



## Cornerstone Hydro Electric Concepts Association Inc.

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

#### Conservation and Demand Management 2006 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 2006. 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. In 2006 the CHEC group worked both individually and collectively to delivery CD&M programs. The individual reports from each utility provides to the reader a better understanding of the activity and focus of each utility while this summary report provides an overview of the impact of this combined effort.

In 2006 the level of activity varied significantly from member to member dependent on their remaining funds, resources and opportunities. Individual LDC activity level ranged from only being involved in "provincially led" initiatives to the development and delivery of a wide variety of programs. From a review of the programs it is interesting to note how opportunities, partnerships and delivery have matured at different rates in the different service territories.

Within the 16 utilities there have been a total of 104 initiatives worked on in 2006. As in the first year the initiatives represent projects specific to individual utilities and projects that are cooperative efforts between utilities or agencies (the OPA EKC Programs for example). While there were 104 initiatives included in the reporting many of the reports contained a number of separate activities joined in one Appendix B.

After the initial year where much of the ground work for future programs was started, one would expect that the majority of programs would be driving a positive TRC. On the population of 104 initiatives, 43% had a positive TRC. This low percentage of initiatives with a positive TRC indicates that many initiatives continued to focus on education, studies to prepare customers for

continued energy conservation and partnership building in the second year of the CDM program.

With the activity and experience gained in 2006 the CDM industry is moving towards the final year of third tranche funding and towards the new funding model. While the funding method will change the fundamental knowledge gained in delivering two years of CDM programming has proven and will continue to prove invaluable as programs continue to be offered to residential, commercial and industrial customers across the province.

This combined report, in addition to meeting the regulatory requirement, provides a comprehensive summary to CHEC members of the impact of their combined effort.

#### 2.0 CHEC Members:

The 2006 Annual Report on Conservation and Demand Management Activities of the following utilities are included in this report:

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

## **3.0 Evaluation of the CDM Plan:**

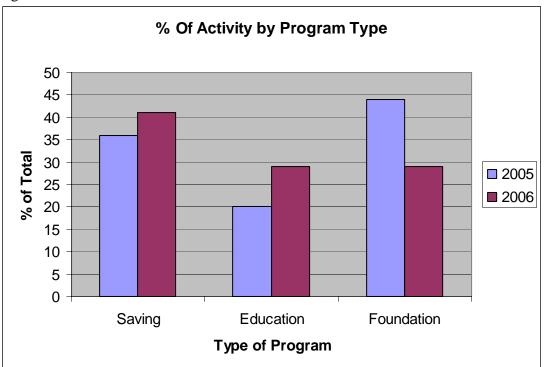
**Total Portfolio:** The 16 CHEC members collectively undertook a total of 104 initiatives. These programs fell within three categories:

- 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. This is a category that one might have expected to see reduced activity however it continues to be a major component.

The 2006 initiatives represent a total energy savings (lifecycle) of 129,330,000 kWh at a combined "Utility Cost" of \$1,185,000 or approximately 1 c/kWh. This low cost of energy saved was achieved while continuing the education and foundation building programs. To put the energy savings in perspective the 129 Million kWh represent the annual energy required by 10,700 homes (at 1000

kWh/month). Comparing this to incandescent bulbs the energy saved is equivalent to removing approximately 1.5 Million, 60 W incandescent bulbs operating 4 hours per day for a year.

Figure 1 illustrates the change in program makeup from 2005 to 2006. The percentage of programs focused on "saving" and "education" have increased while the number of foundation" programs have decreased. The reduced focus on "foundation" programs in the second year is to be expected as the program mature and initiatives move from planning to delivery thereby increasing the number of "savings" and 'education' initiatives. Many "foundation" programs continue into the third year and will form the basis for conservation activities beyond third tranche by both utilities and their partners.





While the Figure provides a general breakdown it should be noted that there are many education programs that are now incorporating savings into the deliverables. The ability to incorporate savings and education provides an immediate conservation benefit, a positive TRC for the program and sets the stage for continued customer interest in conservation in the future.

**Savings Programs:** Programs were initiated both at the local and provincial level. Key to the 2006 results was the active participation of CHEC members in the OPA Every Kilowatt Counts programs. These programs in many instances provided a "savings" and "education" program that members could support without depleting their third tranche funding.

