

Total Life Evaluation of the Third Tranche CDM Plan

Submitted By:

Welland Hydro-Electric System Corp.

RP- 2004-0203/EB- 2004-0523

March 31, 2009



Welland Hydro-Electric System Corp.
Total Life Evaluation – Third Tranche CDM Expenditures
March 2009

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Board Secretary at Ontario Energy Board
P.O. Box 2319
2300 Yonge Street
Suite 2700
Toronto, ON
M4P 1E4

Total Life Evaluation of the Third Tranche CDM Plan
RP-2004-0203 / EB 2004-0523

Dear sir:

Welland Hydro-Electric System Corp. completed its Third Tranche CDM program expenditures in 2007, and we are pleased to report that some 2.86 million kWh of energy was saved, while peak load was reduced by more than 232 kW, as a result of diverse and successful CDM initiatives between 2005 and 2007. During this period all CDM Third Tranche funding was expended, with no CDM activities carried over into 2008.

The details of specific program results over this period are reported in accompanying **Appendix D - Total Life Evaluation of the CDM Plan**, including cumulative lifetime savings of 25.83 million kWh of energy, returning a Total Resource Net Benefit of more than \$450,000. The costs of annual reporting for Third Tranche expenditures have also been included in Appendix D and are incremental to total expenditures reported previously. These are annotated in Appendix D. Overall, the results speak unequivocally that Welland Hydro-Electric System Corp's CDM efforts have been a good investment during the years of the Third Tranche expenditures. The highlights of Third Tranche activities are worthy of noting here.

In each year of the Third Tranche programming, Welland Hydro-Electric System Corp. participated in bringing the Conserver Joe family to schools and the internet, raising awareness of the conservation imperative, and stimulating thinking and action around the many ways that consumers of all ages can change their use of essential energy resources for the better. Feedback from the schools and citizens were highly supportive of the program.

Of note in 2006 and 2007 was a successful LED traffic and streetlight program, which demonstrated a robust technology that will not only save almost 2 million kWh of energy over its lifecycle, but also represents lower maintenance cost over the long term. The LED street light program, in particular, brought accolades for the City of Welland from Ontario's Chief



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Conservation Officer as the first city in Canada to introduce such lighting to an entire street. On its own, the LED street lighting will save more than 400,000 kWh of energy over its lifecycle. The LED traffic lights will return a Total Resource net benefit of more than \$87,000.

Welland Hydro-Electric System Corp. also looked closely at the energy efficiency of its distribution system and its ability to serve customers better in the years ahead by investing CDM expenditures in a voltage conversion project in 2006 and 2007. A significant improvement to distribution system losses was realized through a voltage conversion from 4kV to 27.7 kV on Niagara Street, an important commercial artery.

Overall, CDM programming in the Residential sector returned the best results for Third Tranche activities and expenditures with lifetime savings of more than 13 million kWh and the largest net TRC return of all CDM programs, almost \$590,000.

Much learning came out of the Third Tranche activities for Welland Hydro-Electric System Corp., and indeed for our partners in the Niagara Erie Power Alliance (NEPA). Among the most valuable lessons was that cooperation on programming and volume or joint purchases provided greater reach and efficiencies for CDM programs. Volume purchasing helped reduce the costs of LED technology for Welland Hydro-Electric System Corp., and holds even greater potential if multiple LDCs and municipalities jointly purchase the technologies. The joint effort on the Conserver Joe website greatly extended its reach and impact.

Knowledge was gained about advertising and promotion where it proved LDCs can help shape behaviour with regard to energy use among adults. However, the longer term value are programs and communications aimed at children that have the greatest impact on adult energy use. The energy audit kits distributed to Welland Grade 5 students, helped inform and motivate young consumers who brought the lesson home with them, creating opportunity for discussion of home energy practices, and a shift in behaviour by each family member.

