

P.O. Box 2140 855 Confederation Street Sarnia, Ontario N7T 7L6 Tel: (519) 337-8201 Fax: (519) 344-6094

April 2, 2007

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

Re: 2006 CDM Third Tranche Funding Annual Report

Dear Ms. Walli:

Please find attached the 2006 annual report for CDM Third Tranche Funding.

Should you have any questions, please feel free to contact myself at the number below.

Regards,

David Mackay Conservation and Demand Side Management Coordinator Bluewater Power Distribution Corporation Email: <u>dmackay@bluewaterpower.com</u> Phone: 519-337-8201 Ext. 221

Introduction:

Over the past year Bluewater Power Distribution Corporation has continued to participate in the delivery of Conservation and Demand Side Management initiatives in order to improve energy efficiencies and assist customers in their efforts to curtail energy consumption.

With the primary focus on heightening customer awareness, this past year Bluewater Power has delivered print media and radio advertising campaigns locally, as well as engaging customers face to face at community events. These events were targeted at a cross section of Bluewater Power rate classifications; residential, small commercial and large General Service customers. Bluewater Power has maintained the partnership with the local area school boards to deliver a conservation program for Grades 5 & 6 classrooms. A web based energy toolbox; the Energy Services e-resource was launched officially on April 5th, 2006.

Bluewater Power continued to work in the area of distributed generation and currently sits on the Alternative Energy Technology program advisory committee at Lambton College. We continue to work with the Canadian Centre for Pollution Prevention located in Sarnia and the Celebration of Lights as these organizations look for additional funding opportunities in the area of energy conservation. Energy assessments for commercial customers are ongoing and the Smart Metering pilot wrapped up in November 2006.

This summary will outline an overall evaluation of Bluewater Power's CDM plan with attached appendices where applicable. Other initiatives that focused on activities related to training, public outreach and consumer education will provide market support assessment criteria as provided in the Total Resource Cost Guide.

Evaluation of the CDM Plan:

Please see the attached Appendix A – Evaluation of the CDM Plan

Discussion of the Programs:

a) Power Smart Team

The Power Smart Team was established to heighten employee awareness with an internal working group. A number of energy conservation goals were established;

- A benchmark survey was completed by employees
- A signage campaign reminding employees to Turn off Lights
- The reduction of building air conditioning during "Smog Days"
- Building Load Inventory was compiled
- Implementation of Corporate Policy regarding "plug-in" load.

• Completion of energy efficient lighting retrofit in service garage.

All of these goals were met and documented within the 2005 Conservation and Demand Annual Report.

Bluewater Power spent \$2,218 in 2006, and \$45,161 in total on the Power Smart Team program and the initiative is now considered finalized.

b) Distributed Generation

The program initially focused on the deployment of a micro-generation project as a means of highlighting a selected technology and improving public awareness. No viable micro-generation projects could be identified after working with Lambton College and the Sarnia-Lambton Economic Partnership. It was determined that the best alternative was the completion of a comprehensive review and feasibility studies for Landfill Gas Generation, with the results to be shared with Lambton College as part of its Alternative Energy Engineering Technology program. Those efforts are completed.

Lambton College established an Alternative Energy Engineering Technology program in September of 2005 and Bluewater Power has representation on the advisory committee for that program. It is our intention that the comprehensive review and feasibility studies will become an integral part of the curriculum for that program.

In addition, it appears that a Landfill Gas Generation project will be developed within our distribution territory. We will negotiate the inclusion of an educational component to those facilities, although only in-kind contributions will be made from Bluewater Power to make that facility a reality; no futher funds from third tranche CDM will be spent on those efforts.

Bluewater Power spent \$39,820 in 2006 and a total of \$109,038 on the Distributed Generation program and the initiative is now considered finalized.

c) Community Outreach

Bluewater Power participated in a number of initiatives designed to engage our customers in energy efficiency education. Local radio campaigns have provided energy saving tips to customers and we also advertised in local newspapers with similar messages. Bluewater Power participated in Woodstock's Blackout challenge with favourable press coverage from local media.

Customers were also engaged during an evening information session held for residents of the Sandpiper; a St Paul's Outreach Foundation apartment building. Similarly a "coffee break" session was held for the residents of Pineview Apartments.

Bluewater Power has continued to promote the "Energize Your Minds" power saver program designed for Grades 5 and 6 school children. This year Bluewater Power has delivered the conservation message to an additional 355 students.

Bluewater Power has spent \$11,807 in 2006 and a total of \$53,438 on Community Outreach and is considered finalized.

d) Web Based Energy Toolbox

Bluewater Power officially launched on April 5th 2006 a web based energy conservation toolbox; the Energy Services E-Resource centre for both residential and commercial customers. The web site features energy conservation tips, an energy calculator which will enable visitors to predict the energy usage in their homes and business, energy management news and a learning center for children.