On the local level savings programs focused on local partnerships and delivery channels. Projects like municipal traffic light conversion built on the existing relationship with the municipality, provided benefits to the entire community and once installed ensured that the technology would remain in place once the benefits of lower cost and maintenance were recognized.

The use of product incentives and give-a-ways continued to play a significant role in the local programming. Capitalizing on the ability to participate in local events the provision of energy efficient product was a direct method of demonstrating the technology to the customer.

System optimization projects continue to be included in the portfolio. Nine initiatives focused on either completing the studies associated with system optimization or the implementation of field changes. System optimization continues to be an area for potential savings.

**Education Programs:** LDC's started to see opportunities to partner with others to provide programs into the education system. CHEC members along with other utilities in the service territory of Boards of Education are funding the development of programs for delivery in the schools. During 2006 third party providers (in many instances not-for-profits) made approaches to members for support and delivery of programs. As the conservation culture continues to develop the resources to provide this type of education will most likely continue to increase. The third tranche funding and the LDCs interest in partnering have helped this process.

Members have also been active in supporting education programs for the commercial and industrial sector. The challenge to date has been evaluating the results of this training. In most cases the proof of success is mostly anecdotal where mention is made of actions taken as a result of the training without any firm data. For this reason most education initiatives in this sector do not show a positive TRC.

**Foundation Program:** Many of the "foundation" type programs underway during 2006 were aimed at providing information to partners for further action. The CHEC members have actively supported alternate energy initiatives with a number of projects specific to these types of initiatives. The support provided at this stage, on the local level, can be pivotal on the success of future activities by community based groups.

In 2005 the "foundation" programs included initiatives such as: system optimization studies, smart meter preparation, customer audits and demonstration projects. In 2006 the increase in "education" and "savings" programs in some instances were the results of the 2005 foundation work. 2005 work on system optimization was a critical precursor to the project implementation in 2006 (and

2007). In some instances the full studies will only be completed in 2007 with the impact of implementation only being taken beyond the third tranche time frame.

**Net TRC Results:** The net TRC result of the combined CHEC CDM activity for 2006 is \$3,800,000 up from \$500,000 in 2005. The increase in TRC indicates the development of the industry over the first year resulting in deliverables in the second year.

Part of the development of the CDM industry was the provincial EKC programs – a program that built on the experience gained from the 2005 program coordinated by Energyshop.com and subscribed by a number of CHEC members. The involvement of CHEC members in the EKC programs resulted in 86% of the TRC results for member LDCs. The benefits of combining local support in wider based programs are clearly demonstrated by the success of these programs.

#### 4.0 Discussion of Programs:

The individual program discussions from each utility are included in the following sections of this report. 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.

#### 5.0 Lessons Learned:

**Application of TRC:** 2005 was the introduction to the TRC tool. While the tool can be used to evaluate programs to ensure a positive TRC result in many instances the 2006 programs were set prior to experience with the tool.

The principles of TRC are generally easy to understand: energy efficiency case vs base case. However the mechanics of determining the details of the evaluation can be quite complex depending on the application. CHEC members spent considerable time ensuring the assumptions and discounted costs were properly applied. In many instances the experience of one member was utilized to assist others within the group.

One of the greatest challenges with TRC remains the carryover of familiarity with its use. While the second year of applying the TRC was a bit more familiar the application is still a challenge as the use of the tool tends to occur in discreet measures (ie to do the Annual Report).

**Funding:** CHEC members in general have funds for continued programs in 2007 (with a few exceptions). With the advent of provincial programs the ability to stretch the third tranche funding has occurred. Hence the need for additional funding based on the LDCs plan can, to a large extent, be avoided until the LDCs Funding through the OPA is available.

**Partnerships and Sharing:** The ability to partner has increased in year two of the CDM Funding. Not-for-Profit Agencies, municipalities, local groups etc. have become aware of potential for partnering and have either approached members or have been very positive to LDC initiatives. It is anticipated that the ability to partner with a wide variety of groups within our communities should continue to grow. As such, it will be an important aspect of program delivery that the LDC community will need to broach with the OPA through 2008 and beyond.

The sharing of experience and insights by CHEC members is on-going. In 2006 CHEC members had the opportunity to participate in the development of the CDM industry structure for moving forward. The perspective brought by smaller participants helps to ensure the success of program delivery across the entire province in both large and small communities.