As knowledge is gained, it must also be effectively transferred to users. This approach, while effective as outlined for children and families, can also benefit business customers who are aware of the advantages of energy conservation, but are not able to understand how it can be fully leveraged within their enterprise. Key is to help them embed CDM as a priority in investment decisions, including the use of TRC evaluative tools and rigour.

Finally, the enduring value of the Third Tranche CDM experience for the Welland Hydro-Electric System Corp., their customers, and the community, lies in what was proven in the



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course of three years: that an LDC can successful innovate and implement CDM programming that makes a difference. Equally important, the experience has embedded a readiness within our LDC and across all segments of our customer base for future CDM success.

I am available at your convenience to discuss any aspect of this submission.

Regards,

NEPA Member
Perry Orosz
Director of Customer Service
Welland Hydro-Electric System Corp.

Appendix D - Total Life Evaluation of the CDM Plan

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

	⁵ Cumulative Totals Life-to-date	Residential	Commercial	Niagara St. Voltage	LDC System	⁴ Smart Meters	CDM Annual Reports	LED Traffic Light	LED Street Light
Net TRC value (\$):	\$ 451,836.61	\$ 589,490.63	\$	-\$ 142,858.93	-\$ 66,200.00			\$ 87,592.21	-\$ 8,187.29
Benefit to cost ratio:	1.66	6.96		0.61	0.56			3.72	0.65
Number of participants or units delivered:	59,515	37,052	50	-	22,354			12	47
Lifecycle (kWh) Savings:	25,829,766.63	13,215,789.86		7,650,419.00	2,647,625.00			1,913,604.48	402,328.29
Total kWh saved (kWh):	2,856,860.62	2,252,224.17		156,131.00	105,905.00			318,934.08	23,666.37
Total peak demand saved (kW):	232.11	147.15		29.00	15.00			36.41	4.55
Total kWh saved as a percentage of total kWh delivered (%):	1.77%	0.91%	0.00%	0.52%	0.18%	0.00%	0.00%	0.13%	0.03%
Peak kW saved as a percentage of LDC peak kW load (%):	0.22%	0.14%	0.00%	0.03%	0.01%	0.00%	0.00%	0.04%	0.00%
¹ Gross C&DM expenditures (\$):	\$ 713,072.84	\$ 77,839.00	\$ 17,984.82	\$ 363,502.17	\$ 153,919.00	\$ 30,827.95	\$ 29,000.00	\$ 16,613.90	\$ 23,386.00
² Expenditures per kWh saved (\$/kWh):	\$ 0.03	\$ 0.01	\$ -	\$ 0.05	\$ 0.06	\$ -	\$ -	\$ 0.01	\$ 0.06
³ Expenditures per kW saved (\$/kW):	\$ 3,072.17	\$ 528.98	\$ -	\$ 12,534.56	\$ 10,261.27	\$ -	\$ -	\$ 456.33	\$ 5,139.78
Utility discount rate (%):	7.625	Total kWh delivered:	1,457,844,348						
		Peak kW load:	103,642						

¹ Expenditures are reported on cumulative basis and have been adjusted to reflect costs not previously included in annual reports.

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

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

⁴ 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.

⁵ Includes total for years prior to 2008. There was no third tranche program activity in 2008.

⁶ Includes totals from Low Income programs that fall under both commercial and residential.

Appendix C - Program and Portfolio Totals

Report Year: 2005

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 (\$)
Co-Branding-Lighten Your Electricity	\$ 114,758	\$ 18,958	\$ 95,800	6.05				
			\$ -	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				
*Totals App. B - Residential	\$ 114,758	\$ 18,958	\$ 95,800	6.05	0	0	0	\$ -
Residential Indirect Costs not attributable to any specific program	→							
Total Residential TRC Costs		\$ 18,958						
**Totals TRC - Residential	\$ 114,758	\$ 18,958	\$ 95,800	6.05				

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 (\$)
Breakfast / Audit Program	\$ -	\$ -	\$ -	0.00	0	0	0	
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				
*Totals App. B - Commercial	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -

