



CHEC-RP-2004-0203/EB-2004-0502

Conservation and Demand Annual Report

1.0 Introduction:

This report summarizes the activity and successes of the Cornerstone Hydro Electric Concepts (CHEC) Group with respect to conservation and demand management undertaken in 2005. Included in this document are the sixteen (16) individual reports from the CHEC members that discuss their specific program activities and the associated insights of the members.

Consistent with CHEC members' cooperative effort to seek approval of their CDM plans as a combined group, the Annual Report reflects their commitment to work together to provide cost effective programs and to share and learn from each other's experience. Although this report is submitted as one document it is clear from the individual reports that each utility brings its own perspective and goals to the CDM activities.

Within the 16 utilities there have been a total of ninety-two (92) initiatives. These initiatives represent projects specific to individual utilities and others that are similar or a cooperative effort between utilities (Conservation Website, EnergyShop.com). Some utilities have focused on promoting and providing energy efficient technology to their customers with the associated kWh savings, while others have been more focused on laying the foundation for future programs. To achieve the "conservation culture", the overriding goal in Ontario, both types play an important role.

CHEC with its dynamic relationship, positions members well to learn from and leverage the experience of others. The combined report as well as meeting the regulatory requirement, provides a comprehensive summary to CHEC members. This report will help to provide additional insights, as utility staff plan and implement the 2006 and 2007 programs.

The experiences gained in 2005 will be invaluable for the continued development of CDM and the ability to move forward programs that save energy and develop the conservation culture. The experiences gained over 2005 add to the collective knowledge of the industry and sets the stage for on-going improvement in the development, delivery, monitoring and reporting of CDM initiatives.

2.0 CHEC Members:

The 2005 Annual Report on Conservation and Demand Management Activities of the following utilities are included in this report:

Centre Wellington Hydro Ltd.	Collus Power Corp
Grand Valley Energy Inc.	Innisfil Hydro
Lakefront Utilities Inc.	Lakeland Power Distribution
Midland Power Utility Corp.	Orangeville Hydro Ltd
Orillia Power Distribution Corp.	Parry Sound Power
Rideau St. Lawrence	Wasaga Distribution Inc.
Wellington North Power Inc.	West Coast Huron Energy Inc.
Westario Power	Woodstock Hydro Services

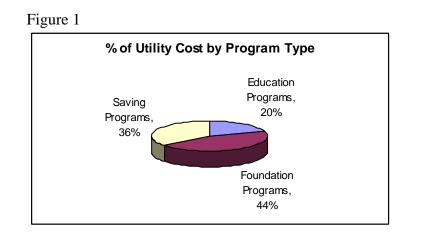
3.0 Evaluation of the CDM Plan:

Total Portfolio: The 16 CHEC members collectively ran a total of 92 programs. These programs fell within three categories:

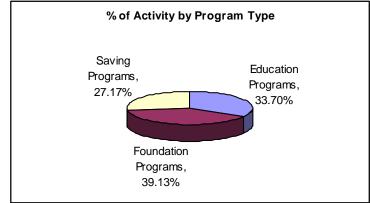
- Savings: Delivery of energy saving products or processes: coupons, rebates, free products, etc.
- Education: Providing general energy management information through such activities as: website development, workshops, brochures, etc,
- Foundation: Preparatory work for future programs that include: program research and development, energy audits, system studies, demonstration projects, partnerships, etc.

The program results represent a total energy savings of 29,760,749 kWh at a combined "Utility Cost" of \$908,387 or approximately 3c/kWh. This low cost of energy saved was achieved while providing both education and foundation building programs in addition to the specific initiatives aimed at savings kWh. To put the energy savings in perspective the 29.7 Million kWh represent the annual energy required by 2,400 homes (at 1000 kWh/month).

Figure 1 and Figure 2 illustrates the breakdown of the programs into the three types. From the figure it can be seen that cost and activity generally correlate. Programs aimed at immediate kWh savings represent 36% of the cost while they represent 27% of the programs delivered during the year. Education and Foundation programs, that are expected to return improved kWh savings in the future, represent 64% of the cost and 73% of the activity. From the spending and activity level in the different categories it can be seen that 2005 while providing energy savings has focused on preparing for year two and three of CDM delivery.







Savings Programs: The programs aimed at immediate results focused on energy savings rather than peak demand. The average cost of energy saved through the "Energy Savings" programs was 1.1c/kWh.

The use of product incentives and give-a-ways contributed significantly to achieving immediate energy savings. Programs such as the "Lighten Your Electricity Bill" and local product incentives such as CFL distribution programs resulted in energy savings throughout the membership. The wide scale programs provided an economy of scale while the local programs built on relationships and resources within the community. The product focused programs represented a utility cost of \$163,400 and a lifetime energy savings of 15,692,800 kWh or 1.1c/kWh.

Four system optimization projects (out of a total of twelve) involved field changes completed in 2005 that captured energy savings. The four field projects represent a utility cost of \$163,300 and a lifetime energy savings of 12,793,000 kWh or 1.3c/kWh (note: one program pending review to confirm savings).

Education Programs: These programs while not generating any immediate savings represent the future of CDM within the Province. Incentive programs while providing immediate savings cannot on their own change behaviour within the customer group. Programs aimed at increasing the customer's knowledge of energy use is required if long term savings are desired. As the saying goes – If you give a person a CFL you provide energy savings for 4 years. If you provide a person with the knowledge to save energy you provide energy savings for a lifetime. This is the role of the education programs.

Twenty percent of the total utility cost was spent on providing education to the customers. The activities within this classification vary from providing brochures to detailed customer workshops. Although the results of these programs are not immediate it is believed that they will impact positively on customer participation in future programs and prepare customers to make informed decisions with regards to energy use.

