94%

1. Divisions are for 2005-2008, after which rates for all three service areas were harmonized.

Table 7 – Summary of requested LRAM amounts in 2012\$¹

Funding	Program	Year	Residential	General Service < 50 kW	General Service 50 - 4,999 kW	Total
OPA	Affordable Housing Pilot	2007	\$15,333	\$0	\$0	\$15,333
	Cool Savings Rebate	2006	\$7,935	\$0	\$0	\$7,935
		2007	\$10,006	\$0	\$0	\$10,006
		2008	\$8,698	\$0	\$0	\$8,698
		2009	\$8,100	\$0	\$0	\$8,100
		2010	\$4,650	\$0	\$0	\$4,650
	Electricity Retrofit Incentive	2008	\$0	\$3,155	\$14,433	\$17,589
		2009	\$0	\$8,929	\$47,387	\$56,316
		2010	\$0	\$3,515	\$23,535	\$27,050
	Energy Efficiency Assistance for Houses Pilot	2007	\$12,661	\$0	\$0	\$12,661
	Every Kilowatt Counts Power Savings Event	2008	\$43,645	\$0	\$0	\$43,645
		2009	\$13,695	\$0	\$0	\$13,695
		2010	\$3,527	\$0	\$0	\$3,527
	Great Refrigerator Roundup	2007	\$3,122	\$0	\$0	\$3,122
		2008	\$10,300	\$0	\$0	\$10,300
		2009	\$2,658	\$0	\$0	\$2,658
		2010	\$4,499	\$0	\$0	\$4,499
	High Performance New Construction	2008	\$0	\$73	\$0	\$73
		2009	\$0	\$1,718	\$0	\$1,718
		2010	\$0	\$3,947	\$0	\$3,947
	Multifamily Energy Efficiency Rebates	2010	\$0	\$11,532	\$0	\$11,532
	peaksaver®	2008	\$407	\$0	\$0	\$407
		2009	\$86	\$0	\$101	\$187
		2007	\$0	\$0	\$0	
		2010	\$14	\$0	\$34	\$47
	Power Savings Blitz	2008	\$0	\$3,972	\$0	\$3,972
		2009	\$0	\$33,644	\$0	\$33,644
		2010	\$0	\$15,537	\$0	\$15,537
	Renewable Energy Standard Offer	2008	\$741	\$0	\$0	\$741
		2007	\$210	\$0	\$0	\$210
	Secondary Refrigerator Retirement Pilot	2006	\$3,098	\$0	\$0	\$3,098
	Social Housing Pilot	2007	\$5,463	\$0	\$0	\$5,463
	Summer Savings	2007	\$10,322	\$0	\$0	\$10,322
	Summer Sweepstakes	2008	\$15,374	\$0	\$0	\$15,374
	OPA subtotal		\$184,543	\$86,023	\$85,490	\$356,056
Third Tranche	Cool Shops	2005	\$0	\$24,697	\$0	\$24,697
	Energy Star	2005	\$3,443	\$0	\$0	\$3,443

Appliances	2006	\$3,906	\$0	\$0	\$3,906
	2007	\$2,267	\$0	\$0	\$2,267
Every Kilowatt Counts	2006	\$146,609	\$0	\$0	\$146,609
	2007	\$59,430	\$0	\$0	\$59,430
Lighting for social housing	2006	\$0	\$0	\$0	
	2007	\$45,953	\$0	\$0	\$45,953
Load monitor	2005	\$491	\$4	\$0	\$495
	2006	\$557	\$4	\$0	\$561
	2007	\$150	\$0	\$0	\$150
Storage Heating	2005	\$16,692	\$0	\$0	\$16,692
	2006	\$26,582	\$0	\$0	\$26,582
	2007	\$0	\$0	\$0	
Third Tranche subtotal		\$306,080	\$24,705	\$0	\$330,785
Total		\$490,623	\$110,728	\$85,490	\$686,841

1. LRAM amounts are for energy (or demand) reductions for the years between the year the program began through April 30, 2012.

Findings

The third-tranche programs in PDI's CDM portfolio were completed as of December 31, 2007. Although the OEB guidance for this report asks for comments on future program evaluation and improvements to program performance, this expectation is not relevant for these programs that have ended and are not expected to be reinitiated.

IndEco has reviewed the input values and custom project justifications used to calculate the energy savings and net TRC benefits resulting from PDI's portfolio as well as those associated with 2006, 2007, 2008, 2009, and 2010 OPA-funded programs.

IndEco has concluded that sufficient detail and documentation exists to recommend increasing Peterborough Distribution Inc.'s distribution rates in order to collect \$686,841 in LRAM and \$56,463 in SSM amounts, allocated by rate class as shown in Table 8.

Table 8 – LRAM and SSM amounts by rate class in 2012\$

Rate class	LRAM	SSM
Residential	\$490,623	\$54,890
General Service < 50 kW	\$110,728	\$2,062
General Service 50 - 4,999 kW	\$85,490	(\$489)
Total	\$686,841	\$56,463

References

- Peterborough Distribution Inc. 2006. Conservation and Demand Management 2005 Annual Report. RP-2004-0203
- Peterborough Distribution Inc. 2007. Conservation and Demand Management 2006 Annual Report. RP-2004-0203
- Peterborough Distribution Inc. 2008. Conservation and Demand Management 2007 Annual Report. RP-2004-0203
- Ontario Energy Board. (OEB) 2007. Report of the Board on the Regulatory Framework for Conservation and Demand Management by Ontario Electricity Distributors in 2007 and Beyond. (March 2)
- Ontario Energy Board. (OEB) 2008a. Guidelines for Electricity Distributor Conservation and Demand Management. (March 28)
- Ontario Energy Board (OEB) 2008b. Inputs and Assumptions for Calculating Total Resource Cost. (March 28)
- Ontario Power Authority. (OPA) 2010. 2006-2009 Final OPA CDM results. Peterborough Distribution Inc. E-mail from J. Yue (OPA) dated 1 December
- Ontario Power Authority. (OPA) 2011a. 2011 prescriptive measures and assumptions. Toronto: OPA Release March 7, 2011. Source: <http://powerauthority.on.ca/evaluation-measurement-and-verification/measures-assumptions-lists>
- Ontario Power Authority. (OPA) 2011b. 2011 quasi-prescriptive measures and assumptions. Toronto: OPA Release March 7, 2011 From: <http://powerauthority.on.ca/evaluation-measurement-and-verification/measures-assumptions-lists>
- Ontario Power Authority. (OPA) 2011c. 2010 Final CDM Results summary Peterborough Distribution Inc. Release September 19 2011

Appendix A. Inputs used for TRC and energy savings calculations

Table 9 - SSM inputs and contribution to the total SSM for all measures.

Program	Energy Efficient Measure	Units	Measure life	SSM Free rider rate	Annual energy savings (kWh/a)	Contribution to SSM	Assumption Source
2005 Energy Star Appliances	Energy Star Refrigerators	102	19	10%	74	(\$4)	OEB 2008b
2005 Energy Star Appliances	Energy Star Freezer	102	19	10%	36.8	(\$760)	OEB 2008b
2005 Energy Star Appliances	Energy Star Dishwasher	102	13	10%	100	(\$174)	OEB 2008b
2005 Energy Star Appliances	Energy Star Room Air Conditioner	102	12	10%	88	\$272	OEB 2008b
2005 Energy Star Appliances	Energy Star Top Loading Clothes Washers	102	14	10%	77.9	(\$219)	OEB 2008b
2005 Storage Heating	Electric thermal storage heating	99	18	0%	1810	\$7,056	OEB 2008b
2005 Radio signal to control appliances	Utility controlled relay	8	12	0%	0	\$146	OEB 2008b
2005 Load monitor	Appliance controls	71	15	0%	75.34	\$44	OEB 2008b
2005 Cool Shops	4' 32W – 4 Lamps	1,386	5	10%	288	\$2,117	OEB 2008b
2005 Cool Shops	4' 32W – 4 Lamps	939	5	10%	160	\$822	OEB 2008b
2005 Cool Shops	11W Screw-In CFL	267	2	10%	110.28	\$122	OEB 2008b
2005 Cool Shops	15W Screw-In CFL	254	2	10%	172.2	\$216	OEB 2008b
2005 Cool Shops	13W CFL fixture w/EM ballast	340	3	10%	166.4	\$329	OEB 2008b
2005 Cool Shops	18W CFL fixture w/EM ballast	378	3	10%	217.2	\$495	OEB 2008b
2005 Cool Shops	26W CFL fixture w/EM ballast	69	3	10%	280.4	\$118	OEB 2008b
2006 Energy Star Appliances	Energy Star Refrigerators	138	19	10%	74	\$9	OEB 2008b
2006 Energy Star Appliances	Energy Star Freezer	138	19	10%	37	(\$1,015)	OEB 2008b
2006 Energy Star Appliances	Energy Star Dishwasher	138	13	10%	100	(\$227)	OEB 2008b
2006 Energy Star Appliances	Energy Star Room Air Conditioner	138	12	10%	88	\$381	OEB 2008b