**Customer Readiness:** The results of the 2006 programs highlights that the conservation message is starting to be understood and that residential customers will take action.

In 2007 and beyond programs will need to reach beyond the compact fluorescent light to clearly demonstrate to customers that they have a wide variety of opportunities. There may be additional challenges to overcome to move these messages forward as the cost to implement and the payback may not be as favourable.

While programs have been successful with residential customers more work is required to make inroads into the commercial and industrial sector. These sectors continue to be difficult to get actively engaged. Future programs will need to take into account the customer's limited resources, long lead times, and provide demonstrated value of conservation to their business. Experience is showing that in this sector, the progression from initial discussion, to decision, to action is slow and methodical.

**Utility Resources:** Utilities continue to utilize internal resources for much of the CDM work as it is integrated into the systems of the LDC. CDM calls received, the manager's time to promote CDM, the accountant's time to record and report, are all functions immersed in the activities of existing positions. The ability to manage these requirements as the industry moves forward will need to be addressed by LDCs.

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386

page

page

#### 6.0 Conclusion:

The second year of CDM delivered a significant increase in the kWhs saved and continues to set the stage for on-going development of the CDM industry.

LDCs continue to support CDM and the involvement at the local level. CHEC members through their local programs, involvement in provincial programs and participation in the design of the industry continue to demonstrate their support for CDM, for the provincial initiative and their customers.

### 7.0 Appendices:

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Westario Power

Woodstock Hydro Services

# GODERECH HYDRO

## Goderich Hydro Conservation & Demand Side Management Annual Report

March 22, 2007

By: Lynda Rotteau

## Introduction

This report - filed on March 22, 2007 - is a summary of Goderich Hydro's Conservation and Demand Management (CDM) projects for the period of January 1, 2006 to December 31, 2006. This time period represents the second year of Goderich Hydro's three year CDM plan.

During year two of participation in the CDM program we spent much of the year waiting on approval from the Energy Board to reallocate our funding. Due to this fact there was less accomplished than planned.

The programs we did offer were well received and utilized. The Energy Star program was very popular with a \$50 rebate for new window installation.

## Evaluation

## Energy Star Rebate Program

Energy Star Rebate Program was utilized to the full extent of the budgeted amount. Although this \$50 rebate is a small portion of the cost of a window it does encourage people to ensure that their new windows meet the standards required to save energy. It is calculated that the TRC Benefit from this program is \$28,294.23

## Commercial Energy Efficiency Rebate Program

New LED Exit signs were purchased for use in all Municipal buildings and will be utilized as older style bulbs burn out. The estimated TRC benefit is \$7604.44 over the life of the bulbs. We are trying to lead by example and promote this style of lighting to our commercial customers.

## Energy Conservation Web Site

No work was done in 2006 on the Energy Conservation Web Site.

## Portfolio Costs

There was no one in the Environmental position from August to December of 2006 so the costs were minimal and absorbed in the general Goderich Hydro budget.

## Voluntary Black Out Day

The Mayor of Goderich Delbert Shewfelt picked up the conservation challenge issued by Woodstock Ontario to participate in a "Voluntary Blackout Day" aimed at reducing energy use in Goderich by 4% on August 13<sup>th</sup>

## Lessons Learned

## Energy Star Rebate Program

This program is the most popular and reaches the most customers. In 2007 we will be offering rebates for the purchase of Energy Star Air Conditioners and Dehumidifiers.

## Energy Conservation Web Site

In 2007 we will utilize the remainder of our funding to enhance the web site.

## **Education and Promotion**

The remaining funding will be used for billing inserts encouraging our customers to utilize coupons received through the Every Kilowatt Counts Campaign.

## Light Bulb Giveaway/Timers

Coupons for this program will be available in 2007 at local retailers to reduce the cost of these products.

## Street Light Retrofit

In 2007 new LED street lights are being installed on one of our streets that has been monitored for hydro use in 2006. At the end of the year a cost saving will be analyzed and over time other street lights will be upgraded.

## Conclusion

During year two of Goderich Hydro's CDM plan, we had many challenges with waiting for the Energy Board approval for the first six months and loosing the employee in charge for the last six months. It is hoped that 2007 will be more productive. Goderich Hydro will fulfill its obligation to complete the program and are also participating in the Every Kilowatt Counts Spring Campaign.