The website has registered 28,867 visitors to the E-Resource centre.

Bluewater Power has spent \$103 in 2006 and a total of \$28,314 on the Web Based Energy Toolbox program and is considered finalized.

e) Seasonal LED Lights

Bluewater Power partnered with the Sarnia Celebration of Lights annual Christmas light display at Centennial Park. It is ranked as one of Ontario's top winter lights festivals. Bluewater Power retrofitted one of the displays with LED lights and sponsored a new energy efficiency lighting category for residential customers which we sponsored again in 2006.

All Bluewater Power shareholder municipalities were offered an incentive to purchase Seasonal LED with 100% uptake.

Bluewater Power spent \$15,416 in 2006 and a total of \$19,647 on the Seasonal LED Light program and is considered finalized.

f) Traffic/Streetlighting

Two LED streetlights were purchased and installed for test purposes in the Village of Point Edward and the Village of Oil Springs.

Bluewater Power has spent \$10,109 in 2006 and a total of \$16,701 and the program is considered finalized.

g) Fridge/Air Conditioner Exchange

This program has remained dormant. Acting on the advice of utilities and NGO's Bluewater Power has decided to await the outcomes of other LDCs refrigerator and air conditioner exchange programs before proceeding with this initiative. The Ontario Power Authority's Appliance Retirement program is under consideration for the summer of 2007.

To date Bluewater Power has spent zero dollars on the Fridge/Air Conditioner Exchange Program.

h) Business Products

Bluewater Power continues to engage our commercial customers with informational outreach sessions.

A "Town Hall" style meeting was held with Steeves and Rozema, a large local property management and development company with corporate office, multi-residential, senior citizen and long term care facilities.

Bluewater Power was called upon to facilitate a workshop in Sarnia on behalf of the Association of Major Power Consumers of Ontario. A half day round table discussion took place regarding the barriers that large users face with respect to CDM. Presenters included Natural Resources Canada and the Ontario Power Authority.

Bluewater Power spent \$0 in 2006 and a total of \$49,873 on Business products and the program is now considered finalized.

i) Low Income Consumers

We have partnered with the Inn of the Good Shepherd (the "Inn") on the development of educational programs for low income energy users. The Inn is the leading social services organization supporting the financially vulnerable in Sarnia-Lambton.

Again in 2006 Energy Star appliances were purchased as part of Bluewater Power's educational campaigns. The appliances were also displayed at the Lambton Mall in a storefront environment that provided Bluewater Power an opportunity to showcase Energy Star appliances with heavy walk up traffic. Those appliances were sold as part of the "Inn to Win" lottery as a fundraiser to support future Inn of the Good Shepherd initiatives.

Bluewater Power spent \$29,390 in 2006 and a total of \$52,609 on Low Income Consumers and now considers the program finalized.

j) Membership Program

Bluewater Power has established membership in a number of organizations which has allowed us the opportunity to leverage CDM spending on existing infrastructures.

Membership with the Canadian Centre for Pollution Prevention, the Canadian Energy Efficiency Alliance, the Canadian Bioenergy Association, the Electricity Distributors Association, the Electrical Safety Authority and the Ontario Electrical league were all maintained through 2006.

Bluewater Power spent \$435 in 2006 and a total of \$5,539 on memberships and the program is now considered finalized.

k) Load Control Program

Original funds budgeted for these programs were reallocated to the low income and energy audit programs with the permission of the Ontario Energy Board. The permission was granted by a Decision and Order dated July 7, 2005.

l) Energy Data Management System

Bluewater Power's EDM System was fully implemented in 2006.

EDM is the system that enabled Bluewater Power to measure, track, monitor, benchmark and report on time based consumption data. EDM will provide Bluewater Power with the capacity to import data from AMR systems and from IESO web based interfaces. It will provide Bluewater Power the capacity to manage time based consumption data assigned to specific individual accounts with the ability to plot and graph for presentation and reporting. Bluewater Power will have the ability to forecast consumption profiles based on historical data.

The EDM System will be critical to smart meter implementation. The data will also be utilized in a manner to analyze, prioritize and promote CDM activities across all rate classifications within Bluewater Power.

Bluewater Power spent \$162,545 in 2006 and a total of \$174,262 on EDM and the program is now considered finalized.

m) Smart Meter Pilot

A smart metering pilot in the Town of Watford wrapped up in the fall of 2006.