Program	Energy Efficient Measure	Units	Measure life	SSM Free rider rate	Annual energy savings (kWh/a)	Contribution to SSM	Assumption Source
2006 Energy Star Appliances	Energy Star Top Loading Clothes Washers	138	14	10%	78	(\$288)	OEB 2008b
2006 Storage Heating	Electric thermal storage heating	188	18	0%	1,810	\$13,831	OEB 2008b
2006 Radio signal to control appliances	Utility controlled relay	303	12	0%	0	\$5,675	OEB 2008b
2006 Load monitor	Appliance controls	96	15	0%	75	\$316	OEB 2008b
2007 Energy Star Appliances	Energy Star Refrigerators	97	19	10%	74	\$17	OEB 2008b
2007 Energy Star Appliances	Energy Star Freezer	97	19	10%	37	(\$713)	OEB 2008b
2007 Energy Star Appliances	Energy Star Dishwasher	97	13	10%	100	(\$153)	OEB 2008b
2007 Energy Star Appliances	Energy Star Room Air Conditioner	97	12	10%	88	\$296	OEB 2008b
2007 Energy Star Appliances	Energy Star Top Loading Clothes Washers	97	14	10%	78	(\$196)	OEB 2008b
2007 Radio signal to control appliances	Utility controlled relay	51	12	0%	0	\$1,070	OEB 2008b
2007 Load monitor	Appliance controls	31	15	0%	75	\$22	OEB 2008b
2007 Lighting for social housing	CFL Screw-In 15W	18,027	4	10%	104	\$21,152	OEB 2008b
2007 Lighting for social housing	CFL Screw-In 23W	4,242	4	10%	174	\$8,295	OEB 2008b
2006 Every Kilowatt Counts	Energy Star® Compact Fluorescent Light Bulb - Spring Campaign	9,648	4	10%	104	\$10,241	OPA 2010
2006 Every Kilowatt Counts	Electric Timers - Spring Campaign	270	20	10%	183	\$1,747	OPA 2010
2006 Every Kilowatt Counts	Programmable Thermostats - Spring Campaign	118	15	10%	216	\$620	OPA 2010
2006 Every Kilowatt Counts	Energy Star® Ceiling Fans - Spring Campaign	90	20	10%	141	\$419	OPA 2010
2006 Every Kilowatt Counts	Energy Star® Compact Fluorescent Light Bulb - Autumn Campaign	14,305	4	10%	104	\$15,184	OPA 2010
2006 Every Kilowatt Counts	Seasonal Light Emitting Diode Light String - Autumn Campaign	3,443	30	10%	31	\$3,178	OPA 2010
2006 Every Kilowatt Counts	Programmable Thermostats - Autumn Campaign	227	18	10%	522	\$5,203	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	SSM Free rider rate	Annual energy savings (kWh/a)	Contribution to SSM	Assumption Source
2006 Every Kilowatt Counts	Dimmers - Autumn Campaign	179	10	10%	139	\$473	OPA 2010
2006 Every Kilowatt Counts	Indoor Motion Sensors - Autumn Campaign	64	20	10%	209	\$458	OPA 2010
2006 Every Kilowatt Counts	Programmable Baseboard Thermostats - Autumn Campaign	14	18	10%	1,466	\$710	OPA 2010
2007 Every Kilowatt Counts	15 W CFL	16,562	8	22%	43	\$11,599	OPA 2010
2007 Every Kilowatt Counts	20+ W CFL	2,696	8	22%	62	\$2,941	OPA 2010
2007 Every Kilowatt Counts	Energy Star® Light Fixture	64	16	45%	123	\$133	OPA 2010
2007 Every Kilowatt Counts	T8 Fluorescent Tube	126	18	23%	37	\$59	OPA 2010
2007 Every Kilowatt Counts	Seasonal LED Light String	4,388	5	51%	14	(\$452)	OPA 2010
2007 Every Kilowatt Counts	Project Porchlight CFL	3,485	8	24%	43	\$2,378	OPA 2010
2007 Every Kilowatt Counts	Solar Light	2,126	5	87%	5	(\$46)	OPA 2010
2007 Every Kilowatt Counts	Energy Star® Ceiling Fan	134	10	45%	90	\$10	OPA 2010
2007 Every Kilowatt Counts	Furnace Filter	538	1	45%	38	(\$140)	OPA 2010
2007 Every Kilowatt Counts	Power Bar with Timer	59	10	23%	72	\$37	OPA 2010
2007 Every Kilowatt Counts	Lighting Control Device	681	10	45%	72	\$496	OPA 2010
2007 Every Kilowatt Counts	Outdoor Motion Sensor	213	10	45%	160	\$398	OPA 2010
2007 Every Kilowatt Counts	Dimmer Switch	135	10	45%	24	\$1	OPA 2010
2007 Every Kilowatt Counts	Programmable Thermostat	130	15	45%	75	\$109	OPA 2010
Total technology contribution to SSM						\$114,805	

The net TRC benefits are the total technology benefits less the total technology costs (net of free riders) less the total program costs. The total net technology benefits and costs are \$2,745,919 and \$449,824. The total program cost for all programs is \$1,166,845. Net TRC benefits are thus \$1,129,250. The SSM incentive is 5% of these net TRC benefits, or \$56,463.

Table 10 – LRAM inputs and contribution to the total LRAM for all measures.

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
2005 Energy Star Appliances	Energy Star Refrigerators	102	14	30%	113	\$750	OPA 2011a
2005 Energy Star Appliances	Energy Star Freezer	102	11	30%	46	\$305	OPA 2011a
2005 Energy Star Appliances	Energy Star Dishwasher	102	11	30%	37	\$246	OPA 2011a
2005 Energy Star Appliances	Energy Star Room Air Conditioner	102	9	30%	141	\$936	OPA 2011a
2005 Energy Star Appliances	Energy Star Top Loading Clothes Washers	102	14	30%	181	\$1,206	OPA 2011a
2005 Storage Heating	Electric thermal storage heating	99	18	0%	1,810	\$16,692	OEB 2008b
2005 Load monitor	Appliance controls	71	15	0%	75	\$495	OEB 2008b
2005 Cool Shops	4' 32W – 4 Lamps	1,386	6	5%	195	\$14,488	OPA 2011b
2005 Cool Shops	4' 32W – 4 Lamps	939	6	5%	120	\$6,053	OPA 2011b
2005 Cool Shops	11W Screw-In CFL	267	2	5%	94	\$521	OPA 2011b
2005 Cool Shops	15W Screw-In CFL	254	2	5%	146	\$769	OPA 2011b
2005 Cool Shops	13W CFL fixture w/EM ballast	340	2	5%	153	\$1,075	OPA 2011b
2005 Cool Shops	18W CFL fixture w/EM ballast	378	2	5%	185	\$1,449	OPA 2011b
2005 Cool Shops	26W CFL fixture w/EM ballast	69	2	5%	241	\$343	OPA 2011b
2006 Energy Star Appliances	Energy Star Refrigerators	138	14	30%	113	\$851	OPA 2011a
2006 Energy Star Appliances	Energy Star Freezer	138	11	30%	46	\$346	OPA 2011a
2006 Energy Star Appliances	Energy Star Dishwasher	138	11	30%	37	\$279	OPA 2011a
2006 Energy Star Appliances	Energy Star Room Air Conditioner	138	9	30%	141	\$1,062	OPA 2011a
2006 Energy Star Appliances	Energy Star Top Loading Clothes Washers	138	14	30%	181	\$1,368	OPA 2011a
2006 Storage Heating	Electric thermal storage heating	188	18	0%	1,810	\$26,582	OEB 2008b
2006 Load monitor	Appliance controls	96	15	0%	75	\$561	OEB 2008b