With regards to project penetration, this report highlights two methods that should be repeated in the future. The combination of bill inserts and financial incentives were extremely instrumental in encouraging customer uptake.

Overall, year two CDM projects forged several valuable contacts and partnerships. Projects also encouraged a strong teamwork ethic amongst staff from Goderich Hydro and the Town of Goderich.

Membership in CHEC was instrumental in developing and maintaining these bonds. In particular, Goderich Hydro looks forward to feedback from fellow CHEC members.

Combined, our year two reports are an invaluable source of information and support that will ensure a sound foundation for future projects

In year three the lessons learned will be utilized to ensure that our customers are receiving the incentive and education necessary to become a conserver community.

## 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 (\$):	20176.34895	\$ 23,819	\$ 19,842	\$ 3,977	\$-	\$-	\$-	\$-		\$-	\$-
Benefit to cost ratio:	1.72	2.97	3.35	2.10	0.00	0.00	0.00	0.00		0.00	0.00
Number of participants or units delivered:	2,996	2,618	2,582	36	0	0	0	0		0	0
Lifecycle (kWh) Savings:	1300955.875	1,027,457	835,001	192,456	0	0	0	0		0	0
Report Year Total kWh saved (kWh):	68329.283	41,064	33,400	7,664	0	0	0	0		0	0
Total peak demand saved (kW):	33.95	28	27	1	0	0	0	0		0	0
Total kWh saved as a percentage of total kWh delivered (%):		0.16%	0%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Peak kW saved as a percentage of LDC peak kW load (%):		0%	0%	0%	0%	0%	0%	0%		0%	0%
Report Year Gross C&DM expenditures (\$):	///.5.5.5/	\$ 6,952	\$ 6,403	\$ 549	\$-	\$-	\$-	\$-	\$-	\$-	\$-
2 Expenditures per KWh saved (\$/kWh):	0.016	0.007	0.008	\$ 0.00	\$-	\$-	\$-	\$-		\$-	\$-
₃ Expenditures per KW saved (\$/kW):		\$ 251.54	\$ 239.24	\$ 628.01	\$-	\$-	\$-	\$-		\$-	\$-
	-			·	•	•	•	•	•	•	

1 Expenditures are reported on accrual basis.

Utility discount rate (%)

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

8.56

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

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

## **Appendix C - Program and Portfolio Totals**

#### **Report Year:**

#### **1. Residential Programs**

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

Note: To ensure the integrity of the	C Benefits (PV)	Costs (PV)	:	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Gr	eport Year oss C&DM penditures (\$)
Energy Conservation Website	\$ -	\$ -	\$	-	0.00	0	0	0	\$	-
Coupon Program - 2005 Lighten You	\$ -	\$ 1,300	-\$	1,300	0.00	0	0	0	\$	1,300
EnergyStar Window Rebate Program	\$ 28,294	\$ 6,150	\$	22,144	4.60	33,400	835,001	27	\$	4,100
Residential Energy Efficiency Project	\$ -	\$ 11	-\$	11	0.00	0	0	0	\$	11
Voluntary Black Out Day	\$ -	\$ 992	-\$	992	0.00	0	0	0	\$	992
Name of Program F			\$	-	0.00					
Name of Program G			\$	-	0.00					
Name of Program H			\$	-	0.00					
Name of Program I			\$	-	0.00					
Name of Program J			\$	-	0.00					
*Totals App. B - Residential	\$ 28,294	\$ 8,453	\$	19,842	3.35	33,400	835,001	27	\$	6,403
Residential Indirect Costs not attributable to any specific program	 	\$ -				idential kWh ed in 2006	2632	23311		
Total Residential TRC Costs		\$ 8,453				Residential Peal	k in 2006 in kW	37,420		
**Totals TRC - Residential	\$ 28,294	\$ 8,453	\$	19,842	3.35					