Commercial Indirect Costs not attributable to any specific program



Total Commercial TRC Costs		\$	-			
**Totals TRC - Commercial	\$	-	\$	-	\$	0.00

3. Institutional 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 (\$)
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				
*Totals App. B - Institutional	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -

Institutional Indirect Costs not attributable to any specific program



Total Institutional TRC Costs		\$	-			
**Totals TRC - Institutional	\$	-	\$	-	\$	0.00

4. Industrial 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 (\$)
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				
*Totals App. B - Industrial	\$	-	\$	-	0.00	0	0	0	\$ -
Industrial Indirect Costs not attributable to any specific program	→								
Total Industrial TRC Costs		\$	-						
**Totals TRC - Industrial	\$	-	\$	-	0.00				

5. Agricultural 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 (\$)
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				
*Totals App. B - Agricultural	\$	-	\$	-	0	0	0	\$ -
Agricultural Indirect Costs not attributable to any specific program	→							
Total Agricultural TRC Costs		\$	-					
**Totals TRC - Agricultural	\$	-	\$	-	0.00			

6. LDC System 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 (\$)
Voltage Conversion 4KV to 27.6KV	\$ 85,667	\$ 151,867	-\$ 66,200	0.56	105,905	2,647,625		
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				
*Totals App. B - LDC System	\$ 85,667	\$ 151,867	-\$ 66,200		0.56	105,905	2,647,625	0	\$ 2,052
<i>LDC System Indirect Costs not attributable to any specific program</i>	→	2,052							
Total LDC System TRC Costs		\$ 153,919							
**Totals TRC - LDC System	\$ 85,667	\$ 153,919	-\$ 68,252		0.56				

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 (\$) → \$ 12,748.84

8. LED Traffic Light 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 (\$)
LED Traffic Lights			\$ -	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				
*Totals App. B - LED Traffic Light	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>LED Traffic Light Indirect Costs not attributable to any specific program</i>	→							
Total LED Traffic Light TRC Costs		\$ -						
**Totals TRC - LED Traffic Light	\$ -	\$ -	\$ -	0.00				


9. Other #2 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 (\$)
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				
*Totals App. B - Other #2	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Other #2 Indirect Costs not attributable to any specific program</i>								
Total Other #2 TRC Costs		\$ -						
**Totals TRC - Other #2	\$ -	\$ -	\$ -	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	\$ 200,425	\$ 172,877	\$ 27,548	1.16	\$ 105,905	\$ 2,647,625	\$ -	\$ 14,801
<i>Any other Indirect Costs not attributable to any specific program</i>								
TOTAL ALL LDC COSTS		\$ 172,877						
**LDC' PORTFOLIO TRC	\$ 200,425	\$ 172,877	\$ 27,548	1.16				

* 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 A - Evaluation of the CDM Plan

Highlighted boxes are to be completed manually, white boxes are linked to Appendix C and will be brought forward automatically.

	Total for 2008	Residential	5 Low Income	Commercial	Institutional	Industrial	Agricultural	LDC System	4 Smart Meters	LED Traffic Light	Other #2
<i>Net TRC value (\$):</i>	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
<i>Benefit to cost ratio:</i>	0.00	0.00		0.00	0.00	0.00	0.00	0.00		0.00	0.00
<i>Number of participants or units delivered:</i>	0			0						0	
<i>Lifecycle (kWh) Savings:</i>	0	0		0	0	0	0	0		0	0
<i>Report Year Total kWh saved (kWh):</i>	0	0		0	0	0	0	0		0	0
<i>Total peak demand saved (kW):</i>	0	0		0	0	0	0	0		0	0
<i>Total kWh saved as a percentage of total kWh delivered (%):</i>	0.00%	0.00%								0.00%	
<i>Peak kW saved as a percentage of LDC peak kW load (%):</i>	0.00%	0.00%								0.00%	
<i>1 Report Year Gross C&DM expenditures (\$):</i>	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>2 Expenditures per kWh saved (\$/kWh):</i>	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
<i>3 Expenditures per kW saved (\$/kW):</i>	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -

<i>Utility discount rate (%):</i>	7.625	Total kWh delivered:	0
		Peak kW load:	0

¹ Expenditures are reported on accrual basis.