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
2007 Energy Star Appliances	Energy Star Refrigerators	97	14	30%	113	\$494	OPA 2011a
2007 Energy Star Appliances	Energy Star Freezer	97	11	30%	46	\$201	OPA 2011a
2007 Energy Star Appliances	Energy Star Dishwasher	97	11	30%	37	\$162	OPA 2011a
2007 Energy Star Appliances	Energy Star Room Air Conditioner	97	9	30%	141	\$616	OPA 2011a
2007 Energy Star Appliances	Energy Star Top Loading Clothes Washers	97	14	30%	181	\$794	OPA 2011a
2007 Load monitor	Appliance controls	31	15	0%	75	\$150	OEB 2008b
2007 Lighting for social housing	CFL Screw-In 15W	18,027	8	30%	44	\$36,145	OPA 2011a
2007 Lighting for social housing	CFL Screw-In 23W	4,242	8	30%	51	\$9,808	OPA 2011a
2006 Secondary Refrigerator Retirement Pilot	Refrigerator Retirement	36	6	10%	1,200	\$3,001	OPA 2010
2006 Secondary Refrigerator Retirement Pilot	Freezer Retirement	2	6	10%	900	\$97	OPA 2010
2006 Cool Savings Rebate	Energy Star® Central Air Conditioner - Cool Savings	104	14	10%	390	\$2,902	OPA 2010
2006 Cool Savings Rebate	Programmable Thermostat - Cool Savings	79	18	10%	177	\$1,001	OPA 2010
2006 Cool Savings Rebate	Central Air Conditioner Tune-ups - Cool Savings	71	8	10%	410	\$2,081	OPA 2010
2006 Cool Savings Rebate	Energy Star® Central Air Conditioner - Hot Savings	21	18	43%	155	\$149	OPA 2010
2006 Cool Savings Rebate	Efficient Furnace with ECM - Hot Savings	44	15	41%	837	\$1,753	OPA 2010
2006 Cool Savings Rebate	Programmable Thermostat - Hot Savings	41	15	73%	54	\$48	OPA 2010
2006 Every Kilowatt Counts	Energy Star® Compact Fluorescent Light Bulb - Spring Campaign	9,648	4	10%	104	\$48,360	OPA 2010
2006 Every Kilowatt Counts	Electric Timers - Spring Campaign	270	20	10%	183	\$3,550	OPA 2010
2006 Every Kilowatt Counts	Programmable Thermostats - Spring Campaign	118	15	10%	216	\$1,823	OPA 2010
2006 Every Kilowatt Counts	Energy Star® Ceiling Fans - Spring Campaign	90	20	10%	141	\$905	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
2006 Every Kilowatt Counts	Energy Star® Compact Fluorescent Light Bulb - Autumn Campaign	14,305	4	10%	104	\$71,703	OPA 2010
2006 Every Kilowatt Counts	Seasonal Light Emitting Diode Light String - Autumn Campaign	3,443	30	10%	31	\$7,594	OPA 2010
2006 Every Kilowatt Counts	Programmable Thermostats - Autumn Campaign	227	18	10%	522	\$8,499	OPA 2010
2006 Every Kilowatt Counts	Dimmers - Autumn Campaign	179	10	10%	139	\$1,789	OPA 2010
2006 Every Kilowatt Counts	Indoor Motion Sensors - Autumn Campaign	64	20	10%	209	\$965	OPA 2010
2006 Every Kilowatt Counts	Programmable Baseboard Thermostats - Autumn Campaign	14	18	10%	1,466	\$1,422	OPA 2010
2007 Great Refrigerator Roundup	Bottom Freezer Fridge	1	9	27%	1,064	\$62	OPA 2010
2007 Great Refrigerator Roundup	Chest Freezer	20	8	54%	471	\$289	OPA 2010
2007 Great Refrigerator Roundup	Side by Side Fridge-Freezer	10	9	61%	900	\$233	OPA 2010
2007 Great Refrigerator Roundup	Single Door Fridge	28	9	61%	721	\$517	OPA 2010
2007 Great Refrigerator Roundup	Small Freezer (under 10 cubic feet)	1	8	70%	339	\$5	OPA 2010
2007 Great Refrigerator Roundup	Small Fridge (under 10 cubic feet)	2	9	70%	490	\$21	OPA 2010
2007 Great Refrigerator Roundup	Top Freezer Fridge	101	9	61%	732	\$1,901	OPA 2010
2007 Great Refrigerator Roundup	Upright Freezer	4	8	54%	743	\$88	OPA 2010
2007 Great Refrigerator Roundup	Window Air Conditioner	1	5	57%	240	\$6	OPA 2010
2007 Cool Savings Rebate	Energy Star® Central Air Conditioner - Hot Savings	20	18	43%	155	\$119	OPA 2010
2007 Cool Savings Rebate	Efficient Furnace with ECM - Hot Savings	43	15	41%	837	\$1,401	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
2007 Cool Savings Rebate	Programmable Thermostat - Hot Savings	40	15	73%	54	\$39	OPA 2010
2007 Cool Savings Rebate	Energy Star® Central Air Conditioner, Tier 2 - Cool Savings	159	18	43%	155	\$928	OPA 2010
2007 Cool Savings Rebate	Medium Efficiency Furnace with ECM - Cool Savings	211	15	41%	837	\$6,873	OPA 2010
2007 Cool Savings Rebate	Programmable Thermostat - Cool Savings	197	15	73%	54	\$191	OPA 2010
2007 Cool Savings Rebate	Central Air Conditioner Tune-ups - Cool Savings	196	5	84%	235	\$455	OPA 2010
2007 Every Kilowatt Counts	15 W CFL	16,562	8	22%	43	\$36,583	OPA 2010
2007 Every Kilowatt Counts	20+ W CFL	2,696	8	22%	62	\$8,601	OPA 2010
2007 Every Kilowatt Counts	Energy Star® Light Fixture	64	16	45%	123	\$286	OPA 2010
2007 Every Kilowatt Counts	T8 Fluorescent Tube	126	18	23%	37	\$238	OPA 2010
2007 Every Kilowatt Counts	Seasonal LED Light String	4,388	5	51%	14	\$1,855	OPA 2010
2007 Every Kilowatt Counts	Project Porchlight CFL	3,485	8	24%	43	\$7,501	OPA 2010
2007 Every Kilowatt Counts	Solar Light	2,126	5	87%	5	\$84	OPA 2010
2007 Every Kilowatt Counts	Energy Star® Ceiling Fan	134	10	45%	90	\$435	OPA 2010
2007 Every Kilowatt Counts	Furnace Filter	538	1	45%	38	\$149	OPA 2010
2007 Every Kilowatt Counts	Power Bar with Timer	59	10	23%	72	\$216	OPA 2010
2007 Every Kilowatt Counts	Lighting Control Device	681	10	45%	72	\$1,782	OPA 2010
2007 Every Kilowatt Counts	Outdoor Motion Sensor	213	10	45%	160	\$1,231	OPA 2010
2007 Every Kilowatt Counts	Dimmer Switch	135	10	45%	24	\$116	OPA 2010
2007 Every Kilowatt Counts	Programmable Thermostat	130	15	45%	75	\$353	OPA 2010
2007 Summer Savings	Households, Change in Behaviour Only -	299	1	88%	5,453	\$2,620	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
	Behaviour Related						
2007 Summer Savings	Households, Combination of Change in Behaviour and "Pulled Forward" Equipment - Behaviour Related	299	1	88%	2,919	\$1,403	OPA 2010
2007 Summer Savings	Households, Combination of Change in Behaviour and "Pulled Forward" Equipment - Equipment Related	299	2	88%	1,662	\$1,588	OPA 2010
2007 Summer Savings	Households, Combination of Change in Behaviour and "Pulled Forward" Equipment - Compact Fluorescent Light Bulb Related	299	8	88%	171	\$404	OPA 2010
2007 Summer Savings	Households, Change in Behaviour and Incremental Equipment (With Full Equipment Life) - Behaviour Related	299	1	88%	4,822	\$2,317	OPA 2010
2007 Summer Savings	Households, Change in Behaviour and Incremental Equipment (With Full Equipment Life) - Equipment Related	299	14	88%	643	\$1,520	OPA 2010
2007 Summer Savings	Households, Change in Behaviour and Incremental Equipment (With Full Equipment Life) - Compact Fluorescent Light Bulb Related	299	8	88%	199	\$469	OPA 2010
2007 Affordable Housing Pilot	Energy Star Refrigerator	46	14	0%	69	\$209	OPA 2010
2007 Affordable Housing Pilot	Other CFL Screw-in Light (please specify)	600	14	0%	383	\$15,124	OPA 2010
2007 Social Housing Pilot	Custom	1	10	0%	82,947	\$5,463	OPA 2010
2007 Energy Efficiency Assistance for Houses Pilot	Custom	1	19	0%	192,246	\$12,661	OPA 2010
2007 Renewable Energy Standard Offer	Solar PV	1	20	0%	3,189	\$210	OPA 2010
2008 Great Refrigerator Roundup	Bottom Freezer Fridge	3	9	45%	775	\$76	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
2008 Great Refrigerator Roundup	Chest Freezer	68	8	48%	740	\$1,371	OPA 2010
2008 Great Refrigerator Roundup	Side by Side Fridge-Freezer	32	9	45%	775	\$706	OPA 2010
2008 Great Refrigerator Roundup	Single Door Fridge	61	9	45%	775	\$1,370	OPA 2010
2008 Great Refrigerator Roundup	Small Freezer (under 10 cubic feet)	1	8	48%	740	\$16	OPA 2010
2008 Great Refrigerator Roundup	Small Fridge (under 10 cubic feet)	2	9	45%	775	\$41	OPA 2010
2008 Great Refrigerator Roundup	Top Freezer Fridge	287	9	45%	775	\$6,418	OPA 2010
2008 Great Refrigerator Roundup	Upright Freezer	13	8	48%	740	\$269	OPA 2010
2008 Great Refrigerator Roundup	Window Air Conditioner	9	5	64%	197	\$33	OPA 2010
2008 Cool Savings Rebate	2007 Energy Star® Central Air Conditioner, Tier 2	32	18	43%	155	\$149	OPA 2010
2008 Cool Savings Rebate	2007 Medium Efficiency Furnace with ECM	66	15	41%	837	\$1,722	OPA 2010
2008 Cool Savings Rebate	2007 Programmable Thermostat	52	15	73%	54	\$40	OPA 2010
2008 Cool Savings Rebate	2008 Energy Star® Central Air Conditioner, Tier 2	158	18	43%	125	\$592	OPA 2010
2008 Cool Savings Rebate	2008 Efficient Furnace with ECM	238	18	41%	819	\$6,039	OPA 2010
2008 Cool Savings Rebate	2008 Programmable Thermostat	202	18	73%	54	\$156	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Energy Star® Qualified Compact Fluorescent Light Bulbs	6,402	8	48%	53	\$9,296	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Energy Star® Qualified Dimmable CFLs	697	6	62%	98	\$1,348	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Energy Star® Qualified Decorative CFLs	10,815	4	61%	30	\$6,283	OPA 2010