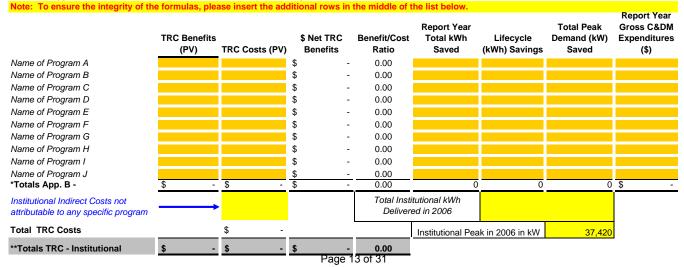
#### 2. Commercial Programs

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

Note. To ensure the integrity of the	C Benefits (PV)	Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Gross Exper	ort Year s C&DM nditures (\$)
Commercial Energy Efficiency Rebat	\$ 7,604	\$ 3,627	\$ 3,977	2.10	7,663	192,456	1	\$	549
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	1				
*Totals App. B -	\$ 7,604	\$ 3,627	\$ 3,977	2.10	7,664	192,456	1	\$	549
Commercial Indirect Costs not attributable to any specific program	 				mercial kWh ed in 2006				
Total TRC Costs		\$ 3,627	 		Commercial Pea	k in 2006 in kW	37,420		
**Totals TRC - Commercial	\$ 7,604	\$ 3,627	\$ 3,977	2.10					

#### **3. Institutional Programs**

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



#### 4. Industrial Programs

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

Note. To ensure the integrity of th	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC	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 Prorgam 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 -	\$-	\$-	\$-	0.00	0	0	0	\$-
Industrial Indirect Costs not attributable to any specific program					al kWh Delivered 2006			
Total TRC Costs		\$ -			Industrial Peak	in 2006 in kW	37,420	
**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.

Note: To ensure the integrity of th	TRC Benefits (PV)		\$ Net TRC	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$	- 0.00				
Name of Program B			\$	- 0.00				
Name of Program C			\$	- 0.00				
Name of Program D			\$	- 0.00				
Name of Program E			\$	- 0.00				
Name of Program F			\$	- 0.00				
Name of Program G			\$	- 0.00				
Name of Program H			\$	- 0.00				
Name of Program I			\$	- 0.00				
Name of Program J			\$	- 0.00				
*Totals App. B -	\$ -	\$-	\$	- 0.00	(	00	0	\$-
Agricultural Indirect Costs not attributable to any specific program				0	icultural kWh ed in 2006			
Total TRC Costs	_	\$-			Agricultural Pea	ak in 2006 in kW	37,420	
**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 J			\$ -	0.00				
*Totals App. B -	\$ -	\$-	\$ -	0.00	0	0	0	\$ -
LDC System Indirect Costs not attributable to any specific program					kWh Delivered in 2006			
Total TRC Costs		\$-			LDC Peak ir	n 2006 in kW	37,420	
**Totals TRC - LDC System	\$ -	\$ -	\$ -	0.00				

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

Report Year Gross C&DM Expenditures (\$)

8. 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.

	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 (\$)
Goderich Hydro CDM Portfolio Costs	\$-	\$ -	\$-	0.00	0	0	0	\$ -
Name of Program B			\$-	0.00				
Name of Program C			\$-	0.00				
Name of Program D			\$-	0.00				
Name of Program E			\$-	0.00				
Name of Program F			\$-	0.00				
Name of Program G			\$-	0.00				
Name of Program H			\$-	0.00				
Name of Program I			\$-	0.00				
Name of Program J			\$-	0.00				
*Totals App. B -	\$-	\$ -	\$-	0.00	0	0	0	\$-
Other #1 Indirect Costs not attributable to any specific program					Wh Delivered in 006			
Total TRC Costs		\$ -			"Other" Peak	in 2006 in kW	37,420	
**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 th	TRC Benefits (PV)	TRC Costs (PV)	itional rows in \$ Net TRC Benefits	the middle of t Benefit/Cost Ratio	he list below. Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$-	0.00				
Name of Program B			\$-	0.00				
Name of Program C			\$-	0.00				
Name of Program D			\$-	0.00				
Name of Program E			\$-	0.00				
Name of Program F			\$-	0.00				
Name of Program G			\$-	0.00				
Name of Program H			\$-	0.00				
Name of Program I			\$-	0.00				
Name of Program J			\$-	0.00				
*Totals App. B -	\$ -	\$ -	\$-	0.00	0	0	0	\$-
Other #2 Indirect Costs not attributable to any specific program					Wh Delivered in 006			
Total TRC Costs		\$-			"Other" Peak	in 2006 in kW	37,420	
**Totals TRC - Other #2	\$ -	\$ -	\$-	0.00				

