



2008 ANNUAL REPORT  
CDM Third Tranche Funding  
KENORA HYDRO

ED – 2003-0030  
March 31, 2009

- Janice Robertson
- Manager of Finance  
& Regulatory Affairs
- [jrobertson@kenora.ca](mailto:jrobertson@kenora.ca)
- Phone (807) 467-2014
- Fax (807) 467-2068



## INTRODUCTION

Throughout 2008, Kenora Hydro Electric Corporation Ltd continued to develop and deploy its approved programs for Conservation and Demand Management. By year end 2008, all of the \$141,455 “Third Tranche” funding has been spent.

Program	Public Awareness	Load Control	Smart Meter	Traffic Lights	Business
Cumulative Spending	\$53,501	\$39,946	\$4,146	\$26,000	\$17,862
Budget	\$37,000	\$53,455	\$5,000	\$26,000	\$20,000
Over (Under) Budget	\$16,501	\$(13,509)	\$(854)	\$0	\$(2,138)

## EVALUATION OF THE CDM PLAN

Kenora Hydro was able to effectively and efficiently delivery a wide variety of programs, designed to both educate and help our customers conserve energy in their homes and businesses. We have had many positive comments and suggestions from customers and overall we consider the CDM Programs a success.

## DISCUSSION OF THE PROGRAMS

### **Public Awareness**

#### *Home Show Booth*

Kenora Hydro rented a booth at the local Home Show in April 2008. Information on local CDM programs was displayed, and a draw was made for one umbrella type clothes dryer. This display was educational, promoting conservation.



## **Public Awareness – con't**

### **Pancake Breakfast**

In conjunction with a planned day-long power outage to accommodate transformer replacement, we held a free pancake breakfast for Kenora residents on the harbourfront in May. We had displays and booths with energy saving information and giveaways, including Frisbees, balloons and CFL light bulbs. This event was very well received and well attended, serving 1,059 plates. A draw was held from attendees for a \$500 rebate towards the purchase of an energy star appliance. This event was intended to promote conservation and make the public aware of the CDM programs available.

### **Energy Star Rebates**

From May to November, rebates were offered on qualifying energy star appliances. This was a popular program, with rebates on 103 Energy Star appliances awarded. Rebates were also offered on programmable thermostats, those results were disappointing with only two rebates for thermostats were applied for and granted.

### **Home Energy Assessments**

Late in the year, a rebate program was developed to provide Kenora customers with a \$100 rebate toward the purchase price of a home energy inspection. The inspection was performed by two companies qualified under the Natural Resources program and was the first step for homeowners to access home energy retrofit grants under both Federal and Provincial programs. This program was extremely successful. A mass mail out was done to all current residential customers, directing them to call the two qualified companies to set up an inspection. The two companies were inundated with calls and bookings. In the very short time the program was offered, there were 60 homes inspected and rebates given. This program was an overwhelming success, and to accommodate the customers that were unable to book by year end, Kenora Hydro has arranged to rebate those customers from our own 2009 budget.

### **Christmas Light Exchange**

660 boxes of indoor/outdoor LED Christmas lights were purchased and customers were invited to the local Home Hardware to produce their Kenora Hydro bill and trade an old inefficient string for a new LED set. Those in attendance were very appreciative of the energy saving opportunity.



## **Public Awareness – con't**

### **Kill-A-Watt Meters**

15 Kill-A-Watt Power monitors were purchased for customers to borrow and take home to educate themselves about the power consumption of appliances in their home. The monitors have been popular, many customers have noted their surprise at the consumption of some of the normal appliances in their homes. These monitors are an excellent consumer awareness and educational tool.

### **Marketing Campaign**

A professional marketing and advertising campaign was developed to help promote our conservation programs and develop slogans and ideas for future conservation ads. This campaign had a residential focus but cannot be attributed to any one specific program.

## **Load Control**

### **Intelligent Parking Lot Controller Units**

Rebates were offered on the installation of IPLC's for our general service customers. 54 rebates were given on the IPLC's.

### **Load Control Seminar**

All General Service over 50 kw/month customers were invited to attend a load control seminar, hosted by an experienced firm out of Winnipeg. Although 60 customers were invited by direct mail, we received a disappointing turnout of 5. We had offered the chance to win an energy audit of their business for those in attendance at the seminar. Due to the low turnout, it was determined that it was possible to offer audits to each of the businesses in attendance. The audits were well received and it is expected that each business will be implementing some of the energy saving opportunities discovered through the audit process.

## **Business Awareness**

### **Hospital Tree of Lights**

The Hospital Foundation fundraises annually through the 'sale' of lights on a tree at the Hospital. Kenora Hydro exchanged 80 strings of old inefficient bulbs for new bright white LEDs. The annual savings to this not-for-profit organization are measurable.



## **Business Awareness – con't**

### **Business Conservation Kits**

To help raise awareness and promote conservation to our business class customers, 200 Conservation Kits were developed, including a box of 2 CFL's, a power bar, two programmable plug ins and a power monitor (plug in energy meter). Random business names were selected and the business owner was contacted to pick up their kit. Positive feedback was received on the kits, with business stating that this was a good selection of products, all of which had been put to use in conserving energy.

### **Chamber of Commerce Dinner CFL's**

Thirty 13W CFL bulbs were donated to the Chamber of Commerce for their annual meeting and business awards night with approximately 300 in attendance. The CFL's were a part of the "Go Green" theme of the centerpieces at the dinner and were given to one attendee at each table. This was a small educational program for business customers.