Representatives from Bluewater Power attended a public information night to report general findings. Specific reports were delivered to all individual customers and in addition customers were provided the opportunity to discuss smart metering at two sessions held at the Watford Public Library.

Bluewater Power findings were sent to Maria Van Bommel, MPP for Lambton-Middlesex.

Bluewater Power spent \$135 in 2006 and a total of \$29,662 on the Smart meter pilot program and the program is now considered finalized.

n) Energy Audit Program

This initiative was modeled after attending the three NRCan's "Dollars to Sense" workshops. The energy assessments are targeted at commercial customers and provide an analysis of a premise's consumption and demand profile once a load inventory is obtained.

To date Bluewater Power has spent \$23,197 in 2006 and a total of \$73,464 on the Energy Audit Program and the program is now considered finalized.

Lessons Learned

The focus of Bluewater Power focus was to spend funds granted under Third Tranche mostly in 2005. Our aim was to get out of the gate early and concentrate our efforts on consumer education and awareness.

We succeeded in reaching that target. Customers have received the message and they look to their local distribution company to provide advice and direction to assist them with energy conservation within their home or business. While some may continue to view CDM with an element of skepticism, Bluewater Power feels that the majority of our customers want to do more and look to Bluewater Power for guidance. The number of customers visiting our web site demonstrates a willingness from our customers to seek information.

The "Science Partnership" with the two local school boards continues to provide very solid support for the energy conservation message; discussion with local retailers show strong response to compact fluorescent lighting and Seasonal LED.

Conclusion

Bluewater Power considers our 3rd tranche program complete, although we remain committed to delivering Conservation and Demand Management initiatives to our customers. Bluewater applied for incremental funding in 2006 and will report on this funding with a separate filing. Bluewater Power plans to focus any approved future CDM funding on measures which tend to be highly cost effective.

Bluewater Power anticipates involvement with the Ontario Power Authority's LDC CDM Program in 2007 which will replace the third tranche funding. Bluewater Power is confident that "Programs in a Box" approach will contribute to the realization of significant energy savings for our customers. It will be a key element in our CDM plan working towards the culture of conservation in Ontario.

Bluewater Power had a total budget for third tranche spending of \$657,600. The final total expenditures amounted to \$657,710 resulting in a minute variance.

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.

	₅ Cumulative Totals Life-to- date	Total for 2006	Residential	Commercial	Institutional	Industrial	Agricultural	LDC System	₄ Smart Meters	Other #1	Other #2
Net TRC value (\$):	7,176.10	\$ 3,616	\$ 3,152	\$ 464	\$-	\$-	\$-	\$-		\$-	\$-
Benefit to cost ratio:	1.62	1.53	0.09	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Number of participants or units delivered:	606	606	585	21							
Lifecycle (kWh) Savings:	293,074	293,074	258,634	34,440	0	0	0	0		0	0
Report Year Total kWh saved (kWh):	119,858	60,219	53,331	6,888	0	0	0	0		0	0
Total peak demand saved (kW):	26.6	13	12	1	0	0	0	0		0	0
Total kWh saved as a percentage of total kWh delivered (%):	0.01	0.01	0.02	0.002							
Peak kW saved as a percentage of LDC peak kW load (%):	0.012	0.012	0.024	0.002							
Report Year Gross C&DM expenditures (\$):	40799	\$ 135	\$-	\$-	\$-	\$-	\$-	\$-	\$ 135	\$-	\$-
² Expenditures per KWh saved (\$/kWh):	0.34	\$ 0.00	\$-	\$-	\$-	\$-	\$-	\$-		\$-	\$-
3 Expenditures per KW saved (\$/kW):	1533.8	\$ 10.15	\$-	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$-
Utility discount rate (%):	7.02										

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.

5 Includes total for the reporting year, plus prior year, if any (for example, 2006 CDM Annual report for third tranche will include 2005 and 2004 numbers, if any.

Appendix B - Discussion of the Program

(complete this Appendix for each program)

Name of the Program: Α.

Community Outreach

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

One component of our community outreach was Community Tent Events. It provided our customers the opportunity to engage one on one with a Bluewater Power representative and discuss energy conservation. Bluewater Power provided a free 15w cfl to customers. In return the customer completed a survey providing Bluewater Power with benchmarking information.