#### LDC's CDM PORTFOLIO TOTALS

	TRO	C Benefits (PV)	TRC	Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio		eport Year lotal kWh Saved		Lifecycle Wh) Savings		Total Peak Demand (kW) Saved	Gro	oort Year ss C&DM enditures (\$)
<b>*TOTALS FOR ALL APPENDIX B</b>	\$	35,899	\$	12,080	\$ 23,819	2.97	\$	41,064	\$	1,027,457	\$	28	\$	6,952
Any other Indirect Costs not attributable to any specific program						Total kWh De	elive	ered in 2006		2632	233	311		
TOTAL ALL LDC COSTS			\$	12,080				Total Peak in	20	06 in kW		37,420		
**LDC' PORTFOLIO TRC	\$	35,899	\$	12,080	\$ 23,819	2.97								
						Total kWh De	elive	ered in 2005		2771	95	548		

\* 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.

#### (complete this section for each program)

A. Name of the Program:

Goderich Hydro CDM Portfolio Costs

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

Portfolio cost include expenditures not specific to a CDM Project. 2005 costs only. 2006 costs included in projects.

	Measure(s):						
		Measure 1	Measure 2 (if applicable	)	Measure 3 (	if applic	able)
	Base case technology:	0					
	Efficient technology:	0					
	Number of participants or units delivered:	0.00	N/A		N	/A	
	Measure life (years):	0.00					
	Number of participants or units 2005	1					
	Number of Participants or units						
	delivered life-to-date	1.00					
-	TRC Results:		Reporting Year				to-date TRC
В.			-		005 TRC Results		Results:
	TRC Benefits (\$):		\$	-		\$	-
	<sup>2</sup> TRC Costs (\$):					_	
		ogram cost (less incentives):	\$	- \$	4,800.01		4,800.01
	Incremental Measu	ire Costs (Equipment Costs)		-		\$	-
		Total TRC costs:		- \$	4,800.01		4,800.01
	Net TRC (in year CDN \$):		\$	\$	4,800.01	-\$	4,800.01
	Benefit to Cost Ratio (TRC Benefits/TR	C Costs):	#DIV/0!	\$	-	\$	-
C.	Results: (one or more category may ap	oply)			Cumulativ	/e Resu	ilts:
	Conservation Programs:						
	Demand savings (kW):	Summer	0.00		Report Winter	Demar	nd (kW)
		Winter	0.00		0.	00	1
						Cumu	ulative Annual
		lifecycle	in year	C	umulative Lifecycle		Savings
	Energy saved (kWh):	0.00	0.00		0		0
					2005 Lifecycle	20	05 Annual
	Other resources saved :						
				2			
	Natural Gas (m3):	0		0			
	Water (I)	0		0			
	Demand Management Programs:						
	Controlled load (kW)						
	Energy shifted On-peak to Mid-peak (k)	14/b) ·					
	Energy shifted On-peak to Off-peak (kV						
		-					
	Energy shifted Mid-peak to Off-peak (k	vv11).					
	Demand Response Programs:						
	Dispatchable load (kW):						
	Peak hours dispatched in year (hours):						
	Power Factor Correction Programs:						
	Amount of KVar installed (KVar):						
	Distribution system power factor at beg	ining of year (%).					
	Distribution system power factor at beg						
	Distribution system power racior at end	or your ( <i>70)</i> .					

#### Line Loss Reduction Programs:

Peak load savings (kW):								
	lifecycle		in year					
Energy savngs (kWh):								
Distributed Generation and Load Distributed Generation	splacement Programs:							
Amount of DG installed (kW):								
Energy generated (kWh):								
Peak energy generated (kWh):								
Fuel type:								
Other Programs (specify):								
Metric (specify):								
Program Costs*:			Reporting Year		2	005 Costs	Cun	nlative Life to Date
Utility direct costs (\$):	Incremental capital:	\$		-			\$	-
Includes Measure's Cost - ensure full cost								
of measure entered in TRC!L15	Incremental O&M:	\$		-	\$	4,800.01		4,800.01
	Incentive:	\$		-			\$	-
		<u> </u>		-			Ψ	
	Total:	\$		-	\$	4,800.01		4,800.01
Utility indirect costs (\$):		\$		-	\$	4,800.01	\$	4,800.0
Utility indirect costs (\$):	Total: Incremental capital: Incremental O&M:	-		-	\$	4,800.01		4,800.0 <sup>-</sup> - -
Utility indirect costs (\$):	Incremental capital:	\$		-	\$  \$	4,800.01 -	\$	4,800.0 <sup>-</sup> - -
Utility indirect costs (\$): Total Utility Cost of Program	Incremental capital: Incremental O&M:	\$		-		4,800.01 - - 4,800.01	\$ \$ \$	4,800.0 - - - 4,800.0