2008 Every Kilowatt Counts	Energy Star® Qualified Compact Fluorescent	3,00	7	63%	88	\$5,172	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
Power Savings Event	Floods (Indoor & Outdoor)	3					
2008 Every Kilowatt Counts Power Savings Event	Energy Star® Qualified Light Fixtures	4,660	16	67%	133	\$10,892	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	T8 Fluorescent Fixtures	848	16	67%	37	\$544	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Lighting Control Devices	911	10	55%	102	\$2,218	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Power Bars with Timers	50	10	59%	53	\$57	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Heavy Duty Timers	105	10	67%	301	\$555	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Programmable Thermostats - Baseboard	294	15	53%	64	\$457	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Air Conditioner/Furnace Filters	277	1	65%	38	\$48	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Pipe Wrap	5,972	6	53%	38	\$5,576	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Keep Cool Pilot – Dehumidifier	2	12	65%	500	\$17	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Keep Cool Pilot – Room Air Conditioner	2	9	58%	141	\$6	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Rewards for Recycling – Dehumidifier	56	12	56%	500	\$646	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Rewards for Recycling – Room Air Conditioner	60	9	56%	141	\$196	OPA 2010
2008 Every Kilowatt Counts Power Savings Event	Rewards for Recycling – Halogen Lamp	48	16	52%	275	\$334	OPA 2010
2008 peaksaver®	Residential Air Conditioner - Thermostat	498	13	10%	17	\$407	OPA 2010
2008 Summer Sweepstakes	Registered qualified active households	164	5	22%	421	\$2,816	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
2008 Summer Sweepstakes	Registered unqualified active households	246	5	22%	421	\$4,225	OPA 2010
2008 Summer Sweepstakes	Registered qualified inactive households	16	5	22%	421	\$282	OPA 2010
2008 Summer Sweepstakes	Registered unqualified inactive households	62	5	22%	421	\$1,060	OPA 2010
2008 Summer Sweepstakes	Non-registered active households	8,004	5	22%	21	\$6,992	OPA 2010
2008 Electricity Retrofit Incentive	All projects	1	15	48%	1,234,941	\$17,589	OPA 2010
2008 Power Savings Blitz	T8 Fixture With Electronic Ballast	605	15	7%	151	\$3,323	OPA 2010
2008 Power Savings Blitz	Energy Star® rated LED Exit Sign	11	16	7%	237	\$95	OPA 2010
2008 Power Savings Blitz	Energy Star® rated CLF	167	2	7%	191	\$554	OPA 2010
2008 Renewable Energy Standard Offer	Solar PV	1	20	0%	14,121	\$741	OPA 2010
2008 High Performance New Construction	Custom	1	14	30%	2,661	\$73	OPA 2010
2009 Great Refrigerator Roundup	Bottom Freezer Fridge - Not Replaced - Running Part Time (38% of the time)	0	5	46%	674	\$1	OPA 2010
2009 Great Refrigerator Roundup	Bottom Freezer Fridge - Standard Efficiency Unit Replacement - Running Part Time (38% of the time)	0	5	46%	454	\$0	OPA 2010
2009 Great Refrigerator Roundup	Bottom Freezer Fridge - Energy Star Unit Replacement - Running Part Time (38% of the time)	0	5	46%	498	\$1	OPA 2010
2009 Great Refrigerator Roundup	Bottom Freezer Fridge - Not Replaced - Running All Time (100% of time)	1	5	46%	1,769	\$19	OPA 2010
2009 Great Refrigerator Roundup	Bottom Freezer Fridge - Standard Efficiency Unit Replacement - Running All Time (100% of time)	0	5	46%	1,193	\$5	OPA 2010
2009 Great Refrigerator Roundup	Bottom Freezer Fridge - Energy Star Unit Replacement - Running All Time (100% of time)	1	5	46%	1,308	\$28	OPA 2010
2009 Great Refrigerator Roundup	Chest Freezer - Not Replaced - Running Part Time (26% of the time)	1	4	48%	282	\$6	OPA 2010
2009 Great Refrigerator	Chest Freezer - Standard Efficiency Unit	0	4	48%	247	\$2	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
Roundup	Replacement - Running Part Time (26% of the time)						
2009 Great Refrigerator Roundup	Chest Freezer - Energy Star Unit Replacement - Running Part Time (26% of the time)	1	4	48%	261	\$7	OPA 2010
2009 Great Refrigerator Roundup	Chest Freezer - Not Replaced - Running All Time (100% of time)	11	4	48%	1,096	\$245	OPA 2010
2009 Great Refrigerator Roundup	Chest Freezer - Standard Efficiency Unit Replacement - Running All Time (100% of time)	3	4	48%	959	\$59	OPA 2010
2009 Great Refrigerator Roundup	Chest Freezer - Energy Star Unit Replacement - Running All Time (100% of time)	14	4	48%	1,012	\$286	OPA 2010
2009 Great Refrigerator Roundup	Side by Side Fridge-Freezer - Not Replaced - Running Part Time (38% of the time)	0	5	46%	507	\$4	OPA 2010
2009 Great Refrigerator Roundup	Side by Side Fridge-Freezer - Standard Efficiency Unit Replacement - Running Part Time (38% of the time)	0	5	46%	260	\$1	OPA 2010
2009 Great Refrigerator Roundup	Side by Side Fridge-Freezer - Energy Star Unit Replacement - Running Part Time (38% of the time)	1	5	46%	309	\$5	OPA 2010
2009 Great Refrigerator Roundup	Side by Side Fridge-Freezer - Not Replaced - Running All Time (100% of time)	3	5	46%	1,331	\$73	OPA 2010
2009 Great Refrigerator Roundup	Side by Side Fridge-Freezer - Standard Efficiency Unit Replacement - Running All Time (100% of time)	1	5	46%	682	\$14	OPA 2010
2009 Great Refrigerator Roundup	Side by Side Fridge-Freezer - Energy Star Unit Replacement - Running All Time (100% of time)	5	5	46%	812	\$86	OPA 2010
2009 Great Refrigerator Roundup	Single Door Fridge - Not Replaced - Running Part Time (38% of the time)	0	5	46%	418	\$4	OPA 2010
2009 Great Refrigerator Roundup	Single Door Fridge - Standard Efficiency Unit Replacement - Running Part Time (38% of the time)	0	5	46%	237	\$1	OPA 2010
2009 Great Refrigerator Roundup	Single Door Fridge - Energy Star Unit Replacement - Running Part Time (38% of the time)	1	5	46%	273	\$5	OPA 2010
2009 Great Refrigerator	Single Door Fridge - Not Replaced - Running All	3	5	46%	1,097	\$72	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
Roundup	Time (100% of time)						
2009 Great Refrigerator Roundup	Single Door Fridge - Standard Efficiency Unit Replacement - Running All Time (100% of time)	1	5	46%	623	\$15	OPA 2010
2009 Great Refrigerator Roundup	Single Door Fridge - Energy Star Unit Replacement - Running All Time (100% of time)	6	5	46%	718	\$92	OPA 2010
2009 Great Refrigerator Roundup	Top Freezer Fridge - Not Replaced - Running Part Time (38% of the time)	3	5	46%	470	\$32	OPA 2010
2009 Great Refrigerator Roundup	Top Freezer Fridge - Standard Efficiency Unit Replacement - Running Part Time (38% of the time)	1	5	46%	252	\$6	OPA 2010
2009 Great Refrigerator Roundup	Top Freezer Fridge - Energy Star Unit Replacement - Running Part Time (38% of the time)	6	5	46%	295	\$39	OPA 2010
2009 Great Refrigerator Roundup	Top Freezer Fridge - Not Replaced - Running All Time (100% of time)	23	5	46%	1,234	\$609	OPA 2010
2009 Great Refrigerator Roundup	Top Freezer Fridge - Standard Efficiency Unit Replacement - Running All Time (100% of time)	9	5	46%	661	\$121	OPA 2010
2009 Great Refrigerator Roundup	Top Freezer Fridge - Energy Star Unit Replacement - Running All Time (100% of time)	45	5	46%	776	\$745	OPA 2010
2009 Great Refrigerator Roundup	Upright Freezer - Not Replaced - Running Part Time (26% of the time)	0	4	48%	365	\$1	OPA 2010
2009 Great Refrigerator Roundup	Upright Freezer - Standard Efficiency Unit Replacement - Running Part Time (26% of the time)	0	4	48%	180	\$0	OPA 2010
2009 Great Refrigerator Roundup	Upright Freezer - Energy Star Unit Replacement - Running Part Time (26% of the time)	0	4	48%	189	\$0	OPA 2010
2009 Great Refrigerator Roundup	Upright Freezer - Not Replaced - Running All Time (100% of time)	1	4	48%	1,416	\$20	OPA 2010
2009 Great Refrigerator Roundup	Upright Freezer - Standard Efficiency Unit Replacement - Running All Time (100% of time)	0	4	48%	697	\$3	OPA 2010
2009 Great Refrigerator Roundup	Upright Freezer - Energy Star Unit Replacement - Running All Time (100% of time)	1	4	48%	736	\$13	OPA 2010
2009 Great Refrigerator	Dehumidifier - Not Replaced - Running All Time	1	4	64%	960	\$13	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
Roundup	(100% of time)						
2009 Great Refrigerator Roundup	Dehumidifier - Standard Efficiency Unit Replacement - Running All Time (100% of time)	1	4	64%	540	\$4	OPA 2010
2009 Great Refrigerator Roundup	Dehumidifier - Energy Star Unit Replacement - Running All Time (100% of time)	2	4	64%	463	\$10	OPA 2010
2009 Great Refrigerator Roundup	Window Air Conditioner - Not Replaced - Running All Time (100% of time)	2	3	64%	371	\$9	OPA 2010