### **Commercial Rebate Program**

This program proved to be disappointing. We offered commercial customers rebates on programmable thermostats, electric hot water tank wraps, LED Exit sign retrofit, Intelligent Parking Lot Controller units and electric hot water on demand systems. With the exception of the IPLC's, no rebates were awarded from this campaign.

## **LESSONS LEARNED**

As a small LDC, it was difficult to develop and manage these programs with existing resources. It was a huge challenge to develop programs that sparked interest in the community. We also became very aware of how difficult it is to promote the available programs, without spending the entire program budget on advertising.

## **CONCLUSION**

Kenora Hydro was challenged in 2008 to effectively and efficiently create and administer CDM programs to exhaust out third tranche allocations. By year end, we were pleased to have prudently spent the funds as required. Customer feedback on the major programs was very positive, in some cases the demand for the program exceeded the budget. The home energy audit program was extended into 2009 at our expense, due to the overwhelming response.

## **DISCUSSION OF REMAINING BLANCE OF 3<sup>RD</sup> TRANCHE CDM BUDGETS**

Kenora Hydro has spent 100% of the 3<sup>rd</sup> tranche allocations.

## **Appendix A - Evaluation of the CDM Plan**

to be completed manually, white boxes are linked to Appendix C and will be brought f

	Total for 2008	Residential	Commercial
<i>Net TRC value (\$):</i>	\$ 39,171	\$ 1,525	\$ 37,646
<i>Benefit to cost ratio:</i>	2.40	1.11	3.65
<i>Number of participants or units delivered:</i>	1,237	727	510
<i>Lifecycle (kWh) Savings:</i>	977,255	293,700	683,555
<i>Report Year Total kWh saved (kWh):</i>	87,364	19,580	67,784
<i>Total peak demand saved (kW):</i>	21	6	15
<i>Total kWh saved as a percentage of total kWh delivered (%):</i>	0.08%	0.02%	0.06%
<i>Peak kW saved as a percentage of LDC peak kW load (%):</i>	0.10%	0.03%	0.07%
<sup>1</sup> <i>Report Year Gross C&amp;DM expenditures (\$):</i>	\$ 95,124	\$ 49,017	\$ 46,107
<sup>2</sup> <i>Expenditures per kWh saved (\$/kWh):</i>	\$ 0.10	\$ 0.17	\$ 0.07
<sup>3</sup> <i>Expenditures per kW saved (\$/kW):</i>	\$ 4,529.71	\$ 8,169.50	\$ 3,073.80

<i>Utility discount rate (%):</i>	7.75
-----------------------------------	------

<sup>1</sup> Expenditures are reported on accrual basis.

<sup>2</sup> Expenditures include all utility program costs (direct and indirect) for all programs which primarily generate ene

<sup>3</sup> Expenditures include all utility program costs (direct and indirect) for all programs which primarily generate cap

<sup>4</sup> Please report spending related to 3rd tranche of MARR funding only. TRC calculations are not required for Sr

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Home Show Booth

**Description of the program (including intent, design, delivery, partnerships and evaluation):**

Intent: Conservation awareness and education. Design: Booth rented at Annual Home Show. Delivery: Booth with current Kenora Hydro CDM and OPA programs and conservation tips. Draw for umbrella clothes line. Partnerships: City of Kenora assisted by manning the booth. Evaluation: Well received, educational.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or units delivered life to date			

B. <b>TRC Results:</b>	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):		
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):		
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:		
<b>Net TRC (in year CDN \$):</b>		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		

C. <b>Results:</b> (one or more category may apply)	Cumulative Results:	
<b>Conservation Programs:</b>		
Demand savings (kW):	Summer Winter lifecycle	in year
Energy saved (kWh):		
Other resources saved :		
Natural Gas (m3):		
Other (specify):		
<b>Demand Management Programs:</b>		
Controlled load (kW)		
Energy shifted On-peak to Mid-peak (kWh):		
Energy shifted On-peak to Off-peak (kWh):		
Energy shifted Mid-peak to Off-peak (kWh):		
<b>Demand Response Programs:</b>		
Dispatchable load (kW):		
Peak hours dispatched in year (hours):		
<b>Power Factor Correction Programs:</b>		
Amount of KVar installed (KVar):		
Distribution system power factor at beginning of year (%):		
Distribution system power factor at end of year (%):		
<b>Line Loss Reduction Programs:</b>		
Peak load savings (kW):		
Energy savings (kWh):	lifecycle	in year
<b>Distributed Generation and Load Displacement Programs:</b>		
Amount of DG installed (kW):		
Energy generated (kWh):		
Peak energy generated (kWh):		
Fuel type:		
<b>Other Programs (specify):</b>		
Metric (specify):		

D. <b>Actual Program Costs:</b>	Reporting Year	Cumulative Life to Date
Utility direct costs (\$):		
Incremental capital:		
Incremental O&M:	\$ 383.00	\$ 383.00
Incentive:		
Total:		
Utility indirect costs (\$):		
Incremental capital:		
Incremental O&M:		
Total:		

E. **Assumptions & Comments:**

<sup>1</sup> Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.  
<sup>2</sup> For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. Name of the Program: Pancake Breakfast

Description of the program (including intent, design, delivery, partnerships and evaluation):