CHEC is in the process of developing a website focused on energy conservation. The website in addition to providing energy management knowledge to the customers will also allow the effective exchange of CDM information between CHEC members. The website funding includes dollars to allow the CHEC membership to engage external resources to assist in developing the site and also assist members with CDM issues of common interest.

It is interesting to note in the "Education" section the experience of one CHEC member (Orillia) with success from an industrial workshop. As a direct result of a "Dollar to Sense" workshop changes were made in an industrial setting that resulted in quantifiable savings. These results were captured because the customer communicated the action and potential energy savings to the utility. The savings of 255,000 kWh annually, clearly illustrates the role "education" can play in obtaining significant energy savings.

Foundation Program: These programs are those initiatives aimed at developing programs that will provide savings in the future. Thirty nine percent of the programs (44% of utility cost) focused on research and development of programs that will be delivered in year two and three of the CDM Plan. At the end of the reporting period however the programs have not been rolled out or have not generated any savings to date. For the purpose of reporting, projected savings have generally not been utilized.

Foundation Programs include initiatives such as: system optimization studies, smart meter preparation, customer audits, demonstration projects and relationship building, to name a few. Unlike education, where the activity is geared to the customer, these programs are aimed at ensuring the appropriate information and processes for the CDM activity of future years. Approaching the end of the first quarter of 2006 it is apparent that there are a number of programs that are moving forward as a direct result of the foundation work completed in 2005 (e.g. Woodstock finance plan, Orangeville Reduce the Juice)

Net TRC Results: The net TRC result of the combined CHEC CDM activity for 2005 is \$499,756. Although a large number, it is difficult to determine if this represents good success of the overall portfolio. While net TRC measures the dollar benefits of avoided electrical energy cost it does not measure the education and development work that is associated with an on-going CDM program.

Reviewing the individual reports of the CHEC members indicates that ten of the members had positive Net TRCs while six had negative Net TRCs. In isolation one may conclude that anything but a positive TRC is undesirable. However it is proposed that the TRC for the first year of a multi-year program does not reflect the overall value of the effort undertaken and that the overall activity of the utility should be taken into account.

As noted above there has been a significant amount of education and foundation work undertaken by CHEC members. The individual reports indicate a mix of approaches with some focusing on preparatory work, others on immediate deliverables and others on a mix of programs. Depending on the success of programs aimed at delivering immediate savings and the cost of education and foundation programs the Net TRC will vary. **Through the sharing of program information and outcomes CHEC members will be able to learn from each others' experiences to continue to deliver effective CDM programs in the future.**

4.0 Discussion of Programs:

The individual program discussions from each utility should be examined. These discussions provide the individual utility perspective on the programs as offered in their service territory. The complete Annual CDM Report for each utility is included in the appendices. One copy of the SeeLine Total Resource Cost Test Assessment of the '2005 Lighten Your Electricity Bill' Program is also included in the appendices as a sample of the program evaluation process for the coupon program as reported in CHEC members' reports.

5.0 Lessons Learned:

Each utility report included in the attached appendices includes lessons learned from the 2005 CDM experience for each utility. Although a flavour of the "lessons learned" is summarized in this section the reader is encouraged to review the individual reports for additional insights.

Application of TRC: This report represents the first large scale application of TRC for the evaluation of CD&M programs in Ontario. The TRC model, while forming a base, is seen to encourage "quick return" programs and does not provide any measure of foundation or education programs that are so critical to developing a "conservation culture". It is believed that for future year evaluation of CDM activities the TRC tool needs to be expanded to take into account education and foundation type programs.

Familiarity has been gained with the TRC tool over the past reporting year. The OEB's initiative to provide a set of assumptions assisted with the evaluation of programs and reporting. The need to continue to refine and add to the list of assumptions for cost effective evaluation is evident. The evaluation process for programs also fails to capture additional activities of customers that are driven through exposure to programs where consumers are not directly taking advantage of a particular coupon or rebate.

Experience gained in reporting the activities of 2005 also indicates the need to ensure that measures of programs are understood at the program design stage. For education programs, in addition to some modification of the TRC model to better recognize the benefits of these programs, mechanisms for obtaining feedback from customers is required. These mechanisms however must be cost effective.

Funding: There remains significant third tranche dollars for the continued delivery of CDM programs in 2006 and potentially 2007. However, if CDM is to continue members will be required to submit applications for additional CDM expenditures. A simplified approval process is required to allow utilities to obtain appropriate CDM funding without being encumbered with a full rate hearing on these items. In addition, as noted above, the TRC tool requires modification to provide value to education and foundation programs. A continued lack of recognition of the value of these types of programs will focus utilities on programs that deliver immediate positive TRC result, a condition that will not foster a "conservation culture".

Partnerships and Sharing: CHEC by its' very existence is about partnerships and sharing. CHEC members are working together to move forward CDM in their service territories. In addition CHEC members have been active participants in local and provincial wide initiatives to build relationships and take advantage of scale. It is believed through these types of endeavours, the "best bang for the buck" can be achieved for the customer.

Province wide initiatives are generally supported by CHEC members as a good way to enter into partnerships with the OPA, manufacturers, contractors, and retail outlets in order to deliver cost effective programming. Within these programs the ability to provide local support and branding is important to allow the existing positive relationship that the local utility enjoys with its customers to be leveraged.

Foundation Year: Many of the CHEC members note in their report the "foundation building" nature of 2005. The ability of the industry to come up to speed is noted as well as the development of programs and guidelines associated with CDM. All CDM participants have been learning over 2005.

Much of the work completed in 2005 sets the stage for the next two years. With a mix of delivered savings, education and investigation of programs CHEC and the industry have prepared for continued CDM over the next two years and beyond.

Customer Readiness: The success of the residential programs offered to customers indicates the readiness of customers to take action to control their energy use and costs. Obtaining resources for utilities to design and deliver commercial and industrial programs requires further attention. The energy savings within these sectors can be extensive, however the lead time for design, delivery and customer implementation is much longer. Members recognize that much of the issue with this sector is the limited resources (time and money) the customers have to put on energy management. Successfully meeting the needs of this sector will require further effort and sharing of projects that have proved successful.