2009 Great Refrigerator Roundup	Window Air Conditioner - Standard Efficiency Unit Replacement - Running All Time (100% of time)	0	3	64%	118	\$0	OPA 2010
2009 Great Refrigerator Roundup	Window Air Conditioner - Energy Star Unit Replacement - Running All Time (100% of time)	1	3	64%	141	\$2	OPA 2010
2009 Cool Savings Rebate	Energy Star® 14.5 SEER (Tier 1) Central Air Conditioner (CAC)	70	18	42%	113	\$179	OPA 2010
2009 Cool Savings Rebate	Energy Star® 14.5 SEER (Tier 1) Central Air Conditioner (CAC) with change in behaviour	11	18	42%	317	\$79	OPA 2010
2009 Cool Savings Rebate	Energy Star® 15.0 SEER (Tier 2) Central Air Conditioner (CAC)	184	18	42%	177	\$738	OPA 2010
2009 Cool Savings Rebate	Energy Star® 15.0 SEER (Tier 2) Central Air Conditioner (CAC) with change in behaviour	29	18	42%	366	\$239	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed before 1980, AHRI Matched CAC & Furnace, Continuous Fan, No change	16	19	60%	2,773	\$676	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed before 1980, AHRI Matched CAC & Furnace, Non-continuous Fan, No change	64	19	60%	324	\$325	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed before 1980, AHRI Matched CAC & Furnace, Continuous Fan, Change	5	19	60%	91	\$7	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
	from non-continuous						
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed before 1980, Unmatched CAC & Furnace, Continuous Fan, No change	28	19	60%	2,823	\$1,214	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed before 1980, Unmatched CAC & Furnace, Non-continuous Fan, No change	113	19	60%	373	\$660	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed before 1980, Unmatched CAC & Furnace, Continuous Fan, Change from non-continuous	9	19	60%	140	\$20	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed before 1980, Heating only, Continuous Fan, No change	5	19	60%	1,535	\$108	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed before 1980, Heating only, Non-continuous Fan, No change	19	19	60%	324	\$94	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed before 1980, Heating only, Continuous Fan, Change from non-continuous	1	19	60%	192	\$4	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed after 1980, AHRI Matched CAC & Furnace, Continuous Fan, No change	18	19	60%	2,867	\$820	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed after 1980, AHRI Matched CAC & Furnace, Non-continuous Fan, No change	75	19	60%	207	\$243	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed after 1980, AHRI	6	19	60%	(49)	(\$5)	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
	Matched CAC & Furnace, Continuous Fan, Change from non-continuous						
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed after 1980, Unmatched CAC & Furnace, Continuous Fan, No change	32	19	60%	2,927	\$1,478	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed after 1980, Unmatched CAC & Furnace, Non-continuous Fan, No change	133	19	60%	267	\$554	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed after 1980, Unmatched CAC & Furnace, Continuous Fan, Change from non-continuous	11	19	60%	11	\$2	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed after 1980, Heating only, Continuous Fan, No change	5	19	60%	1,570	\$130	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed after 1980, Heating only, Non-continuous Fan, No change	22	19	60%	207	\$70	OPA 2010
2009 Cool Savings Rebate	Furnace with Electronically Commutated Motor (ECM), Home constructed after 1980, Heating only, Continuous Fan, Change from non-continuous	2	19	60%	76	\$2	OPA 2010
2009 Cool Savings Rebate	Programmable Thermostat - Central Air Conditioning (CAC) & Gas heating	146	15	61%	30	\$68	OPA 2010
2009 Cool Savings Rebate	Programmable Thermostat - Energy Star® Central Air Conditioning (CAC) & Gas Heating	196	15	61%	26	\$77	OPA 2010
2009 Cool Savings Rebate	Programmable Thermostat - Gas Heating only	42	15	61%	9	\$6	OPA 2010
2009 Cool Savings Rebate	Participant Spillover - Lighting	20	5	0%	40	\$32	OPA 2010
2009 Cool Savings Rebate	Participant Spillover - Cooling or Heating	7	3	0%	100	\$27	OPA 2010
2009 Cool Savings Rebate	Participant Spillover - Water heating	10	10	0%	141	\$55	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
2009 Cool Savings Rebate	Participant Spillover - Appliances	14	4	0%	76	\$41	OPA 2010
2009 Cool Savings Rebate	Participant Spillover - Insulation of other weatherization	21	10	0%	75	\$60	OPA 2010
2009 Cool Savings Rebate	Participant Spillover - Windows	16	10	0%	100	\$63	OPA 2010
2009 Cool Savings Rebate	Participant Spillover - Roof products	8	15	0%	50	\$15	OPA 2010
2009 Cool Savings Rebate	Participant Spillover - Other products	9	5	0%	50	\$17	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Energy Star Qualified Compact Fluorescent - Spring Campaign - Participant Rebated	772	8	31%	23	\$482	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	ENERGY STAR Decorative CFLs - Spring Campaign - Participant Rebated	1,831	6	23%	26	\$1,431	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	ENERGY STAR Fixtures - Spring Campaign - Participant Rebated	149	16	47%	116	\$359	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	ENERGY STAR Ceiling Fans - Spring Campaign - Participant Rebated	64	10	24%	71	\$138	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Heavy Duty Pool and Spa Timers - Spring Campaign - Participant Rebated	24	10	24%	454	\$327	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Clotheslines - Spring Campaign - Participant Rebated	62	10	45%	77	\$104	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Pipe Wrap - Spring Campaign - Participant Rebated	51	6	22%	8	\$13	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Water Blanket - Spring Campaign - Participant Rebated	7	10	20%	52	\$11	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Energy Star Qualified Window Air Conditioner - Spring Campaign - Participant Promoted	63	12	33%	96	\$161	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Energy Star Qualified Dehumidifiers - Spring Campaign - Participant Promoted	60	12	32%	284	\$457	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Programmable Thermostat - Spring Campaign - Participant Promoted	148	15	55%	138	\$362	OPA 2010
2009 Every Kilowatt Counts	Solar Power Products - Spring Campaign -	386	5	40%	5	\$44	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
Power Savings Event	Participant Promoted						
2009 Every Kilowatt Counts Power Savings Event	Control Products - Spring Campaign - Participant Promoted	192	10	47%	72	\$290	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Reduce power to electronics (Behavioural) - Spring Campaign - Participant Spillover	80	1	85%	21	\$3	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Installed CFLs - Spring Campaign - Participant Spillover	71	8	87%	101	\$37	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Washed in Cold Laundry (Behavioural) - Spring Campaign - Participant Spillover	70	1	86%	30	\$4	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Turned off/Reduced lights (Behavioural) - Spring Campaign - Participant Spillover	65	1	88%	263	\$26	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Dried clothes outside or on rack (Behavioural) - Spring Campaign - Participant Spillover	57	1	89%	74	\$6	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Installed a new energy efficient appliance - Refrigerator - Spring Campaign - Participant Spillover	51	14	86%	65	\$18	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Unplugged devices usually left plugged in (Behavioural) - Spring Campaign - Participant Spillover	49	1	80%	70	\$9	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Installed a new energy efficient appliance - Clothes washing machine - Spring Campaign - Participant Spillover	31	14	88%	122	\$17	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Added ceiling/attic/wall/basement insulation - Spring Campaign - Participant Spillover	31	20	88%	394	\$55	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Installed Programmable Thermostat - Spring Campaign - Participant Spillover	30	15	87%	308	\$46	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Energy Star Qualified Compact Fluorescent - Spring Campaign - Non-Participant Rebated	588	8	65%	22	\$180	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	ENERGY STAR Decorative CFLs - Spring Campaign - Non-Participant Rebated	292	6	60%	26	\$119	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