Intent: Educational. Design: Hosted breakfast during power outage. Information on Kenora Hydro CDM and OPA conservation programs and general conservation awareness. \$500 rebate on one energy star appliance to draw winner. 67 CFL's given away. 5 clothes line kits given away. Delivery: Large tent on harbourfront, booths set up. Partnerships: Kenora Community Events & Services assisted in organizing and serving. City of Kenora had booth with City info, also ran a "Green Clean" event, bags given out for local trash collection. Evaluation: Very well received, over 1,500 breakfasts served, many positive comments and good press coverage of event.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Incandescent bulbs	Clothes dryer	
Efficient technology:	CFL 15W	Clothes line	
Number of participants or units delivered for reporting year:	67	5	
Measure life (years):	15	15	
Number of Participants or units delivered life to date	67	5	

	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):	\$ 5,849.00	5,849.00
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ 1,068.00	1,068.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	\$ 1,068.00	1,068.00
Net TRC (in year CDN \$):	\$ 4,781.00	4,781.00
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	\$ 5.47	5.47

C. Results: (one or more category may apply) Cumulative Results:

**Conservation Programs:**

Demand savings (kW):	Summer	0.117	0.117
	Winter	1.373	1.373
Energy saved (kWh):	lifecycle	116,355	7,757
	in year		
Other resources saved :			
Natural Gas (m3):			
Other (specify):			

**Demand Management Programs:**

Controlled load (kW)		
Energy shifted On-peak to Mid-peak (kWh):		
Energy shifted On-peak to Off-peak (kWh):		
Energy shifted Mid-peak to Off-peak (kWh):		

**Demand Response Programs:**

Dispatchable load (kW):		
Peak hours dispatched in year (hours):		

**Power Factor Correction Programs:**

Amount of KVar installed (KVar):		
Distribution system power factor at beginning of year (%):		
Distribution system power factor at end of year (%):		

**Line Loss Reduction Programs:**

Peak load savings (kW):		
Energy savings (kWh):	lifecycle	in year

**Distributed Generation and Load Displacement Programs:**

Amount of DG installed (kW):		
Energy generated (kWh):		
Peak energy generated (kWh):		
Fuel type:		

**Other Programs (specify):**

Metric (specify):		
-------------------	--	--

		Reporting Year	Cumulative Life to Date
D. Actual Program Costs:			
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:	\$ 14,202.00	\$ 14,202.00
	Incentive:	\$ 500.00	\$ 500.00
	Total:		
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

E. Assumptions & Comments:

<sup>1</sup> the number of units times the net present value per unit benefit specified in the TRC Guide.

<sup>2</sup> customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Energy Star Rebates

**Description of the program (including intent, design, delivery, partnerships and evaluation):**

Intent: Promote energy star appliance purchases/conservation. Design: Credit on hydro account given for receipts for eligible Energy Star rated appliances. Delivery: Forms available at City Hall, on website and at area retailers. Customer submitted application and copy of receipt, credit applied to Kenora Hydro account. Partnerships: Local appliance retailers passed out applications and made customers aware of the program. Evaluation: Very well received.

Measure(s):	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or units delivered life to date			

B. <b>TRC Results:</b>	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):		
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):		
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:		
<b>Net TRC (in year CDN \$):</b>		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		

C. <b>Results:</b> (one or more category may apply)	Cumulative Results:
<b>Conservation Programs:</b>	
Demand savings (kW):	
Summer	
Winter	
lifecycle	in year
Energy saved (kWh):	
Other resources saved :	
Natural Gas (m3):	
Other (specify):	
<b>Demand Management Programs:</b>	
Controlled load (kW)	
Energy shifted On-peak to Mid-peak (kWh):	
Energy shifted On-peak to Off-peak (kWh):	
Energy shifted Mid-peak to Off-peak (kWh):	
<b>Demand Response Programs:</b>	
Dispatchable load (kW):	
Peak hours dispatched in year (hours):	
<b>Power Factor Correction Programs:</b>	
Amount of KVar installed (KVar):	
Distribution system power factor at beginning of year (%):	
Distribution system power factor at end of year (%):	
<b>Line Loss Reduction Programs:</b>	
Peak load savings (kW):	
lifecycle	in year
Energy savings (kWh):	
<b>Distributed Generation and Load Displacement Programs:</b>	
Amount of DG installed (kW):	
Energy generated (kWh):	
Peak energy generated (kWh):	
Fuel type:	
<b>Other Programs (specify):</b>	
Metric (specify):	

D. <b>Actual Program Costs:</b>	Reporting Year	Cumulative Life to Date
Utility direct costs (\$):		
Incremental capital:		
Incremental O&M:	\$ 2,777.00	\$ 2,777.00
Incentive:	\$ 6,080.00	\$ 6,080.00
Total:	\$ 8,857.00	\$ 8,857.00
Utility indirect costs (\$):		
Incremental capital:		
Incremental O&M:		
Total:		

E. **Assumptions & Comments:**

<sup>1</sup> the number of units times the net present value per unit benefit specified in the TRC Guide.  
<sup>2</sup> customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. Name of the Program: Home Energy Assessment Rebate

Description of the program (including intent, design, delivery, partnerships and evaluation):

Intent: Promote conservation and home efficiency upgrades, education. Design: Rebate on current Kenora Hydro account for completion of Home Energy Inspection Assessment. Delivery: Contacted the two Natural resources approved inspectors for the area. Direct mailing to each of our customers, allowing for \$100 rebate for completed assessment. Partnerships: Local home Inspectors promoted the credit. Evaluation: Overwhelming response. Inspectors unable to meet demand. 60 inspections performed.