	Measure(s):					
		Measure 1	Me	asure 2 (if applicable)	Measure 3	(if applicable)
	Base case technology:	60w incandescent				
	Efficient technology:	15w cfl				
	Number of participants or units					
	delivered for reporting year:	C)			
	Measure life (years):	4	1			
	Number of Participants or units					
	delivered life to date	480)			
В.	TRC Results:			Reporting Year	Life-to-date	TRC Results:
1	TRC Benefits (\$):		\$	2,937.60		5855.2
2	TRC Costs (\$):					
	Utility µ	program cost (excluding incentives):	\$	-		3285.9
	Incrementa	I Measure Costs (Equipment Costs)	\$	-		1641.6
		Total TRC costs:	\$	-		4927.5
	Net TRC (in year CDN \$):		\$	2,937.60		927.7
	Demofit to Opert Dette (TDO Demofite)					4.40
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs):				1.19
C.	Results: (one or more category may	/ apply)			Cumulati	ve Results:
	Conservation Programs:					
	Demand savings (kW):	Summer	0			0
		Winter	11.04		22.08	3
					Cumulative	Cumulative
		lifecycle		in year	Lifecycle	Annual Savings
	Energy saved (kWh):	199680	49920			99840
	Other resources saved :					
	Natural Gas (m3):					
	Other (specify):					
	Demand Management Programs:					
	Controlled load (kW)					
	Energy shifted On peak to Mid peak	· (k14/b):				
	Energy shifted On peak to Off peak	(KVVII).				
	Energy shifted Mid needs to Off-peak	(KVVII). - (LIA/L)-				
	Energy shined wid-peak to On-peak	(KVVII).				
	Demand Response Programs:					
	Dispatchable load (kW):					
	Peak hours dispatched in year (hour	rs):				
	Power Factor Correction Program	<u>s:</u>				
	Amount of KVar installed (KVar):					
	Distribution system power factor at b	beginning of year (%):				
	Distribution system power factor at e	end of year (%):				

Line Loss Reduction Programs:

	Peak load savings (kW):					
		lifecycle		in year		
	Energy savings (kWh):					
	Distributed Generation and Load	d Displacement Programs:				
	Amount of DG installed (kW):					
	Energy generated (kWh):					
	Peak energy generated (kWh):					
	Fuel type:					
	Other Programs (specify):					
	Metric (specify):					
	monie (opeeny).					
D.	Actual Program Costs:		<u> </u>	Reporting Year	Cumulative Life	to Date
	Utility direct costs (\$):	Incremental capital:	\$	-	\$	3,651.00
		Incremental O&M:	\$	-	\$	1,824.00
		Incentive:	\$	-	\$	-
		Total:	\$	-	\$	5,475.00
	Utility indirect costs (\$):	Incremental capital:				
		Incremental O&M:				
		Incremental O&M: Total:				

E. Assumptions & Comments:

No additional monies were spent on Community Tent Events during the 2006 reporting year. As a component of Third tranche funding this program is now considerd finalized.

¹ Benefits should be estimated if costs have been incurred <u>and</u> 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 B - Discussion of the Program

(complete this Appendix for each program)

A. Name of the Program:

Inn to Win

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

An opportunity to raise money for the Inn of the Good Shepherd presented itself through a lottery promoting Energy Star energy efficiency products A storefront was established with a display of appliances and tickets were sold with proceeds going to the Inn of the Good Shepherd.

Measure(s):

		Measure 1	Mea	sure 2 (if applical	ole)	Measure 3	(if applicable)
	Base case technology:	Standard dishwasher	Standar	d clothes washer		Standard CAC	
	Efficient technology:	Energy Star dishwasher	Energy	Star clothes wash	er	Enerov Star CA	C
	Number of participants or units						0
	delivered for reporting year:	1	1				
	Measure life (years):	13	14				14
	Number of Participants or units						1
	delivered life to date	2	2				
		2	2				
В.	TRC Results:			Reporting Year		Life-to-date	TRC Results:
1	TRC Benefits (\$):		\$		94.38		152.75
2	2 TRC Costs (\$):						
	Utility	program cost (excluding incentives).	\$		_		20807 1
	Incrementa	Measure Costs (Equipment Costs)	φ ¢				20097.1
	incrementa		ф Ф		-		00007.4
		Total TRC costs:	\$		-		20897.1
	Net TRC (In year CDN \$):		\$		94.38		-20744.35
	Renefit to Cost Ratio (TRC Renefits	TRC Costs):					0.007
	Denenii to Cost Natio (TNO Denenits/	1110 00313).					0.007
C.	Results: (one or more category may	/ apply)				Cumulati	ve Results:
	Conservation Programs:						
	Demand savings (kW):	Summer	0.391				0.782
		Winter	0.042			0.084	1
						Cumulative	Cumulative
		lifecycle		in year		Lifecycle	Annual Savings
	Energy saved (kWh):	20954	1511	,		-	2442
	Other resources saved :						
	Notural Coo (m2):						
	Other (specity):						
	Demand Management Programs:						
	Controlled load (kW)						
	Energy shifted On posk to Mid posk	(k)A/b):					
	Energy shifted On-peak to Mid-peak	(KVVII).					
	Energy shifted On-peak to Off-peak	(KWh):					
	Enarmy chifted Mid neals to Off neal						
	Energy shined Mid-peak to Oil-peak	: (kWh):					
	Energy shined Mid-peak to Oil-peak	: (kWh):					
	Demand Response Programs:	: (kWh):					
	Demand Response Programs: Dispatchable load (kW):	: (kWh):					
	Demand Response Programs: Dispatchable load (kW): Peak hours dispatched in year (hour	: (kWh): rs):					
	Demand Response Programs: Dispatchable load (kW): Peak hours dispatched in year (hour Power Factor Correction Program	rs):					
	Demand Response Programs: Dispatchable load (kW): Peak hours dispatched in year (hour Power Factor Correction Program Amount of K)(or installed (K)(or)):	: (kWh): rs): <u>s:</u>					
	Demand Response Programs: Dispatchable load (kW): Peak hours dispatched in year (hour Power Factor Correction Program Amount of KVar installed (KVar):	: (kWh): rs): <u>s:</u>					
	Demand Response Programs: Dispatchable load (kW): Peak hours dispatched in year (hour Power Factor Correction Program Amount of KVar installed (KVar): Distribution system power factor at the	: (kWh): rs): s: peginning of year (%):					