2009 Every Kilowatt Counts Power Savings Event	ENERGY STAR Fixtures - Spring Campaign - Non-Participant Rebated	275	16	59%	68	\$297	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	ENERGY STAR Ceiling Fans - Spring Campaign - Non-Participant Rebated	80	10	86%	71	\$30	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Heavy Duty Pool and Spa Timers - Spring Campaign - Non-Participant Rebated	51	10	86%	454	\$122	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Clotheslines - Spring Campaign - Non-Participant Rebated	186	10	86%	77	\$76	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Pipe Wrap - Spring Campaign - Non-Participant Rebated	431	6	86%	8	\$18	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Water Blanket - Spring Campaign - Non-Participant Rebated	63	10	86%	52	\$18	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Energy Star Qualified Window Air Conditioner - Spring Campaign - Non-Participant Promoted	106	12	57%	96	\$173	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Energy Star Qualified Dehumidifiers - Spring Campaign - Non-Participant Promoted	127	12	56%	284	\$622	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Programmable Thermostat - Spring Campaign - Non-Participant Promoted	199	15	71%	138	\$314	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Solar Power Products - Spring Campaign - Non-Participant Promoted	1,290	5	61%	5	\$95	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Control Products - Spring Campaign - Non-Participant Promoted	444	10	66%	72	\$433	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Energy Star Qualified Compact Fluorescent - Autumn Campaign - Participant Rebated	3,494	8	31%	25	\$2,426	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	ENERGY STAR Specialty CFLs - Autumn Campaign - Participant Rebated	1,413	6	29%	21	\$825	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	ENERGY STAR Fixtures - Autumn Campaign - Participant Rebated	169	16	30%	119	\$552	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Weatherstripping - adhesive foam or V-strip - Autumn Campaign - Participant Rebated	156	15	43%	15	\$54	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
2009 Every Kilowatt Counts Power Savings Event	Weatherstripping - door frame kits - Autumn Campaign - Participant Rebated	102	15	47%	17	\$37	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Programmable Thermostat - Autumn Campaign - Participant Rebated	68	15	33%	32	\$58	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Pipe Wrap - Autumn Campaign - Participant Rebated	58	6	55%	7	\$7	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Water Blanket - Autumn Campaign - Participant Rebated	13	10	37%	56	\$18	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Lighting/Appliance Controls - Autumn Campaign - Participant Rebated	118	17	28%	21	\$72	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Energy Star Qualified Holiday LED Lights - Autumn Campaign - Participant Promoted	416	5	41%	14	\$131	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Dimmer Switches - Autumn Campaign - Participant Promoted	175	10	50%	24	\$81	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Solar Powered Products - Autumn Campaign - Participant Promoted	340	4	48%	6	\$39	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Washed laundry with cold water - Autumn Campaign - Participant Spillover	124	1	83%	30	\$8	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Turned off / reduced use of power to electronics - Autumn Campaign - Participant Spillover	114	1	81%	21	\$6	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Turned off / reduced use of lights - Autumn Campaign - Participant Spillover	106	1	83%	263	\$60	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Dried clothes outside or inside on a rack - Autumn Campaign - Participant Spillover	75	1	87%	74	\$9	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Turned down the thermostat setting on my furnace - Autumn Campaign - Participant Spillover	75	1	81%	270	\$49	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Unplugged devices usually plugged into outlet - Autumn Campaign - Participant Spillover	71	1	82%	70	\$12	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Installed a new energy efficient appliance – Refrigerator - Autumn Campaign - Participant	71	14	75%	65	\$44	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
	Spillover						
2009 Every Kilowatt Counts Power Savings Event	Added ceiling/attic/wall/basement insulation - Autumn Campaign - Participant Spillover	57	20	78%	394	\$193	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Replaced my old furnace with a high efficiency furnace - Autumn Campaign - Participant Spillover	51	15	80%	352	\$137	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Installed a new energy efficient appliance - Clothes washing machine - Autumn Campaign - Participant Spillover	46	15	81%	142	\$50	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Energy Star Qualified Compact Fluorescent - Autumn Campaign - Non-Participant Rebated	3,182	8	86%	24	\$406	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	ENERGY STAR Specialty CFLs - Autumn Campaign - Non-Participant Rebated	1,011	6	85%	30	\$179	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	ENERGY STAR Fixtures - Autumn Campaign - Non-Participant Rebated	282	16	76%	36	\$97	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Weatherstripping - adhesive foam or V-strip - Autumn Campaign - Non-Participant Rebated	1,097	15	93%	15	\$46	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Weatherstripping - door frame kits - Autumn Campaign - Non-Participant Rebated	836	15	94%	17	\$36	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Programmable Thermostat - Autumn Campaign - Non-Participant Rebated	166	15	83%	83	\$94	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Pipe Wrap - Autumn Campaign - Non-Participant Rebated	777	6	89%	6	\$20	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Water Blanket - Autumn Campaign - Non-Participant Rebated	97	10	78%	40	\$33	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Lighting/Appliance Controls - Autumn Campaign - Non-Participant Rebated	829	17	90%	42	\$139	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Energy Star Qualified Holiday LED Lights - Autumn Campaign - Non-Participant Promoted	1,358	5	65%	14	\$255	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Dimmer Switches - Autumn Campaign - Non-Participant Promoted	428	10	73%	24	\$108	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
2009 Every Kilowatt Counts Power Savings Event	Solar Powered Products - Autumn Campaign - Non-Participant Promoted	687	4	58%	5	\$52	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Working Room Air Conditioner Retirement - Rewards for Recycling Campaign - Incented	33	6	62%	32	\$16	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Working Room Dehumidifier Retirement - Rewards for Recycling Campaign - Incented	30	8	53%	300	\$166	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Working Halogen Torchire Retirement - Rewards for Recycling Campaign - Incented	10	10	49%	58	\$12	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Recycled Second Refrigerator - Rewards for Recycling Campaign - Spillover	7	14	64%	1,238	\$121	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Recycled Additional Room Air Conditioner - Rewards for Recycling Campaign - Spillover	6	6	64%	30	\$2	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Recycled Central Air Conditioner - Rewards for Recycling Campaign - Spillover	5	18	64%	72	\$5	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Recycled Additional Room Dehumidifier - Rewards for Recycling Campaign - Spillover	6	8	64%	309	\$26	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Installed Energy Star® Windows - Rewards for Recycling Campaign - Spillover	10	20	82%	1,530	\$105	OPA 2010
2009 Every Kilowatt Counts Power Savings Event	Installed Energy Star® CFL Bulbs - Rewards for Recycling Campaign - Spillover	32	8	82%	45	\$10	OPA 2010
2009 peaksaver®	Residential Air Conditioner - Switch	71	13	10%	6	\$31	OPA 2010
2009 peaksaver®	Residential Air Conditioner - Thermostat	356	13	10%	6	\$155	OPA 2010
2009 peaksaver®	Residential Electric Water Heater	4	13	10%	9	\$2	OPA 2010
2009 Electricity Retrofit Incentive	All projects	1	6	27%	5,278,421	\$56,316	OPA 2010
2009 High Performance New Construction	Custom	1	20	30%	81,565	\$1,718	OPA 2010
2009 Power Savings Blitz	Custom	1	9	5%	1,176,790	\$33,644	OPA 2010