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

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

⁴ Please report spending related to 3rd tranche of MARR funding only. TRC calculations are not required for Smart Meters. Only actual expenditures for the year need to be reported.

Appendix B - Discussion of the Program

(complete this Appendix for each program)

A. **Name of the Program:**

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

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			

	Reporting Year	TRC Results:
B. TRC Results:		
¹ TRC Benefits (\$):		
² 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):		

	Cumulative Results:	
C. Results: (one or more category may apply)		
Conservation Programs:		
Demand savings (kW):	Summer	
	Winter	
	lifecycle	in year
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):			
	<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):		
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<u>Actual Program Costs:</u>		<u>Reporting Year</u>	<u>Cumulative Life to Date</u>
Utility direct costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&M:</i>		
	<i>Incentive:</i>		
	<i>Total:</i>		
Utility indirect costs (\$):	<i>Incremental capital:</i>		
	<i>Incremental O&M:</i>		
	<i>Total:</i>		

E. Assumptions & Comments:

¹ 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.

² 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 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 (\$)
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				
*Totals App. B - Residential	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Residential Indirect Costs not attributable to any specific program</i>	→							
Total Residential TRC Costs		\$ -						
**Totals TRC - Residential	\$ -	\$ -	\$ -	0.00				

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 (\$)
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				
*Totals App. B - Commercial	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -

Commercial Indirect Costs not attributable to any specific program



Total Commercial TRC Costs		\$	-		
**Totals TRC - Commercial	\$	-	\$	-	\$ 0.00

3. Institutional 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 (\$)
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				
*Totals App. B - Institutional	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -

Institutional Indirect Costs not attributable to any specific program



Total Institutional TRC Costs		\$	-		
**Totals TRC - Institutional	\$	-	\$	-	\$ 0.00

4. Industrial 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 (\$)
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				
*Totals App. B - Industrial	\$	-	\$	-	0.00	0	0	0	\$ -
Industrial Indirect Costs not attributable to any specific program	→								
Total Industrial TRC Costs		\$		-					
**Totals TRC - Industrial	\$	-	\$	-	0.00				

5. Agricultural 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 (\$)
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				
*Totals App. B - Agricultural	\$	-	\$	-	0	0	0	\$ -
Agricultural Indirect Costs not attributable to any specific program	→							
Total Agricultural TRC Costs		\$		-				
**Totals TRC - Agricultural	\$	-	\$	-	0.00			

6. LDC System 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 (\$)
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				
*Totals App. B - LDC System	\$	-	\$	-	0.00	0	0	0	\$ -
LDC System Indirect Costs not attributable to any specific program	→								
Total LDC System TRC Costs		\$	-						
**Totals TRC - LDC System	\$	-	\$	-	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 (\$) →

8. LED Traffic Light 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 (\$)
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			
*Totals App. B - LED Traffic Light	\$	-	\$	-	0.00	0	0	\$ -
LED Traffic Light Indirect Costs not attributable to any specific program	→							
Total LED Traffic Light TRC Costs		\$	-					
**Totals TRC - LED Traffic Light	\$	-	\$	-	0.00			

9. Other #2 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 (\$)
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				
*Totals App. B - Other #2	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Other #2 Indirect Costs not attributable to any specific program</i>								
Total Other #2 TRC Costs		\$ -						
**Totals TRC - Other #2	\$ -	\$ -	\$ -	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	\$ -	\$ -	\$ -	0.00	\$ -	\$ -	\$ -	
<i>Any other Indirect Costs not attributable to any specific program</i>								
TOTAL ALL LDC COSTS		\$ -						
**LDC' PORTFOLIO TRC	\$ -	\$ -	\$ -	0.00				

* 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.