Measure(s):	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or units delivered life to date			

B. TRC Results:		Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):			
<sup>2</sup> TRC Costs (\$):			
	Utility program cost (excluding incentives):		
	Incremental Measure Costs (Equipment Costs)		
	Total TRC costs:		
<b>Net TRC (in year CDN \$):</b>			
Benefit to Cost Ratio (TRC Benefits/TRC Costs):			

C. Results: (one or more category may apply)		Cumulative Results:	
<b>Conservation Programs:</b>			
Demand savings (kW):	Summer		
	Winter		
	lifecycle	in year	
Energy saved (kWh):			
Other resources saved :			
	Natural Gas (m3):		
	Other (specify):		
<b>Demand Management Programs:</b>			
Controlled load (kW)			
Energy shifted On-peak to Mid-peak (kWh):			
Energy shifted On-peak to Off-peak (kWh):			
Energy shifted Mid-peak to Off-peak (kWh):			
<b>Demand Response Programs:</b>			
Dispatchable load (kW):			
Peak hours dispatched in year (hours):			
<b>Power Factor Correction Programs:</b>			
Amount of KVar installed (KVar):			
Distribution system power factor at beginning of year (%):			
Distribution system power factor at end of year (%):			
<b>Line Loss Reduction Programs:</b>			
Peak load savings (kW):			
	lifecycle	in year	
Energy savings (kWh):			
<b>Distributed Generation and Load Displacement Programs:</b>			
Amount of DG installed (kW):			
Energy generated (kWh):			
Peak energy generated (kWh):			
Fuel type:			
<b>Other Programs (specify):</b>			
Metric (specify):			

D. Actual Program Costs:		Reporting Year	Cumulative Life to Date
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:	\$ 2,489.00	\$ 2,489.00
	Incentive:	\$ 6,000.00	\$ 6,000.00
	Total:	\$ 8,489.00	\$ 8,489.00
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

E. Assumptions & Comments:

<sup>1</sup> the number of units times the net present value per unit benefit specified in the TRC Guide.  
<sup>2</sup> customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. Name of the Program: Christmas Light Exchange

Description of the program (including intent, design, delivery, partnerships and evaluation):

Intent: Trade inefficient lights for LED. Conservation. Design: Advertised to have customers produce bill and old string of lights for trade in on new LED set. delivery; Set up at local hardware store, traded strings. Partnerships; Local Home Hardware store made space available, assisted in advertising. Evaluation: Well received, 660 strings exchanged.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Old style bulb		
Efficient technology:	LED bulbs		
Number of participants or units delivered for reporting year:	660		
Measure life (years):	15		
Number of Participants or units delivered life to date	660		

B. TRC Results:	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):	\$ 9,446.00	9446
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ 8,903.00	8903
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	\$ 8,903.00	8903
Net TRC (in year CDN \$):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	\$ 1.06	1.06

C. Results: (one or more category may apply) Cumulative Results:

Conservation Programs:

Demand savings (kW):	Summer		
	Winter	5	5
	lifecycle		
Energy saved (kWh):	177345	11823	
Other resources saved:			
Natural Gas (m3):			
Other (specify):			

Demand Management Programs:

Controlled load (kW)		
Energy shifted On-peak to Mid-peak (kWh):		
Energy shifted On-peak to Off-peak (kWh):		
Energy shifted Mid-peak to Off-peak (kWh):		

Demand Response Programs:

Dispatchable load (kW):		
Peak hours dispatched in year (hours):		

Power Factor Correction Programs:

Amount of KVar installed (KVar):		
Distribution system power factor at beginning of year (%):		
Distribution system power factor at end of year (%):		

Line Loss Reduction Programs:

Peak load savings (kW):		
Energy savings (kWh):	lifecycle	in year

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):		
Energy generated (kWh):		
Peak energy generated (kWh):		
Fuel type:		

Other Programs (specify):

Metric (specify):		
-------------------	--	--

D. Actual Program Costs:	Reporting Year	Cumulative Life to Date
Utility direct costs (\$):		
Incremental capital:		
Incremental O&M:	\$ 586.00	\$ 586.00
Incentive:		
Total:	\$ 586.00	\$ 586.00
Utility indirect costs (\$):		
Incremental capital:		
Incremental O&M:		
Total:		

E. Assumptions & Comments:

<sup>1</sup> Benefits should be estimated if costs have been incurred and the technology has been deployed. Benefits reflect the present value of the measure for the number of units deployed in the year, for the number of units times the net present value per unit benefit specified in the TRC Guide.

<sup>2</sup> For non-utility programs, report only the TRC costs on a present value basis. Incentives (e.g., rebates) from the utility to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. Name of the Program: IPLC Rebates

Description of the program (including intent, design, delivery, partnerships and evaluation):

Intent: Conservation for business customers. Design: Rebate on Kenora Hydro account for installation of IPLC. Delivery: Direct mailing to large business customers, general media advertising for all business customers. Advertised on website. Partnerships: None. Evaluation: Participation level not as high as anticipated, those that took advantage did multiple installs. Technology not measured in TRC.