Program	Energy Efficient Measure	Units	Measure life	LRAM Free Rider rate	Annual energy savings (kWh/a)	Contribution to LRAM (2012\$)	Assumption Source
2010 Cool Savings Rebate	All measures	682	0	58%	614	\$4,650	OPA 2011c
2010 Every Kilowatt Counts Power Savings Event	All measures	4,299	0	54%	67	\$3,527	OPA 2011c
2010 Great Refrigerator Roundup	All measures	294	0	47%	1,095	\$4,499	OPA 2011c
2010 peaksaver®	All residential measures	222	0	9%	2	\$46	OPA 2011c
2010 Electricity Retrofit Incentive	All measures	31	0	49%	143,753	\$27,050	OPA 2011c
2010 High Performance New Construction	All measures	2	0	30%	145,999	\$3,947	OPA 2011c
2010 Multifamily Energy Efficiency Rebates	All measures	10	0	26%	75,155	\$11,532	OPA 2011c
2010 Power Savings Blitz	All measures	285	0	0%	2,683	\$15,537	OPA 2011c
2010 peaksaver®	All commercial measures	4	0	9%	7	\$1	OPA 2011c
Total LRAM						\$686,841	

Table 11 –LRAM contributions and carrying charges.

Funding	Program	Year	LRAM	Carrying charges	Total
OPA	Affordable Housing Pilot	2007	\$14,644	\$689	\$15,333
	Cool Savings Rebate	2006	\$7,455	\$480	\$7,935
		2007	\$9,555	\$451	\$10,006
		2008	\$8,425	\$273	\$8,698
		2009	\$7,919	\$181	\$8,100
		2010	\$4,567	\$82	\$4,650
	Electricity Retrofit Incentive	2008	\$17,047	\$541	\$17,589
		2009	\$55,056	\$1,261	\$56,316
		2010	\$26,570	\$479	\$27,050
	Energy Efficiency Assistance for Houses Pilot	2007	\$12,092	\$569	\$12,661
	Every Kilowatt Counts Power Savings Event	2008	\$42,264	\$1,381	\$43,645
		2009	\$13,388	\$308	\$13,695
		2010	\$3,464	\$63	\$3,527
	Great Refrigerator Roundup	2007	\$2,981	\$140	\$3,122
		2008	\$9,977	\$323	\$10,300
		2009	\$2,598	\$59	\$2,658
		2010	\$4,419	\$80	\$4,499
	High Performance New Construction	2008	\$71	\$2	\$73
		2009	\$1,680	\$38	\$1,718
		2010	\$3,877	\$70	\$3,947
	Multifamily Energy Efficiency Rebates	2010	\$11,327	\$204	\$11,532
	peaksaver®	2008	\$394	\$13	\$407
		2009	\$183	\$4	\$187
		2010	\$46	\$1	\$47
	Power Savings Blitz	2008	\$3,843	\$129	\$3,972
		2009	\$32,896	\$748	\$33,644
		2010	\$15,262	\$275	\$15,537
	Renewable Energy Standard Offer	2008	\$718	\$23	\$741
		2007	\$201	\$9	\$210
	Secondary Refrigerator Retirement Pilot	2006	\$2,904	\$194	\$3,098
	Social Housing Pilot	2007	\$5,217	\$246	\$5,463
	Summer Savings	2007	\$9,468	\$854	\$10,322
	Summer Sweepstakes	2008	\$14,892	\$483	\$15,374
Third Tranche	Cool Shops	2005	\$22,611	\$2,086	\$24,697
	Energy Star Appliances	2005	\$3,214	\$229	\$3,443
		2006	\$3,714	\$192	\$3,906
		2007	\$2,188	\$79	\$2,267
	Every Kilowatt Counts	2006	\$135,209	\$11,400	\$146,609
		2007	\$56,746	\$2,684	\$59,430
	Lighting for social housing	2007	\$44,343	\$1,611	\$45,953
	Load monitor	2005	\$462	\$33	\$495