Utility Resources: To-date utilities have not generally increased internal resources to address the CDM portfolio. Utilities have worked the additional CDM demands into existing work loads by placing other issues at a lower priority. Continuation of this arrangement is not sustainable over the long term. Recognition of the impact that continued CDM programming has on resources is required in both the funding and reporting requirements. As noted above under "Funding" a simplified method for accessing CDM funding is required to ensure the appropriate resources are put in place to support the appropriate level of CDM activity.

6.0 Conclusion:

The first year of CDM has been a learning or foundation year. The CHEC members look back on their projects to date and recognize there has been significant learning. As the individual reports indicate there continues to be a commitment to CDM with utilities looking to capture future benefits from the work done in 2005.

CHEC members have delivered energy savings while increasing the collective knowledge of the CDM industry. CHEC members have demonstrated a willingness to be fully engaged in the process. Through the continued sharing of information and programs between members and other organizations, CHEC will continue to play an important role in the design, delivery and reporting of CDM for the benefit of their customers.

7.0 Appendices:

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Appendix 18	SeeLine TRC Assessment for		
	2005 Lighten Your Electricity Bill	page	294

Appendix A - Evaluation of the CDM Plan

]	Total	Residential	Commercial	Institutional	Industrial	Agricultural	LDC System		
Net TRC value (\$):	\$499,756					-	_		
Benefit to cost ratio:	1.582								
Number of participants or units delivered:	115,815.00		Summary	of CHEC	Appendi	ces A			
Total KWh to be saved over the lifecycle of the plan (kWh):	29,760,746.70		Detailed A	's follow fo	r all CHE	C Utilities			
Total in year kWh saved (kWh):	3,048,702.30		Utilities arr	ranged alpl	nabeticall	у			
Total peak demand saved (kW):	329.19								
Total kWh saved as a percentage of total kWh delivered (%):									
Peak kW saved as a percentage of LDC peak kW load (%):									
Gross in year C&DM expenditures (\$):	\$908,385.27								
Expenditures per KWh saved (\$/kWh)*:	\$0.0305								
Expenditures per KW saved (\$/kW)**:	\$2,759.4849								



385 Queen Street Kincardine, ON N2Z 2R4 Tel: (519) 396-3471 Fax: (519) 396-7605

To: Mr., Guy Cluff, President / CEO

Re: C&DM Plan Summary For Westario Power Inc. for 2005

Date: March 23, 2006

Early in 2004, the Provincial Government enacted Bill 4, *The Ontario Energy Board (Electricity Pricing) Act.* The law permitted LCDs to apply for the remaining one-third of the Ontario Energy Board (OEB) approved rate-of-return in 2005 providing that the first year's additional revenue is spent on Conservation and Demand Management (C&DM) programs over a three year period.

Westario Power Inc. applied for and received approval for the remaining one-third of its rate-ofreturn. The company is obligated under the C&DM Project amounts to approximately \$650,000.

In 2005, Westario Power C&DM Programs included:

- **Smart Meter Pilot Project**. In conjunction with the Ontario Utilities Smart Meter (OUSM) initiative, 125 residential smart meters were installed in the village of Mildmay.
- **ENERconnect Discount Coupon Program**. Offered though Canadian Tire stores, the program offered coupons to Westario Power customers for energy saving items. The discount coupon program also included a home energy audit, offered though the Residential Energy Efficiency Program (REEP).
- Educational and Promotional Materials. Promotional brochures promoted public education and raised public awareness of energy conservation.
- Energy Conservation Web site. In conjunction with the Cornerstone Hydro Electric Cooperative (CHEC, an LCD industry group).
- **Residential Energy Efficiency Program**. Although also offered as part of the ENERconnect Discount Coupon Program, Westario Power Also participated in a standalone REEP program with additional incentives beyond those offered in the coupon program.

Discussion of the Initiatives:

1. Smart Meters

In conjunction with the OUSM, a pilot project was initiated in the village of Mildmay. SilverSprings Technologies partnered with GE Meters to test a smart meter technology, under the supervision of the OUSM. A public outreach campaign for 125 candidate residential services was filled. The meters utilize a radio frequency communication system. A series of "gateways" communicate to a group of meters. Interrogation and testing is being handled by the OUSM with cooperation with the vendors.

We await the final results from the OUSM pilot projects. No one technology will support all applications. We expect that although this technology may be adopted, the actual means to communicate will not be limited to strictly any one mode (radio frequency in this case).

The Provincial Government has mandated that smart meters be installed on all residential services by 2010. However, a smart meter specification has not yet been finalized for meters and associated equipment.



Expenditures to end of 2005: \$86,763

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2. ENERconnect Discount Coupon Program

In partnership with the CHEC group, Westario participated in a discount coupon offered through Canadian Tire stores. The Program was administered by *EnergyShop*, and the data compiled by *SeeLine*. The coupon program offered consumers discounts on energy saving household items. These items included compact florescent bulbs (CFL), LED Seasonal Lights, Ceiling Fans, Programmable Thermostats, Indoor and Outdoor Timers, and home energy audits through the Residential Energy Efficiency Program (REEP).

Below is a summary of items redeemed through the coupon program.

Energy Saving Technology	Number of Participants
Compact Florescent Bulbs	1,246
LED Seasonal Lights	326
Programmable Thermostats (all types)	83
Timers – Outdoor	44
Timers – Indoor	19
Ceiling Fans	51
Home Energy Audits – see note	76

The Home Energy Audits were administered though REEP, and although part of the coupon program, the results do not appear in the *SeeLine* Report.