Measure(s):	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or units delivered life to date			

B. TRC Results:	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):		
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):		
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:		
Net TRC (in year CDN \$):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		

C. Results: (one or more category may apply)	Cumulative Results:
<b>Conservation Programs:</b>	
Demand savings (kW):	
Summer	
Winter	
lifecycle	in year
Energy saved (kWh):	
Other resources saved :	
Natural Gas (m3):	
Other (specify):	
<b>Demand Management Programs:</b>	
Controlled load (kW)	
Energy shifted On-peak to Mid-peak (kWh):	
Energy shifted On-peak to Off-peak (kWh):	
Energy shifted Mid-peak to Off-peak (kWh):	
<b>Demand Response Programs:</b>	
Dispatchable load (kW):	
Peak hours dispatched in year (hours):	
<b>Power Factor Correction Programs:</b>	
Amount of KVar installed (KVar):	
Distribution system power factor at beginning of year (%):	
Distribution system power factor at end of year (%):	
<b>Line Loss Reduction Programs:</b>	
Peak load savings (kW):	
lifecycle	in year
Energy savings (kWh):	
<b>Distributed Generation and Load Displacement Programs:</b>	
Amount of DG installed (kW):	
Energy generated (kWh):	
Peak energy generated (kWh):	
Fuel type:	
<b>Other Programs (specify):</b>	
Metric (specify):	

D. Actual Program Costs:	Reporting Year	Cumulative Life to Date
Utility direct costs (\$):		
Incremental capital:		
Incremental O&M:	\$ 26.00	\$ 26.00
Incentive:	\$ 2,700.00	\$ 2,700.00
Total:	\$ 2,726.00	\$ 2,726.00
Utility indirect costs (\$):		
Incremental capital:		
Incremental O&M:		
Total:		

E. Assumptions & Comments:

<sup>1</sup> the number of units times the net present value per unit benefit specified in the TRC Guide.  
<sup>2</sup> customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Load Control Seminar

**Description of the program (including intent, design, delivery, partnerships and evaluation):**

Intent: Educate large business customers on areas of conservation and load control potential. Design: Half day seminar for GS>50 customers. Business energy audits given to 4 attendees. Delivery: Direct mailing to over 50 kw customers. Demand Side Management firm presented and performed the audits. Partnerships: Firm with international load control experience gave seminar and performed the audits. Evaluation: excellent presentation and very detailed audit results with clear recommendations for load control and conservation.

Measure(s):	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or units delivered life to date			

B. <b>TRC Results:</b>	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):		
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):		
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:		
<hr/>		
Net TRC (in year CDN \$):		
<hr/>		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		

C. <b>Results:</b> (one or more category may apply)	Cumulative Results:	
<b>Conservation Programs:</b>		
Demand savings (kW):	Summer Winter lifecycle	
Energy saved (kWh):	in year	
Other resources saved :		
Natural Gas (m3):		
Other (specify):		
<b>Demand Management Programs:</b>		
Controlled load (kW)		
Energy shifted On-peak to Mid-peak (kWh):		
Energy shifted On-peak to Off-peak (kWh):		
Energy shifted Mid-peak to Off-peak (kWh):		
<b>Demand Response Programs:</b>		
Dispatchable load (kW):		
Peak hours dispatched in year (hours):		
<b>Power Factor Correction Programs:</b>		
Amount of KVar installed (KVar):		
Distribution system power factor at beginning of year (%):		
Distribution system power factor at end of year (%):		
<b>Line Loss Reduction Programs:</b>		
Peak load savings (kW):		
Energy savings (kWh):	lifecycle in year	
<b>Distributed Generation and Load Displacement Programs:</b>		
Amount of DG installed (kW):		
Energy generated (kWh):		
Peak energy generated (kWh):		
Fuel type:		
<b>Other Programs (specify):</b>		
Metric (specify):		

D. <b>Actual Program Costs:</b>	Reporting Year	Cumulative Life to Date
Utility direct costs (\$):		
Incremental capital:		
Incremental O&M:	\$ 5,520.00	\$ 5,520.00
Incentive:	\$ 22,500.00	\$ 22,500.00
Total:	\$ 28,020.00	\$ 28,020.00
Utility indirect costs (\$):		
Incremental capital:		
Incremental O&M:		
Total:		

E. **Assumptions & Comments:**

<sup>1</sup> the number of units times the net present value per unit benefit specified in the TRC Guide.  
<sup>2</sup> customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. Name of the Program: Hospital Tree of Lights

Description of the program (including intent, design, delivery, partnerships and evaluation):

Intent: Replace old inefficient bulbs on Tree of Life with LED bulbs. Conservation. Design: Traded 80 inefficient strings for LED strings. Delivery: Traded 80 strings for new LED strings. Partnerships: None. Evaluation: Very well received, positive TRC results.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Old style bulbs		
Efficient technology:	LED bulbs		
Number of participants or units delivered for reporting year:	80		
Measure life (years):	15		
Number of Participants or units delivered life to date	80		

B. TRC Results:	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):	\$ 1,145.00	1145
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ 1,010.00	1010
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:	\$ 1,010.00	1010
Net TRC (in year CDN \$):		
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	\$ 0.88	0.88

C. Results: (one or more category may apply) Cumulative Results:

Conservation Programs:

Demand savings (kW):	Summer		
	Winter	1	15
	lifecycle		
Energy saved (kWh):	21495	1433	
Other resources saved:			
Natural Gas (m3):			
Other (specify):			

Demand Management Programs:

Controlled load (kW)		
Energy shifted On-peak to Mid-peak (kWh):		
Energy shifted On-peak to Off-peak (kWh):		
Energy shifted Mid-peak to Off-peak (kWh):		

Demand Response Programs:

Dispatchable load (kW):		
Peak hours dispatched in year (hours):		

Power Factor Correction Programs:

Amount of KVar installed (KVar):		
Distribution system power factor at beginning of year (%):		
Distribution system power factor at end of year (%):		

Line Loss Reduction Programs:

Peak load savings (kW):		
Energy savings (kWh):	lifecycle	in year

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):		
Energy generated (kWh):		
Peak energy generated (kWh):		
Fuel type:		

Other Programs (specify):