Funding	Program	Year	LRAM	Carrying charges	Total
		2006	\$533	\$28	\$561
		2007	\$145	\$5	\$150
	Storage Heating	2005	\$15,583	\$1,109	\$16,692
Third Tranche subtotal		2006	\$25,273	\$1,308	\$26,582
Total			\$655,421	\$31,420	\$686,841



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Appendix P

2006-2010 Final OPA CDM Results PDI

OPA Conservation & Demand Management Programs

Annual Results at the End-User Level

For: Peterborough Distribution Incorporated

Net Summer Peak Demand Savings (MW)

#	Program Year	Results Status	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1	2006 Programs	Final	1.9586	0.1319	0.1319	0.1319	0.1319	0.1319	0.1228	0.1228	0.0960	0.0960	0.0960	0.0960	0.0960	0.0960	0.0588	0.0401	0.0401	0.0401	0.0011	0.0011	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	2007 Programs	Final	0.0000	5.2458	2.8276	2.7783	2.7783	2.7780	2.7701	2.7701	2.7447	2.7402	2.7230	2.7230	0.1733	0.1733	0.1208	0.0445	0.0443	0.0443	0.0268	0.0028	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	2008 Programs	Final	0.0000	0.0000	4.3848	0.7576	0.7535	0.7535	0.7489	0.7489	0.7397	0.7366	0.7222	0.7075	0.6992	0.6918	0.3036	0.3012	0.2638	0.1355	0.1355	0.0503	0.0503	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	2009 Programs	Final	0.0000	0.0000	0.0000	4.4155	1.2311	1.2311	1.2291	1.2181	1.2006	1.1980	1.1054	1.0976	0.8110	0.8061	0.3837	0.3727	0.1695	0.1690	0.1568	0.1557	0.1557	0.1210	0.0256	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	2010 Programs	Final	0.0000	0.0000	0.0000	0.0000	3.6877	1.0565	1.0562	1.0554	1.0478	1.0295	1.0291	1.0291	0.7801	0.7735	0.3296	0.3296	0.3293	0.2024	0.2024	0.1972	0.1966	0.1966	0.1800	0.0849	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			1.9586	5.3747	7.3443	8.0832	8.5825	5.9510	5.9271	5.9153	5.8542	5.8048	5.6929	5.6472	5.1093	2.5482	1.6373	1.1669	0.8846	0.7196	0.5400	0.5163	0.4055	0.3680	0.2056	0.0849	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Net Energy Savings (MWh)

#	Program Year	Results Status	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1	2006 Programs	Final	2,724	2,724	2,724	2,724	473	473	433	433	407	407	384	384	384	384	348	302	302	302	163	163	95	95	95	95	95	11	11	11	11	11
2	2007 Programs	Final	0	2,193	1,708	1,649	1,649	1,649	1,611	1,611	1,611	792	750	610	610	610	354	219	215	215	195	3	0	0	0	0	0	0	0	0	0	0
3	2008 Programs	Final	0	0	2,283	2,092	2,063	2,063	1,936	1,935	1,803	1,705	1,396	1,228	1,160	1,160	1,147	1,134	1,131	984	182	182	49	49	0	0	0	0	0	0	0	0
4	2009 Programs	Final	0	0	0	6,316	5,770	5,770	5,768	5,700	5,560	4,900	4,486	3,904	3,274	2,683	377	341	340	335	293	266	261	229	86	0	0	0	0	0	0	0
5	2010 Programs	Final	0	0	0	0	5,205	4,241	4,237	4,236	4,185	4,002	3,988	3,739	3,199	968	406	406	402	402	388	373	373	357	194	0	0	0	0	0	0	0
Total			2,724	4,917	6,715	12,781	15,159	14,195	13,984	13,915	13,566	11,804	11,003	9,864	8,626	5,804	2,888	2,537	2,395	2,238	1,255	1,195	782	747	519	289	95	11	11	11	11	11

Gross Summer Peak Demand Savings (MW)

#	Program Year	Results Status	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1	2006 Programs	Final	1.9830	0.1562	0.1562	0.1562	0.1562	0.1562	0.1461	0.1461	0.1164	0.1164	0.1164	0.1164	0.1164	0.1164	0.0750	0.0459	0.0459	0.0459	0.0013	0.0013	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	2007 Programs	Final	0.0000	8.0007	3.9414	3.5304	3.5298	3.4796	3.4796	3.4796	3.4431	3.4318	3.4086	3.4086	0.5757	0.5757	0.1903	0.0577	0.0573	0.0573	0.0268	0.0028	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	2008 Programs	Final	0.0000	0.0000	4.7027	1.0626	1.0583	1.0583	1.0461	1.0461	1.0261	1.0178	0.9916	0.9521	0.9468	0.9300	0.4986	0.4952	0.4392	0.2092	0.2092	0.0613	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	2009 Programs	Final	0.0000	0.0000	0.0000	4.9976	1.8098	1.8098	1.8054	1.7825	1.7502	1.7447	1.6310	1.6136	1.3120	1.3009	0.6327	0.6116	0.3858	0.3837	0.3433	0.3412	0.3412	0.2802	0.0398	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	2010 Programs	Final	0.0000	0.0000	0.0000	0.0000	4.3067	1.6760	1.6760	1.6737	1.6587	1.6245	1.6237	1.6237	1.3722	1.3611	0.5364	0.5364	0.5356	0.3946	0.3946	0.3822	0.3810	0.3810	0.3531	0.1213	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total			1.9830	8.1569	8.8003	9.7468	10.8614	8.2301	8.1531	8.1279	8.0308	7.9464	7.7944	7.7144	7.1560	4.3009	2.7498	1.8827	1.5201	1.3206	1.0056	0.9606	0.7862	0.7224	0.3928	0.1213	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Gross Energy Savings (MWh)

#	Program Year	Results Status	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1	2006 Programs	Final	3,042	3,042	3,042	3,042	541	541	496	496	467	467	442	442	442	442	402	337	337	337	181	181	106	106	106	106	106	12	12	12	12	12
2	2007 Programs	Final	0	6,921	2,953	2,456	2,456	2,456	2,340	2,340	2,340	1,187	1,082	896	896	896	471	236	228	228	195	3	0	0	0	0	0	0	0	0	0	0
3	2008 Programs	Final	0	0	4,381	4,129	4,097	4,097	3,767	3,767	3,471	3,208	2,656	2,349	2,203	2,174	2,159	2,154	1,953	290	290	59	59	0	0	0	0	0	0	0	0	0
4	2009 Programs	Final	0.0000	0.0000	0.0000	9,342.3184	8,717.1778	8,717.1778	8,712.6912	8,580.8212	8,315.8695	7,475.7406	6,975.3165	6,249.5877	5,586.7981	4,591.5438	932.2835	862.8539	862.4365	842.2009	687.5232	633.9260	597.0787	541.3524	130.4895	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	2010 Programs	Final	0	0	0	0	8,234	7,286	7,285	7,283	7,184	6,760	6,509	5,949	5,494	1,861	776	776	767	766	738	701	701	675	277	0	0	0	0	0	0	0
Total			3,042	9,963	10,376	18,969	24,045	23,097	22,602	22,467	21,779	19,122	17,915	16,446	15,077	9,994	5,181	4,606	4,356	4,126	2,153	2,038	1,467	1,408	912	383	106	12	12	12	12	12