The energy savings on the coupon item were determined using the OEB guidelines. Direct product cost, incentive cost and administration costs were also compiled. Of all the programs initiated by Westario, this had the only net positive TRC.

The energy audits are difficult to assess, as one cannot show energy savings unless a follow-up audit is performed. We anticipate that the energy audits will prove successful once the follow-ups are completed. At this time, no follow-ups have been completed.

Expenditures to end of 2005: \$18,627

3. Educational and Promotional Materials

The intent of this program is to encourage and foster a culture of conservation. Westario Power utilized both internal and external resources to promote the message of conservation. From within, we provided energy saving promotional materials to our customers in our billing envelopes. Further, using the resources of the CHEC group we were able to promote a common message.

As with any promotion campaign, direct energy savings cannot be calculated. However, the purpose of public education and promotion is to raise awareness. In time, these issues will become part of a societal and cultural expectation to conserve energy.

Expenditures to end of 2005: \$9,198

4. Energy Conservation Web Site

As above, the intent of this program is to encourage and foster a culture of conservation. Westario Power partnered with the CHEC Group to launch this web site. In the net



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generation, the website offers an opportunity to reach surfers looking to answer their conservation questions.

The CHEC members shared web page development and maintenance costs. Leveraging combined financial resources to produce one conservation website allowed a more thorough development than would have been achieved if each LDC had attempted the initiative separately. This permitted the CHEC group to provide a well-developed, user-friendly site for conversation, and energy saving ideas.

As above, direct energy savings cannot be calculated. However, the purpose of the web site is public education and to raise awareness. In time, conservation will become part of a societal and cultural expectation.

Expenditures to end of 2005: \$15,337

Evaluation of the C&DM Plan

- In terms of gains, the only project that has quantifiable, net positive returns is the ENERconnect Discount Coupon Program. Direct costs and incentive costs, and energy saving costs can be calculated. The other programs, while we feel were successful, would show no net savings in the present TRC model. This is not to suggest these programs were not constructive, but rather, the TCR model is not capable of indicating benefits for these initiatives.
- The Smart Meter Project is a joint project with the OUSM. Expected savings from Smart Meter technologies will be determined when a working cost model has been developed. We await the OEB's finalized specification.
- Educational and Promotional Materials cannot be quantified. As with any public awareness campaign, no direct energy savings can be attributed to this program. However, that does not make the objectives of public awareness invalid. Without actively raising public knowledge and awareness, all other campaigns will meet with limited success.
- Conservation Web Site. As above, no direct energy savings can be attributed to this program. The World Wide Web allows the Westario Power another venue for public awareness of energy conservation.
- Home Energy Audits. The Residential Energy Efficiency Program has also not provided any direct benefit. The purpose of this program is to provide to homeowners the opportunity to have a consultant come and demonstrate realistic and achievable energy saving undertakings in their homes. Ultimately, it is the actions of the homeowners who will determine if any energy savings will be attained.
- Reporting from *SeeLine* has been slow. We feel that we would have benefited from more timely reporting of the data.
- Reporting from the REEP program has been slow. We have not had an update or status report since 2005.
- The TRC model is complicated. It is sometimes difficult to determine if the data has been input correctly. There are many factors to include, and just as many to not include. The CHEC group has benefited from the outstanding consulting services of Mr. Gordon Eamer. The LDCs would benefit from having a more streamlined and less cumbersome TRC model.

Appendix 16 - Westario Appendix A - Evaluation of the CDM Plan

	Total	Residential	Commercial	Institutional	Industrial	Agricultural	LDC System	Smart Meters	Other 2	Other 3	Other 4
Net TRC value (\$):	-\$51,193	\$35,570						-\$86,763			
Benefit to cost ratio:	0.608	1.809									
Number of participants or units delivered:	2075	1950						125			
Total KWh to be saved over the lifecycle of the plan (kWh):	1,721,480.00	1,721,480.00									
Total in year kWh saved (kWh):	178,825.00	178,825.00									
Total peak demand saved (kW):											
Total kWh saved as a percentage of total kWh delivered (%):	0.085%										
Peak kW saved as a percentage of LDC peak kW load (%):											
Gross in year C&DM expenditures (\$):	\$129,926	\$43,163						\$86,763			
Expenditures per KWh saved (\$/kWh)*:	0.0755	0.0251									
Expenditures per KW saved (\$/kW)**:											

Utility discount rate (%):

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

8.57

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. Name of the Program: 2005 Lighten Your Electricity Bill Program

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

Westario participated with 31 other LDCs in a fall campaign with Canadian Tire. EnegyShop.com ran the program that was aimed providing energy savings coupons to residential customers. The program was designed to increase both public awareness of energy conservation and to increase the purchase of energy efficient product. The program results was quantified by tracking the coupons redeemed.

Measure(s):

	measure(s).							
		CFL		Seasonal LED	Programmable Therm.	Timers	Ceiling Fans	EnerGuide
	Base case technology:	Incandescent Bulb	5 W ar	nd mini lights	None programmable	No timers	None	None
	Efficient technology:	CFL	LED		Programmable Therm.	Timers	Fan	Audit
	Number of participants or units delive	124	46 326		83		63 51	76
	Measure life (years):	4	.4 30		18		20 20	25
D						_		
В.	TRC Results:		•	70 554 00				
	TRC Benefits (\$):		\$	79,551.00				
	TRC Costs (\$):							
		Jtility program cost (less incentives): \$	9,269.00				
		Participant cos	t: \$	10,176.00				
		Total TRC cost	's: \$	19,445.00				
	Net TRC (in year CDN \$):		\$	60,106.00				
	Benefit to Cost Ratio (TRC Benefits/	TRC Costs):	\$	4.09				
C.	Results: (one or more category may	apply)				_		
	(0.00 0.0000 0000 get))							
	Conservation Programs:							
	Conservation Programs: Demand savings (kW):	Summer						
		Winter		in vear				
	Demand savings (kW):	Winter lifecycle	00	in year 178.825.00				
	Demand savings (kW): Energy saved (kWh):	Winter	0	<i>in year</i> 178,825.00				
	Demand savings (kW): Energy saved (kWh): Other resources saved :	Winter lifecycle 1,721,480.0	10					
	Demand savings (kW): Energy saved (kWh):	Winter lifecycle 1,721,480.0	10					