Line Loss Reduction Programs:

	Peak load savings (kW):				
		lifecycle	in y	<i>rear</i>	
	Energy savings (kWh):				
	Distributed Generation and Load	d Displacement Programs:			
	Amount of DG installed (kW):				
	Energy generated (kWh):				
	Peak energy generated (kWh):				
	Fuel type:				
	Other Programs (specify):				
	Metric (specify):				
	werne (speeny).				
D.	Actual Program Costs:		Reporti	ing Year	Cumulative Life to Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	<u>Reporti</u> \$	ing Year - \$	Cumulative Life to Date 4,167.00
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	<u>Reporti</u> \$ \$	ing Year - \$ - \$	Cumulative Life to Date 4,167.00 19,052.00
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	Reporti \$ \$ \$	ing Year - \$ - \$ - \$	Cumulative Life to Date 4,167.00 19,052.00
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>Reporti</u> \$ \$ \$ \$	ing Year - \$ - \$ - \$ - \$ - \$	Cumulative Life to Date 4,167.00 19,052.00 - 23,219.00
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	Reporti \$ \$ \$ \$ \$	ing Year - \$ - \$ - \$ - \$	Cumulative Life to Date 4,167.00 19,052.00 - 23,219.00
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	Reporti \$ \$ \$ \$	ing Year - \$ - \$ - \$	Cumulative Life to Date 4,167.00 19,052.00 - 23,219.00
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	<u>Reporti</u> \$ \$ \$	ing Year - \$ - \$ - \$	Cumulative Life to Date 4,167.00 19,052.00 - 23,219.00
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	<u>Reporti</u> \$ \$ \$ \$	ing Year - \$ - \$ - \$	Cumulative Life to Date 4,167.00 19,052.00 - 23,219.00

E. Assumptions & Comments:

¹ Benefits should be estimated if costs have been incurred <u>and</u> 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 B - Discussion of the Program

(complete this Appendix for each program)

A. Name of the Program:

Seasonal LED

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

Bluewater Power partnered with Sarnia's Celebration of Lights, a winter lighting festival. The Town of Petrolia was offered a rebate for their Communities in Bloom winter lighting competition. Incremental funding was approved in 2006 specific to seasonal LEd and the results of that program will be provided in a separate OEB filing.

Measure(s):