Metric (specify):		
-------------------	--	--

D. Actual Program Costs:	Reporting Year	Cumulative Life to Date
Utility direct costs (\$):		
Incremental capital:		
Incremental O&M:		
Incentive:		
Total:		
Utility indirect costs (\$):		
Incremental capital:		
Incremental O&M:		
Total:		

E. Assumptions & Comments:

<sup>1</sup> number of units times the net present value per unit benefit specified in the TRC Guide.  
<sup>2</sup> not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Business Conservation Kits

**Description of the program (including intent, design, delivery, partnerships and evaluation):**

Intent: Make business owners more aware of conservation and offer products to promote conservation. Design: Random business names drawn, kits made with common energy conserving products. Mail out to winners. Delivery: Direct mailing to all business customers to make aware of products, direct mailing to winners to notify. Partnerships: Local Canadian Tire and Sears stores offered us discounts on products. Evaluation: Good awareness and conservation tool for winners.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	60W Incandescent		
Efficient technology:	15W Screw-in CFL		
Number of participants or units delivered for reporting year:	400 units		
Measure life (years):	10		
Number of Participants or units delivered life to date	400 units		

B. <b>TRC Results:</b>	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):	\$ 47,152.00	47,152.00
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ 13,018.00	13,018.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:		
<b>Net TRC (in year CDN \$):</b>	<b>\$ 34,134.00</b>	<b>34,134.00</b>
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	\$ 3.62	3.62

C. **Results:** (one or more category may apply) **Cumulative Results:**

**Conservation Programs:**

Demand savings (kW):	Summer	13	13
	Winter	13	13
	<i>lifecycle</i>		
Energy saved (kWh):		61,992	
Other resources saved :			
Natural Gas (m3):			
Other (specify):			

**Demand Management Programs:**

Controlled load (kW)		
Energy shifted On-peak to Mid-peak (kWh):		
Energy shifted On-peak to Off-peak (kWh):		
Energy shifted Mid-peak to Off-peak (kWh):		

**Demand Response Programs:**

Dispatchable load (kW):		
Peak hours dispatched in year (hours):		

**Power Factor Correction Programs:**

Amount of KVar installed (KVar):		
Distribution system power factor at beginning of year (%):		
Distribution system power factor at end of year (%):		

**Line Loss Reduction Programs:**

Peak load savings (kW):		
	<i>lifecycle</i>	<i>in year</i>
Energy savings (kWh):		

**Distributed Generation and Load Displacement Programs:**

Amount of DG installed (kW):		
Energy generated (kWh):		
Peak energy generated (kWh):		
Fuel type:		

**Other Programs (specify):**

Metric (specify):		
-------------------	--	--

D. **Actual Program Costs:** **Reporting Year**      **Cumulative Life to Date**

Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:		
	Incentive:		
	Total:		
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

E. **Assumptions & Comments:**

CFLs only measurable item in kit (2 bulbs per kit). Power bar and small plug in timers not on TRC schedules.

<sup>1</sup> number of units times the net present value per unit benefit specified in the TRC Guide.  
<sup>2</sup> not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Kill-A-Watt meters

**Description of the program (including intent, design, delivery, partnerships and evaluation):**

Intent: Customer awareness and conservation. Design: Meters purchased, available at City Hall. Delivery: Meter available at City Hall, good tool for CSR's to help customers with high energy consumption complaints. Partnerships: City Hall signs out meters to customers. Evaluation: Excellent customer awareness tool.

**Measure(s):**

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or units delivered life to date			

**B. TRC Results:**

	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):		
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):		
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:		
Net TRC (in year CDN \$):		0.00
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	\$ -	

**C. Results:** (one or more category may apply) **Cumulative Results:**

**Conservation Programs:**

	Summer	Winter	
Demand savings (kW):			
Energy saved (kWh):			
Other resources saved :			
Natural Gas (m3):			
Other (specify):			

**Demand Management Programs:**

Controlled load (kW)		
Energy shifted On-peak to Mid-peak (kWh):		
Energy shifted On-peak to Off-peak (kWh):		
Energy shifted Mid-peak to Off-peak (kWh):		

**Demand Response Programs:**

Dispatchable load (kW):		
Peak hours dispatched in year (hours):		

**Power Factor Correction Programs:**

Amount of KVar installed (KVar):		
Distribution system power factor at beginning of year (%):		
Distribution system power factor at end of year (%):		

**Line Loss Reduction Programs:**

	lifecycle	in year	
Peak load savings (kW):			
Energy savings (kWh):			

**Distributed Generation and Load Displacement Programs:**

Amount of DG installed (kW):		
Energy generated (kWh):		
Peak energy generated (kWh):		
Fuel type:		

**Other Programs (specify):**

Metric (specify):		
-------------------	--	--

**D. Actual Program Costs:**

		Reporting Year	Cumulative Life to Date
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:	\$ 491.89	\$ 491.89
	Incentive:		
	Total:	\$ 491.89	\$ 491.89
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Total:		

**E. Assumptions & Comments:**

<sup>1</sup> i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.  
<sup>2</sup> customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:** Chamber of Commerce Bulb Giveaway

**Description of the program (including intent, design, delivery, partnerships and evaluation):**

Intent: Promote conservation to business customers. Design: 30 CFL's given to Chamber of Commerce for table centerpieces.  
 Delivery: Bulbs on tables, Kenora Hydro given credit for supply. Partnerships: Local Chamber of Commerce. Evaluation: Very well received, good topic of conversation at tables.