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):

			, appendix re
Peak hours dispatched in yea	ar (hours):		
Power Factor Correction Pr	rograms:		
Amount of KVar installed (KV			
Distribution system power fac	,		
Distribution system power fac			
Line Lees Deduction Draw			
Line Loss Reduction Progra			
Peak load savings (kW):	lifecycle		in year
Energy savngs (kWh):	mecycie		iii yeai
	Load Displacement Programs:		
Amount of DG installed (kW):			
Energy generated (kWh): Peak energy generated (kWh	a).		
	17.		
3 , 3			
Fuel type:			
Fuel type: Other Programs (specify):			
Fuel type:			
Fuel type: Other Programs (specify):			
Fuel type: <u>Other Programs (specify):</u> Metric (specify):	Incremental capital:	\$	4,437.00
Fuel type: <u>Other Programs (specify):</u> <i>Metric (specify):</i> <u>Program Costs*:</u>	Incremental capital: Incremental O&M:	\$ \$	4,437.00 4,832.00
Fuel type: <u>Other Programs (specify):</u> <i>Metric (specify):</i> <u>Program Costs*:</u>			
Fuel type: <u>Other Programs (specify):</u> Metric (specify): <u>Program Costs*:</u>	Incremental O&M:	\$	4,832.00
Fuel type: Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$):	Incremental O&M: Incentive: Total:	\$ \$	4,832.00 9,358.00
Fuel type: <u>Other Programs (specify):</u> Metric (specify): <u>Program Costs*:</u>	Incremental O&M: Incentive: Total: Incremental capital:	\$ \$	4,832.00 9,358.00
Fuel type: Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$):	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	\$ \$	4,832.00 9,358.00
Fuel type: Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$):	Incremental O&M: Incentive: Total: Incremental capital:	\$ \$	4,832.00 9,358.00
Fuel type: Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$): Utility indirect costs (\$):	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	\$ \$	4,832.00 9,358.00
Fuel type: Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$):	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total: Incremental equipment:	\$ \$ \$	4,832.00 9,358.00 18,627.00
Fuel type: Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$): Utility indirect costs (\$):	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	\$ \$	4,832.00 9,358.00

Ε.

Comments:		

Spread Sheet to convert SeeLine Results into Table B

178,825.00 1,721,480.00

Table 1 Enter Numbers from SeeLine

	Number of		Summer	Annual kWh	Measure	Lifecycle kWh
Technology	Participants	Free Ridership	Peak Saving	Savings	Life	Savings
CFL	1246	10%	0	117,027.00	4	468,108.00
LED Xmas Lights Replacing 5W, C7 (25 Lights)	163	10%	0	6,891.00	30	206,730.00
LED Xmas Lights Replacing Mini Lights	163	10%	0	2,637.00	30	79,110.00
Programmable Thermostat - Space Heating,						
Existing Single Family Detached	23	10%	0	30,365.00	18	546,570.00
Programmable Thermostat - Space Cooling,						
Existing Single Family Detached	60	10%	3.5	8,569.00	18	154,242.00
Timer - Outdoor Light	44	10%	0	11,563.00	20	231,260.00
Timer - Indoor - Light	9	10%	0.21	794.00	20	15,880.00
Timer - Indoor - Air Conditioners	10	10%	0.63	979.00	20	19,580.00
Ceiling Fans	51	10%	0	-	20	=
EnerGuide for Existing Homes - Space Heating	76	10%	0	-	25	-
Total				178,825.00		1,721,480.00

Table 2 Enter Numbers for SeeLine

Table 2 Enter Numbers for SeeLine					Program Cost											1			
					Utility Cost Participant Costs									sts					
														Partici	pants	Partic	ipants		
			Incre	emental	Dire	ct Costs	Dire	ect Costs	Non-		Indirect Cost	Indire	ect Cost	Cost		Cost		Re	ebate
			Equi	ipment	Incre	emental			Increme	ent	Incremental		mental	Increm	ental	Increi	nental	pa	aid by
Technology	TRC	Benefits	Cos	ts	Cap	ital	0&1	M	al Cost		Capital	O&M		Equipr	nent	O&M		U	Jtility
CFL	\$	28,520	\$	2,242	\$	-	\$	-	\$-		\$-	\$	-	\$	-	\$	-	\$	-
LED Xmas Lights Replacing 5W, C7 (25 Lights)	\$	6,414	\$	310	\$	-	\$	-	\$ -		\$-	\$	-	\$	-	\$	-	\$	I
LED Xmas Lights Replacing Mini Lights	\$	2,455	\$	310	\$	-	\$	-	\$ -		\$-	\$	-	\$	-	\$	-	\$	I
Programmable Thermostat - Space Heating,																			
Existing Single Family Detached	\$	20,813	\$	1,242	\$	-	\$	-	\$-		\$-	\$	-	\$	-	\$	-	\$	-
Programmable Thermostat - Space Cooling,																			
Existing Single Family Detached	\$	10,377	\$	3,232	\$	-	\$	-	\$-		\$-	\$	-	\$	-	\$	-	\$	-
Timer - Outdoor Light	\$	8,595	\$	792	\$	-	\$	-	\$-		\$-	\$	-	\$	-	\$	-	\$	-
Timer - Indoor - Light	\$	841	\$	57	\$	-	\$	-	\$ -		\$-	\$	-	\$	-	\$	-	\$	I
Timer - Indoor - Air Conditioners	\$	1,536	\$	63	\$	-	\$	-	\$-		\$-	\$	-	\$	-	\$	-	\$	1
Ceiling Fans	\$	-	\$	1,928	\$	-	\$	-	\$-		\$-	\$	-	\$	-	\$	-	\$	-
EnerGuide for Existing Homes - Space Heating	\$	-	\$	-	\$	-	\$	-	\$ -		\$-	\$	-	\$	-	\$	-	\$	-
Program Costs	\$	-	\$	-	\$	4,437	\$	-	\$-		\$-	\$	-	\$	-	\$	-	\$	-
	\$	-																	
Total	\$	79,551	\$	10,176	\$	4,437	\$	4,832	\$-		\$-	\$	-	\$	-	\$	-	\$	9,358