		Measure 1	M	easure 2 (if applicable)	Measure 3	(if applicable)
	Base case technology:	5w Incandescent Christmas light	t			
	Efficient technology:	LED Christmas light				
	Number of participants or units					
	delivered for reporting year:	()			
	Measure life (years):	20)			
	Number of Participants or units					
	delivered life to date	10	`			
		10	,			
В.	TRC Results:			Reporting Year	Life-to-date	TRC Results:
1	TRC Benefits (\$):		\$	119.70		239.4
2	TRC Costs (\$):		÷			200.1
		program cost (excluding incentives):	¢			701.05
	Incremente	Magazina Casta (Equipment Casta).	φ Φ	-		721.05
	Incrementa		\$	-		
		Total TRC costs	•\$	-		721.05
	Net TRC (in year CDN \$):					-481.65
	Ponofit to Cost Patia (TPC Ponofita	(TPC Costs);				0.22
	benefit to Cost Ratio (TRC benefits,	TRC Cosis).				0.33
C.	Results: (one or more category may	y apply)			Cumulati	ve Results:
	Conservation Programs:					
	Demand savings (kW):	Summer	0			0
		Winter	0.8			1.6
					Cumulative	Cumulative
		lifecycle			Lifoquala	Annual Savings
		1100,010		in vear		
	Energy saved (kM/h):	28000	1000	in year	Lilecycle	3800
	Energy saved (kWh):	38000	1900	in year	Lilecycle	3800
	Energy saved (kWh): Other resources saved :	38000	1900	in year	Lilecycle	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3):	38000	1900	in year	Lifecycle	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify):	38000	1900	in year	Lifecycle	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify):	38000	1900	in year	Liietytie	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs:	38000	1900	in year	Liietytie	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs: Controlled load (kW)	38000	1900	in year	Liietytie	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs: Controlled load (kW) Energy shifted On-peak to Mid-peak	38000 < (kWh):	1900	in year	Liietytie	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs: Controlled load (kW) Energy shifted On-peak to Mid-peak Energy shifted On-peak to Off-peak	38000 < (kWh): (kWh):	1900	in year	Liietytie	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs: Controlled load (kW) Energy shifted On-peak to Mid-peak Energy shifted On-peak to Off-peak Energy shifted Mid-peak to Off-peak	38000 < (kWh): (kWh): < (kWh):	1900	in year	Liietytie	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs: Controlled load (kW) Energy shifted On-peak to Mid-peak Energy shifted On-peak to Off-peak Energy shifted Mid-peak to Off-peak	38000 (kWh): (kWh): (kWh):	1900	in year	Liietytie	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs: Controlled load (kW) Energy shifted On-peak to Mid-peak Energy shifted On-peak to Off-peak Energy shifted Mid-peak to Off-peak Demand Response Programs:	38000 < (kWh): (kWh): < (kWh):	1900	in year	Liieuyuie	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs: Controlled load (kW) Energy shifted On-peak to Mid-peak Energy shifted On-peak to Off-peak Energy shifted Mid-peak to Off-peak Energy shifted Mid-peak to Off-peak Demand Response Programs: Dispatchable load (kW):	38000 ((kWh): (kWh): ((kWh):	1900	in year	Liieuyuie	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs: Controlled load (kW) Energy shifted On-peak to Mid-peak Energy shifted On-peak to Off-peak Energy shifted Mid-peak to Off-peak Energy shifted Mid-peak to Off-peak Demand Response Programs: Dispatchable load (kW): Peak hours dispatched in year (hou	38000 ((kWh): (kWh): ((kWh): rs):	1900	in year	Liieuyuie	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs: Controlled load (kW) Energy shifted On-peak to Mid-peak Energy shifted On-peak to Off-peak Energy shifted Mid-peak to Off-peak Energy shifted Mid-peak to Off-peak Demand Response Programs: Dispatchable load (kW): Peak hours dispatched in year (hour Power Factor Correction Program	38000 ((kWh): (kWh): ((kWh): rs): ns:	1900	in year	LifeCycle	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs: Controlled load (kW) Energy shifted On-peak to Mid-peak Energy shifted On-peak to Off-peak Energy shifted Mid-peak to Off-peak Energy shifted Mid-peak to Off-peak Demand Response Programs: Dispatchable load (kW): Peak hours dispatched in year (hour Power Factor Correction Program Amount of KVar installed (KVar):	38000 (<i>kWh</i>): (<i>kWh</i>): (<i>kWh</i>): rs): ns:	1900	in year	Liieuyuie	3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs: Controlled load (kW) Energy shifted On-peak to Mid-peak Energy shifted On-peak to Off-peak Energy shifted Mid-peak to Off-peak Energy shifted Mid-peak to Off-peak Demand Response Programs: Dispatchable load (kW): Peak hours dispatched in year (hour Power Factor Correction Program Amount of KVar installed (KVar): Distribution system power factor of the	38000 (<i>kWh</i>): (<i>kWh</i>): (<i>kWh</i>): rs): hereinning of year (%):	1900	in year		3800
	Energy saved (kWh): Other resources saved : Natural Gas (m3): Other (specify): Demand Management Programs: Controlled load (kW) Energy shifted On-peak to Mid-peak Energy shifted On-peak to Off-peak Energy shifted Mid-peak to Off-peak Energy shifted Mid-peak to Off-peak Demand Response Programs: Dispatchable load (kW): Peak hours dispatched in year (hour Power Factor Correction Program Amount of KVar installed (KVar): Distribution system power factor at the	38000 (kWh): (kWh): (kWh): (kWh): rs): hs: beginning of year (%):	1900	in year	Liecycle	3800