Measure(s):	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	60W Incandescent		
Efficient technology:	15W Screw-in CFL		
Number of participants or units delivered for reporting year:	30 units		
Measure life (years):	10		
Number of Participants or units delivered life to date	30 units		

B. <b>TRC Results:</b>	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):	\$ 3,536.00	3,536.00
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):	\$ 159.00	159.00
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:		
<b>Net TRC (in year CDN \$):</b>	<b>3,377.00</b>	<b>3,377.00</b>
<b>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</b>	<b>\$ 22.00</b>	<b>22</b>

C. <b>Results:</b> (one or more category may apply)	<b>Cumulative Results:</b>	
<b>Conservation Programs:</b>		
Demand savings (kW):	Summer 1 Winter 1 lifecycle	1 1 in year
Energy saved (kWh):	46,490	4,649
Other resources saved:		
Natural Gas (m3):		
Other (specify):		
<b>Demand Management Programs:</b>		
Controlled load (kW):		
Energy shifted On-peak to Mid-peak (kWh):		
Energy shifted On-peak to Off-peak (kWh):		
Energy shifted Mid-peak to Off-peak (kWh):		
<b>Demand Response Programs:</b>		
Dispatchable load (kW):		
Peak hours dispatched in year (hours):		
<b>Power Factor Correction Programs:</b>		
Amount of KVar installed (KVar):		
Distribution system power factor at beginning of year (%):		
Distribution system power factor at end of year (%):		
<b>Line Loss Reduction Programs:</b>		
Peak load savings (kW):		
Energy savings (kWh):	lifecycle	in year
<b>Distributed Generation and Load Displacement Programs:</b>		
Amount of DG installed (kW):		
Energy generated (kWh):		
Peak energy generated (kWh):		
Fuel type:		
<b>Other Programs (specify):</b>		
Metric (specify):		

D. <b>Actual Program Costs:</b>	Reporting Year	Cumulative Life to Date
Utility direct costs (\$):		
Incremental capital:		
Incremental O&M:		
Incentive:		
Total:		
Utility indirect costs (\$):		
Incremental capital:		
Incremental O&M:		
Total:		

E. **Assumptions & Comments:**

<sup>1</sup> i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.

<sup>2</sup> customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC

# Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. Name of the Program: Commercial Rebate Offer

Description of the program (including intent, design, delivery, partnerships and evaluation):

Intent: Offer incentive to business customers to purchase conservation products. Design: Rebates on Kenora Hydro account offered on variety of energy efficient products for commercial use, including thermostats, exit sign retrofits. Delivery: Website and local media advertisements. Partnerships: None. Evaluation: Very few commercial customers took advantage of the rebates offered.

Measure(s):	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered for reporting year:			
Measure life (years):			
Number of Participants or units delivered life to date			

B. TRC Results:	Reporting Year	TRC Results:
<sup>1</sup> TRC Benefits (\$):		
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):		
Incremental Measure Costs (Equipment Costs)		
Total TRC costs:		
Net TRC (in year CDN \$):	0.00	0.00

Benefit to Cost Ratio (TRC Benefits/TRC Costs):

C. Results: (one or more category may apply) Cumulative Results:

Conservation Programs:		Summer	Winter	
Demand savings (kW):				
Energy saved (kWh):				
Other resources saved:				
Natural Gas (m3):				
Other (specify):				

Demand Management Programs:			
Controlled load (kW)			
Energy shifted On-peak to Mid-peak (kWh):			
Energy shifted On-peak to Off-peak (kWh):			
Energy shifted Mid-peak to Off-peak (kWh):			

Demand Response Programs:			
Dispatchable load (kW):			
Peak hours dispatched in year (hours):			

Power Factor Correction Programs:			
Amount of KVar installed (KVar):			
Distribution system power factor at beginning of year (%):			
Distribution system power factor at end of year (%):			

Line Loss Reduction Programs:			
Peak load savings (kW):			
Energy savings (kWh):			

Distributed Generation and Load Displacement Programs:			
Amount of DG installed (kW):			
Energy generated (kWh):			
Peak energy generated (kWh):			
Fuel type:			

Other Programs (specify):			
Metric (specify):			

D. Actual Program Costs:	Reporting Year	Cumulative Life to Date
Utility direct costs (\$):		
Incremental capital:		
Incremental O&M:		
Incentive:		
Total:		
Utility indirect costs (\$):		
Incremental capital:		
Incremental O&M:	\$1,174.00	\$ 1,174.00
Total:	\$1,174.00	\$ 1,174.00

E. Assumptions & Comments:

<sup>1</sup> i.e. the number of units times the net present value per unit benefit specified in the TRC Guide.  
<sup>2</sup> customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC

# Appendix C - Program and Portfolio Totals

Report Year: 2008

## 1. Residential Programs

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Home Show Booth			\$ -	0.00				\$ 383
Pancake Breakfast	\$ 5,849	\$ 1,068	\$ 4,781	5.48	7,757	116,355	1	\$ 17,504
Energy Star Appliance Rebate			\$ -	0.00				\$ 8,858
Home Energy Assessment Rebate			\$ -	0.00				\$ 8,490
Christmas Light Exchange	\$ 9,447	\$ 8,903	\$ 544	1.06	11,823	177,345	5	\$ 9,490
Kill-A-Watt Meters			\$ -	0.00				\$ 492
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
<b>*Totals App. B - Residential</b>	<b>\$ 15,296</b>	<b>\$ 9,971</b>	<b>\$ 5,325</b>	<b>1.53</b>	<b>19,580</b>	<b>293,700</b>	<b>6</b>	<b>\$ 49,017</b>
Residential Indirect Costs not attributable to any specific program	→	\$ 3,800						
<b>Total Residential TRC Costs</b>		<b>\$ 13,771</b>						
<b>**Totals TRC - Residential</b>	<b>\$ 15,296</b>	<b>\$ 13,771</b>	<b>\$ 1,525</b>	<b>1.11</b>				