TRC Results:

TRC Benefits (\$):		\$ 79,551
Measure's Costs (\$):		
	Utility program cost (less incentives):	\$ 9,269
	Participant cost:	\$ 10,176
	Total TRC costs:	\$ 19,445
Net TRC (in year CDN \$):		\$ 60,106
Benefit to Cost Ratio (TRC Ben	efits/TRC Costs):	4.09
Conservation Programs: Demand savings (kW):	Summer Winter	10.82 F

Program was designed for conservation - peak not reported.

Program Costs*:

Energy saved (kWh): Annual kWh Lifecycle kWh

<u>Program Costs*:</u> Utility direct costs (\$):	Incremental capital:	\$ 4,437
	Incremental O&M:	\$ 4,832
	Incentive:	\$ 9,358
	Total:	\$ 18,627
Utility indirect costs (\$):	Incremental capital:	\$ -
	Incremental O&M:	\$ -
	Total:	\$ -
Total Utility Cost of Program		\$ 18,627
Participant costs (\$):	Incremental equipment:	\$ -
	Incremental O&M:	\$ 10,176
	Total:	\$ 10.176

Appendix B - Discussion of the Program

(complete this section for each program)

A. Name of the Program: conservation website

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

conservation website, jointly with CHEC group

Measure(s):

measure(s).						
	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6
Base case technology:	no website	no website	0.00	0.00	0.00	0.00
Efficient technology:	live website	conservation website	0.00	0.00	0.00	0.00
Number of participants or units						
delivered:	125.00	0.00	0.00	0.00	0.00	0.00
Measure life (years):	0.00	0.00	0.00	0.00	0.00	0.00
B. TRC Results:						

0 0

Into Results.		
TRC Benefits (\$):		\$ -
Measure's Costs (\$):		
Utility program cos	st (less incentives):	\$ 15,337.84
	Participant cost:	\$ 0.00
	Total TRC costs:	\$ 15,337.84
Net TRC (in year CDN \$):		-\$15,337.84

0.00

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

C. <u>Results:</u> (one or more category may apply)

Conservation Programs:

Demand savings (kW):	Summer Winter		0.00 0.00	
	lifecycl		in year	
Energy saved (kWh):	0.00	5	0.00	
Other resources saved :				
Natural Gas (m3):		0		0
Water (I)		0		0
Expenditures per kWh Saved (\$/kWh)	#DIV/0)!		
Expenditures per kW Saved (\$/kW)	#DIV/0)!		
Demand Management Programs:				
Controlled load (kW)				

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:

0

0

Dispatchable load (kW): Peak hours dispatched in year (he	ours):			
Power Factor Correction Progra	,			
Amount of KVar installed (KVar):	ans.			
Distribution system power factor a	at begining of year (%):			
Distribution system power factor a				
Distribution system power factor a	at end of year (%).			
Line Loss Reduction Programs				
Peak load savings (kW):	-			
r our loud ouvingo (http:	lifecycle		in year	
Energy savngs (kWh):				
Energy duringe (norm).				
Distributed Generation and Loa	d Displacement Programs:			
Amount of DG installed (kW):				
Energy generated (kWh):				
Peak energy generated (kWh):				
Fuel type:				
Other Programs (specify):				
Other Programs (specify): Metric (specify): Program Costs*:				
Other Programs (specify): Metric (specify):	Incremental capital:	\$	0.00	
Other Programs (specify): Metric (specify): Program Costs*:	Incremental O&M:	\$ \$		
Other Programs (specify): Metric (specify): Program Costs*:	•	\$	0.00	
Other Programs (specify): Metric (specify): Program Costs*:	Incremental O&M:	\$ \$	0.00 15,337.84	
Other Programs (specify): Metric (specify): Program Costs*:	Incremental O&M: Incentive:	\$ \$ <u>\$</u>	0.00 15,337.84 -	
Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$):	Incremental O&M: Incentive: Total:	\$ \$ \$ \$	0.00 15,337.84 - 15,337.84	
Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$):	Incremental O&M: Incentive: Total: Incremental capital:	\$ \$ \$ \$	0.00 15,337.84 - 15,337.84 0.00	
Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$):	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	\$ \$ \$ \$ \$	0.00 15,337.84 - 15,337.84 0.00 0.00	
Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$):	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	\$ \$ \$ \$ \$	0.00 15,337.84 - 15,337.84 0.00 0.00	
Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$): Utility indirect costs (\$): Total Utility Cost of Program	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	\$ \$ \$ \$ \$ \$ \$ \$	0.00 15,337.84 - 15,337.84 0.00 0.00 0.00	
Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$): Utility indirect costs (\$):	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	\$ \$ \$ \$ \$ \$ \$ \$ \$	0.00 15,337.84 - 15,337.84 0.00 0.00 0.00 15,337.84	
Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$): Utility indirect costs (\$): Total Utility Cost of Program	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total: Incremental equipment: Incremental O&M:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.00 15,337.84 - 15,337.84 0.00 0.00 15,337.84 0.00 0.00	
Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$): Utility indirect costs (\$): Total Utility Cost of Program	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total: Incremental equipment:	\$ \$ \$ \$ \$ \$ \$ \$ \$	0.00 15,337.84 - 15,337.84 0.00 0.00 0.00 15,337.84 0.00	
Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$): Utility indirect costs (\$): Total Utility Cost of Program	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total: Incremental equipment: Incremental O&M:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.00 15,337.84 - 15,337.84 0.00 0.00 15,337.84 0.00 0.00	

*Please refer to the TRC Guide for the treatment of equipment cost in the TRC Test.