Line Loss Reduction Programs:

	Peak load savings (kW):					
		lifecycle		in year		
	Energy savings (kWh):					
	Distributed Generation and Load	I Displacement Programs:				
	Amount of DG installed (kW):					
	Energy generated (kWh):					
	Peak energy generated (kWh):					
	Fuel type:					
	Other Programs (specify):					
	Metric (specify):					
	(1)))					
D.	Actual Program Costs:		<u>R</u>	eporting Year	Cumulative Life t	o Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital:	<u>R</u> \$	eporting Year -	Cumulative Life t	o Date
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M:	<u>R</u> \$ \$	eporting Year - -	Cumulative Life t	o Date 759.00
D.	<u>Actual Program Costs:</u> Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive:	<u>R</u> \$ \$	eporting Year - - -	Cumulative Life t	t <mark>o Date</mark> 759.00
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>R</u> \$ \$ \$ \$	eporting Year - - - -	Cumulative Life t \$	to Date 759.00 759.00
D.	Actual Program Costs: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	<u>R</u> \$ \$ \$	eporting Year - - - -	Cumulative Life t	759.00
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	<u>R</u> \$ \$ \$	eporting Year - - - -	Cumulative Life t \$ \$	759.00
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	<u>R</u> \$ \$ \$	eporting Year - - - -	Cumulative Life t \$ \$	o Date 759.00 759.00
D.	Actual Program Costs: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	<u>R</u> \$ \$ \$	eporting Year - - - -	Cumulative Life t	759.00 759.00

E. Assumptions & Comments:

¹ Benefits should be estimated if costs have been incurred <u>and</u> 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 B - Discussion of the Program

(complete this Appendix for each program)

A. Name of the Program:

Power Smart Team

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

An internal working group- the power Smart Team implemented energy efficient retrofits at Bluewater Power. This measure provides analysis of T5 high bay lighting for the service garage.

Measure(s):

		Measure 1	Me	easure 2 (if applicable)	Measure 3	(if applicable)
	Base case technology:	400w metal halide lamps				
	Efficient technology:	T5 lamps				
	Number of participants or units					
	delivered for reporting year:	C)			
	Measure life (years):	5	5			
	Number of Participants or units					
	delivered life to date	21				
		21				
В.	TRC Results:			Reporting Year	Life-to-date	TRC Results:
1	TRC Benefits (\$):		\$	464.37		928.75
2	TRC Costs (\$):					
	Utility	program cost (excluding incentives):	\$	-		10089.9
	Incrementa	Measure Costs (Equipment Costs)	¢			10000.0
	merementa		φ	-		40000.0
		Total TRC costs:	\$	-		10089.9
	Net TRC (In year CDN \$):		\$	464.37		-9161.15
	Benefit to Cost Ratio (TRC Benefits)	TRC Costs)				0.09
	Bonom to Coot Adilo (The Bonomo,					0.00
C.	Results: (one or more category may	y apply)			Cumulat	ive Results:
	Conservation Programs:					
	Demand savings (kW):	Summer	0.504			1.008
		Winter	0.525		1.0	5
					Cumulative	Cumulative
		lifecycle		in year	Lifecycle	Annual Savings
	Energy saved (kWh):	34440	6888	-		13776
	Other resources saved :					
	Notural Cap (m2):					
	Natural Gas (113).					
	Other (specify):					
	Demand Management Programs:					
	Controlled load (kW)					
	Energy shifted On-peak to Mid-peak	(kM/b):				
	Energy shifted On-peak to Wild-peak	((NVVII).				
	Energy shifted On-peak to Off-peak	(KVVN):				
	Energy shifted Mid-peak to Off-peak	((kWh):				
	Domand Posponso Programs:					
	Demand Kesponse Programs.					
	Peak nours dispatched in year (nou	rs):				
	Power Factor Correction Program	is:				
	Amount of KVar installed (KVar):					
	Amount of KVar installed (KVar): Distribution system power factor at k	beginning of year (%):				
	Amount of KVar installed (KVar): Distribution system power factor at & Distribution system power factor at e	beginning of year (%): end of year (%):				

Line Loss Reduction Programs:

	Peak load savings (kW):					
		lifecycle		in year		
	Energy savings (kWh):					
	Distributed Generation and Load	d 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 L	ife to Date
	Utility direct costs (\$):	Incremental capital:	\$	-	\$	7,511.00
		Incremental O&M:	\$	-	\$	3,700.00
		Incentive:	\$	-	\$	-
			÷			
		Total:	\$	-	\$	11,211.00
		Total:	\$	-	\$	11,211.00
	Utility indirect costs (\$):	Total: Incremental capital:	\$	-	\$	11,211.00
	Utility indirect costs (\$):	Total: Incremental capital: Incremental O&M:	\$	-	\$	11,211.00
	Utility indirect costs (\$):	Total: Incremental capital: Incremental O&M: Total:	\$	-	\$	11,211.00

E. Assumptions & Comments:

¹ Benefits should be estimated if costs have been incurred <u>and</u> 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:

2006

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.