## 2. Commercial Programs

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
IPLC Rebates			\$ -	0.00				\$ 2,726
Load Control Seminar			\$ -	0.00				\$ 28,020
Hospital Tree of Lights	\$ 1,145	\$ 1,010	\$ 135	1.13	1,143	17,145	1	\$ 1,010
Business Conservation Kits	\$ 47,152	\$ 13,018	\$ 34,134	3.62	61,992	619,920	13	\$ 13,018
Chamber Dinner Bulbs	\$ 3,536	\$ 159	\$ 3,378	22.28	4,649	46,490	1	\$ 159
Commercial Rebate Program			\$ -	0.00				\$ 1,174
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
<b>*Totals App. B - Commercial</b>	<b>\$ 51,834</b>	<b>\$ 14,187</b>	<b>\$ 37,646</b>	<b>3.65</b>	<b>67,784</b>	<b>683,555</b>	<b>15</b>	<b>\$ 46,107</b>
Commercial Indirect Costs not attributable to any specific program	→							
<b>Total Commercial TRC Costs</b>		<b>\$ 14,187</b>						
<b>**Totals TRC - Commercial</b>	<b>\$ 51,834</b>	<b>\$ 14,187</b>	<b>\$ 37,646</b>	<b>3.65</b>				

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
	→							
		\$ -						
	\$ -	\$ -	\$ -	0.00				

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program F			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
		\$ -						
	\$ -	\$ -	\$ -	0.00				

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program F			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
		\$ -						
	\$ -	\$ -	\$ -	0.00				

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program F			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program C			\$ -	0.00				
	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
		\$ -						
	\$ -	\$ -	\$ -	0.00				

## 7. Smart Meters Program

Only spending information that was authorized under the 3rd tranche of MARR is required to be reported for Smart Meters.

Report Year Gross C&DM Expenditures (\$) 

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program F			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
		\$ -						
	\$ -	\$ -	\$ -	0.00				

List each Appendix B in the cells below; Insert additional rows as required.

Note: To ensure the integrity of the formulas, please insert the additional rows in the middle of the list below.

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
		\$ -						
	\$ -	\$ -	\$ -	0.00				

### LDC's CDM PORTFOLIO TOTALS

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
*TOTALS FOR ALL APPENDIX B	\$ 67,129	\$ 27,958	\$ 39,171	2.40	\$ 87,364	\$ 977,255	\$ 21	\$ 95,124
Any <u>other</u> Indirect Costs not attributable to any specific program								
TOTAL ALL LDC COSTS		\$ 27,958						
**LDC' PORTFOLIO TRC	\$ 67,129	\$ 27,958	\$ 39,171	2.40				

\* The savings and spending information from this row is to be carried forward to Appendix A.

\*\* The TRC information from this row is to be carried forward to Appendix A.

## **Appendix D - Total Life Evaluation of the CDM Plan**

Table is to be completed manually by totaling the information from each year of activity

	<sup>5</sup> Cumulative Totals Life-to-date	Residential	<sup>6</sup> Low Income	Commercial	Institutional	Industrial	Agricultural	DC System	<sup>4</sup> Smart Meters	Other #1	Other #2
Net TRC value (\$):	\$ 89,192.00	\$ 25,926.00	\$	\$ 63,266.00	\$	\$	\$	\$		\$	\$
Benefit to cost ratio:	8.73	14.30		5.64							
Number of participants or units delivered:	1,351	840		511							
Lifecycle (kWh) Savings:	2,350,497	611,054		1,739,443							
Total kWh saved (kWh):	302,583	133,610		168,973							
Total peak demand saved (kW):	84	57		27							
Total kWh saved as a percentage of total kWh delivered (%):	0.09%	0.04%		0.05%							
Peak kW saved as a percentage of LDC peak kW load (%):	0.14%	0.09%		0.05%							
<sup>1</sup> Gross C&DM expenditures (\$):	\$ 141,455.00	\$ 53,501.00	\$	\$ 87,954.00	\$	\$	\$	\$	\$	\$	\$
<sup>2</sup> Expenditures per kWh saved (\$/kWh):	\$ 0.47	\$ 0.40	\$	\$ 0.52	\$	\$	\$	\$		\$	\$
<sup>3</sup> Expenditures per kW saved (\$/kW):	\$ 1,683.99	\$ 938.61	\$	\$ 3,257.56	\$	\$	\$	\$		\$	\$
Utility discount rate (%):	7.75										

<sup>1</sup> Expenditures are reported on cumulative basis.

<sup>2</sup> Expenditures include all utility program costs (direct and indirect) for all programs which primarily generate energy savings.

<sup>3</sup> Expenditures include all utility program costs (direct and indirect) for all programs which primarily generate capacity savings.

<sup>4</sup> Please report spending related to 3rd tranche of MARR funding only. TRC calculations are not required for Smart Meters. Actual expenditures for the total third tranche period need to be reported.

<sup>5</sup> Includes total for the reporting year, plus prior years, if any (for example, 2008 CDM Annual report for third tranche will include 2007, 2006, 2005 and 2004 numbers, if any).

<sup>6</sup> Includes totals from Low Income programs that fall under both commercial and residential.