Appendix B - Discussion of the Program

(complete this section for each program)

A. Name of the Program: promotion and education

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

promotion and education packages to Westario Customers

Measure(s):

		Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6
	Base case technology:	no promotion	no website	0.00	0.00	0.00	0.00
	Efficient technology:	0	conservation website	0.00	0.00	0.00	0.00
	Number of participants or units						
	delivered:	125.00	0.00	0.00	0.00	0.00	0.00
	Measure life (years):	0.00	0.00	0.00	0.00	0.00	0.00
В.	TRC Results:						
	TRC Benefits (\$):		\$ -				
	Measure's Costs (\$):						
		Utility program cost (less incentives):	\$ 9 198 05	0			

0

Utility program co	st (less incentives):	\$	9,198.05
	Participant cost:	\$	0.00
	Total TRC costs:	\$	9,198.05
Net TRC (in year CDN \$):			-\$9,198.05
Benefit to Cost Ratio (TRC Benefits/TRC Costs):		0.00	

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

C. <u>Results:</u> (one or more category may apply)

Conservation Programs:

Demand savings (kW):	Summer Winter		0.00 0.00	
	lifecyd	le	in ye	ar
Energy saved (kWh):	0.00)	0.0	C
Other resources saved :				
Natural Gas (m3):		0		0
Water (I)		0		0
Expenditures per kWh Saved (\$/kWh)	#DIV	0!		
Expenditures per kW Saved (\$/kW)	#DIV	0!		
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:

0

0

Dispatchable load (kW): Peak hours dispatched in year	(hours):			
Power Factor Correction Pro Amount of KVar installed (KVar Distribution system power facto Distribution system power facto	r): pr at begining of year (%):			
Line Loss Reduction Program Peak load savings (kW):	ns.			
r cak load savings (kw).	lifecycle		in year	
Energy savngs (kWh):				
Distributed Generation and L	oad Displacement Programs:			
Amount of DG installed (kW):				
Energy generated (kWh):				
Peak energy generated (kWh):				
Peak energy generated (kWh): Fuel type: Other Programs (specify): Metric (specify):				
Fuel type: <u>Other Programs (specify):</u> Metric (specify): <u>Program Costs*:</u>				
Fuel type: <u>Other Programs (specify):</u> Metric (specify):	Incremental capital: Incremental O&M:	\$	0.00 9,198.05	
Fuel type: <u>Other Programs (specify):</u> Metric (specify): <u>Program Costs*:</u>	Incremental capital:	\$	0.00	
Fuel type: <u>Other Programs (specify):</u> Metric (specify): <u>Program Costs*:</u>	Incremental capital: Incremental O&M:	\$ \$	0.00 9,198.05	
Fuel type: <u>Other Programs (specify):</u> Metric (specify): <u>Program Costs*:</u>	Incremental capital: Incremental O&M: Incentive:	\$ \$ \$	0.00 9,198.05 -	
Fuel type: <u>Other Programs (specify):</u> Metric (specify): <u>Program Costs*:</u> Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total:	\$ \$ \$ \$ \$	0.00 9,198.05 - 9,198.05	
Fuel type: <u>Other Programs (specify):</u> Metric (specify): <u>Program Costs*:</u> Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital:	\$ \$ \$ \$	0.00 9,198.05 - 9,198.05 0.00	
Fuel type: Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	\$ \$ \$ \$ \$	0.00 9,198.05 - 9,198.05 0.00 0.00	
Fuel type: Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$): Utility indirect costs (\$):	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	\$ \$ \$ \$ \$	0.00 9,198.05 - 9,198.05 0.00 0.00 0.00	
Fuel type: Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$): Utility indirect costs (\$): Total Utility Cost of Program	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total: Incremental equipment: Incremental O&M:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0.00 9,198.05 	
Fuel type: Other Programs (specify): Metric (specify): Program Costs*: Utility direct costs (\$): Utility indirect costs (\$): Total Utility Cost of Program	Incremental capital: Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total: Incremental equipment:	\$ \$ \$ \$ \$ \$ \$ \$ \$	0.00 9,198.05 - 9,198.05 0.00 0.00 0.00 9,198.05 0.00	

*Please refer to the TRC Guide for the treatment of equipment cost in the TRC Test.

Appendix B - Discussion of the Program

(complete this section for each program)