	TF	C Benefits (PV)	TRC Co	osts (PV)	\$ Net	t TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Demand (kW) Saved	Gross C& Expenditure	∍ar DM ∋s (\$)
Community Outreach	\$	2,938	\$	-	\$	2,938	0.00	49,920	199,680	11	\$	-
Inn to Win- Low Income	\$	94	\$	-	\$	94	0.00	1,511	20,954	0	\$	-
Seasonal LED	\$	120	\$	-	\$	120	0.00	1,900	38,000	1	\$	-
*Totals App. B - Residential	\$	3,152	\$	-	\$	3,152	0.00	53,331	258,634	12	\$	-
Residential Indirect Costs not attributable to any specific program												
Total Residential TRC Costs			\$	-								
**Totals TRC - Residential	\$	3,152	\$	-	\$	3,152	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.

	TR	C Benefits (PV)	TRC Costs (PV)	\$ Ne	t TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Power Smart Team-T5 Lighting	\$	464		\$	464	0.00	6,888	34,440	1	\$ -
*Totals App. B - Commercial	\$	464	\$-	\$	464	0.00	6,888	34,440	1	\$-
Commercial Indirect Costs not attributable to any specific program										
Total TRC Costs			\$-							
**Totals TRC - Commercial	\$	464	\$-	\$	464	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				

**Totals TRC - Institutional	\$-	\$ -	\$.	0.00				
Total TRC Costs		\$-			_			
Institutional Indirect Costs not attributable to any specific program								
*Totals App. B - Institutional	\$-	\$-	\$	0.00	0	0	0	\$-
Name of Program I			\$	· 0.00				
Name of Program H			\$	0.00				
Name of Program G			\$	0.00				
Name of Program C			\$	0.00				
Name of Program E			\$	0.00				
Name of Program D			\$	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.

	TPC Bonofite			Bonofit/Cost	Poport Yoar Total	Lifocyclo (kWb)	Total Peak	Report Year
	(PV)	TRC Costs (PV)	\$ Net TRC Benefits	Ratio	kWh Saved	Savings	Saved	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 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.

							Total Peak	Report Year
	TRC Benefits			Benefit/Cost	Report Year Total	Lifecycle (kWh)	Demand (kW)	Gross C&DM
	(PV)	TRC Costs (PV)	\$ Net TRC Benefits	Ratio	kWh Saved	Savings	Saved	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	\$-	\$-	\$ -	0.00	0	0	0	\$ -
Agricultural Indirect Costs not attributable to any specific program								
Total 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 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 (\$)

135

8. Other #1 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.

	TPC Bonofits			Bonofit/Cost	Poport Voar Total	Lifocyclo (kWb)	Total Peak	Report Year
	(PV)	TRC Costs (PV)	\$ Net TRC Benefits	Ratio	kWh Saved	Savings	Saved	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				
*Totals App. B - Other #1	\$-	\$ -	\$ -	0.00	0	0	0	\$-
Other #1 Indirect Costs not attributable to any specific program								
Total TRC Costs		\$-						
**Totals TRC - Other #1	\$-	\$ -	\$ -	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.

				D (110)			Total Peak	Report Year
	TRC Benefits			Benefit/Cost	Report Year Total	Lifecycle (kWh)	Demand (kW)	Gross C&DM
	(PV)	TRC Costs (PV)	\$ Net TRC Benefits	Ratio	kWh Saved	Savings	Saved	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	\$-
Other #2 Indirect Costs not attributable to any specific program								
Total TRC Costs		\$-						
**Totals TRC - Other #2	\$ -	\$ -	\$ -	0.00				

LDC's CDM PORTFOLIO TOTALS

	TRC Benefits (PV)		B TRC Costs (PV) \$ Net TRC Benefits		Benefit/Cost Report Year Total Ratio kWh Saved			Li	fecycle (kWh) Savings	[Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)			
*TOTALS FOR ALL APPENDIX B	\$	3,616	\$ -	\$	3,616	0.00	\$	60,219	\$	293,074	\$	13	\$		135
Any <u>other</u> Indirect Costs not attributable to any specific program															
TOTAL ALL LDC COSTS			\$-												
**LDC' PORTFOLIO TRC	\$	3,616	\$ -	\$	3,616	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.