A. Name of the Program: smart meter project

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

Pilot project, smart meters

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6
Base case technology:	conventional meter	no website	0.00	0.00	0.00	0.00
Efficient technology:	smart meter	conservation website	0.00	0.00	0.00	0.00
Number of participants or units						
delivered:	125.00		0.00	0.00		
Measure life (years):	0.00	0.00	0.00	0.00	0.00	0.0
TRC Results:						
TRC Benefits (\$):		\$ -				
Measure's Costs (\$):		Ŷ				
	Utility program cost (less incentives):	\$ 86,763.31	0			
	Participant cost:	· · · · · · · · · · · · · · · · · · ·	0			
	Total TRC costs:					
Net TRC (in year CDN \$):		-\$86,763.31				
Benefit to Cost Ratio (TRC Benefits/	TRC Costs):	0.00				
Des las /						
Results: (one or more category may	apply)					
<u>Results:</u> (one or more category may <u>Conservation Programs:</u>	apply)					
	Summer	0.00				
Conservation Programs:	Summer	0.00				
Conservation Programs:	Summer					
Conservation Programs: Demand savings (kW): Energy saved (kWh):	Summer Winter	0.00				
Conservation Programs: Demand savings (kW):	Summer Winter lifecycle	0.00 in year				
Conservation Programs: Demand savings (kW): Energy saved (kWh):	Summer Winter lifecycle 0.00	0.00 in year 0.00 0				
Conservation Programs: Demand savings (kW): Energy saved (kWh): Other resources saved :	Summer Winter lifecycle 0.00	0.00 in year 0.00 0				
Conservation Programs: Demand savings (kW): Energy saved (kWh): Other resources saved : Natural Gas (m: Water	Summer Winter 0.00 3): 0 (I) 0	0.00 in year 0.00 0				
Conservation Programs: Demand savings (kW): Energy saved (kWh): Other resources saved : Natural Gas (m: Water Expenditures per kWh Saved (\$/kWh	Summer Winter 0.00 3): 0 (/) 0) #DIV/0!	0.00 in year 0.00 0				
Conservation Programs: Demand savings (kW): Energy saved (kWh): Other resources saved : Natural Gas (m: Water	Summer Winter 0.00 3): 0 (I) 0	0.00 in year 0.00 0				
Conservation Programs: Demand savings (kW): Energy saved (kWh): Other resources saved : Natural Gas (m: Water Expenditures per kWh Saved (\$/kWh Expenditures per kW Saved (\$/kWh	Summer Winter 0.00 3): 0 (/) 0) #DIV/0!	0.00 in year 0.00 0				
Conservation Programs: Demand savings (kW): Energy saved (kWh): Other resources saved : Natural Gas (m: Water Expenditures per kWh Saved (\$/kWh Expenditures per kW Saved (\$/kW) Demand Management Programs:	Summer Winter 0.00 3): 0 (/) 0) #DIV/0!	0.00 in year 0.00 0				
Conservation Programs: Demand savings (kW): Energy saved (kWh): Other resources saved : Natural Gas (m: Water Expenditures per kWh Saved (\$/kWh Expenditures per kW Saved (\$/kW) Demand Management Programs: Controlled load (kW)	Summer Winter 1/fecycle 0.00 3): 0 (/) 0 (/) 0 (/) #DIV/0! #DIV/0!	0.00 in year 0.00 0				
Conservation Programs: Demand savings (kW): Energy saved (kWh): Other resources saved : Natural Gas (m: Water Expenditures per kWh Saved (\$/kWh Expenditures per kW Saved (\$/kW) Demand Management Programs: Controlled Ioad (kW) Energy shifted On-peak to Mid-peak	Summer Winter 1ifecycle 0.00 3): 0 (/) 0) #DIV/0! #DIV/0! (kWh):	0.00 in year 0.00 0				
Conservation Programs: Demand savings (kW): Energy saved (kWh): Other resources saved : Natural Gas (m: Water Expenditures per kWh Saved (\$/kWh Expenditures per kW Saved (\$/kW) Demand Management Programs: Controlled load (kW)	Summer Winter lifecycle 0.00 3): 0 (/) 0 #DIV/0! #DIV/0! (kWh): kWh):	0.00 in year 0.00 0				

Demand Response Programs:

0

0

Peak hours dispatched in year (he	ours):		
Power Factor Correction Progra	ams:		
Amount of KVar installed (KVar):			
Distribution system power factor a	at begining of year (%):		
Distribution system power factor a	at end of year (%):		
Line Loss Reduction Programs	:		
Peak load savings (kW):	-		
0 ()	lifecycle		in year
Energy savngs (kWh):			,
Distributed Generation and Loa	d Displacement Programs:		
Amount of DG installed (kW):			
Energy generated (kWh):			
Peak energy generated (kWh):			
Fuel type:			
ruertype.			
Other Programs (specify):			
Metric (specify):			
Program Costs*:			
Program Costs*: Utility direct costs (\$):	Incremental capital:	\$	30,345.94
	Incremental capital: Incremental O&M:	\$ \$	30,345.94 56,417.37
	•		
	Incremental O&M:	\$	56,417.37
Utility direct costs (\$):	Incremental O&M: Incentive:	\$ <u>\$</u> \$	56,417.37 - 86,763.31
	Incremental O&M: Incentive:	\$ <u>\$</u>	56,417.37 - 86,763.31 0.00
Utility direct costs (\$):	Incremental O&M: Incentive: Total:	\$ <u>\$</u> \$	56,417.37 - 86,763.31
Utility direct costs (\$):	Incremental O&M: Incentive: Total: Incremental capital:	\$ <u>\$</u> \$	56,417.37 - 86,763.31 0.00
Utility direct costs (\$): Utility indirect costs (\$):	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	\$ <u>\$</u> \$ \$	56,417.37 - 86,763.31 0.00 0.00 0.00
Utility direct costs (\$):	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	\$ \$ \$ \$ \$	56,417.37 - 86,763.31 0.00 0.00
Utility direct costs (\$): Utility indirect costs (\$):	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	\$ \$ \$ \$ \$	56,417.37 - 86,763.31 0.00 0.00 0.00
Utility direct costs (\$): Utility indirect costs (\$): Total Utility Cost of Program	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total:	\$ <u>\$</u> \$ \$ \$ \$	56,417.37
Utility direct costs (\$): Utility indirect costs (\$): Total Utility Cost of Program	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total: Incremental equipment:	\$ <u>\$</u> \$ \$ \$ \$	56,417.37 - 86,763.31 0.00 0.00 0.00 86,763.31 0.00
Utility direct costs (\$): Utility indirect costs (\$): Total Utility Cost of Program	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M: Total: Incremental equipment: Incremental O&M:	\$ <u>\$</u> \$ \$ \$ \$ \$	56,417.37 - 86,763.31 0.00 0.00 86,763.31 0.00 0.00

*Please refer to the TRC Guide for the treatment of equipment cost in the TRC Test.