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

#### (complete this section for each program)

A. Name of the Program:

**Energy Conservation Website** 

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

The intent of this program is to create an active conservation culture. Using economies of scale the website costs are shared with others of the CHEC group. The CHEC website was completed in 2006.

	Measure(s):					
		Measure 1	Measure 2 (if appl	licable)	Measure 3 (	if applicable)
	Base case technology:	0				
	Efficient technology:	0				
	Number of participants or units					
	delivered:	0.00	N/A		N	/A
	Measure life (years):	0.00				
	Number of participants or units 2005	1				
	Number of Participants or units					
	delivered life-to-date	1.00				
	TRC Results:		Reporting Ye	ear		Life-to-date TRC
B.					2005 TRC Results	Results:
1	TRC Benefits (\$):		\$	-	\$-	\$-
2	TRC Costs (\$):					
		ogram cost (less incentives):	\$	-	\$ 1,622.05	\$ 1,622.05
	Incremental Measu	re Costs (Equipment Costs)	\$	-	. ,	\$ -
		Total TRC costs:	•	-	\$ 1,622.05	
	Net TRC (in year CDN \$):		\$	-	-\$ 1,622.05	
			Ψ		φ 1,022.00	φ 1,022.00
	Benefit to Cost Ratio (TRC Benefits/TR	PC Costs):	#DIV/0!		\$-	\$-
C.	Results: (one or more category may ap	(עומכ			Cumulativ	ve Results:
-		,			oundur	<u>io noouno.</u>
	Conservation Programs:					
	Demand savings (kW):	Summer	0.00		Report Winter	Demand (kW)
	<b>3</b> • ( )	Winter	0.00			00
						Cumulative Annual
		lifecycle	in year		Cumulative Lifecycle	Savings
	Energy saved (kWh):	0.00	0.00		0	0
					2005 Lifecycle	2005 Annual
					-	
	Other resources saved :			, i		I
	Natural Gas (m3):	0		0		
	Water (I)	0		0		
				0		
	Demand Management Programs:					
	Controlled load (kW)					
	Energy shifted On-peak to Mid-peak (k)	14/b) ·				
	Energy shifted On-peak to Off-peak (kV	,				
	Energy shifted Mid-peak to Off-peak (k)	vvn):				
	Demond Deemons - D					
	Demand Response Programs:					
	Dispatchable load (kW):					
	Peak hours dispatched in year (hours):					
	Power Factor Correction Programs:					
	Amount of KVar installed (KVar):					
	Distribution system power factor at beg	ining of year (%):				
	,					
	Distribution system power factor at end	of vear (%):				

#### Line Loss Reduction Programs:

Peak load savings (kW):								
	lifecycle		in year					
Energy savngs (kWh):								
Distributed Generation and Load D	isplacement Programs:							
Amount of DG installed (kW):								
Energy generated (kWh):								
Peak energy generated (kWh):								
Fuel type:								
Other Programs (specify):								
Metric (specify):								
Metric (specify):							Cum	nlative Life to
Metric (specify): Program Costs*:			Reporting Year		20	005 Costs	Cum	nlative Life to Date
	Incremental capital:	\$	<u>Reporting Year</u>	-	<u>20</u>	005 Costs	<u>Cum</u> \$	
Program Costs*:	Incremental capital: Incremental O&M:	\$ \$	Reporting Year	-	<u>20</u> \$	005 Costs 1,622.05	\$	Date
Program Costs*: Utility direct costs (\$):			Reporting Year				\$	Date
Program Costs*: Utility direct costs (\$):	Incremental O&M:		Reporting Year				\$ \$ \$	<u>Date</u> - 1,622.05
Program Costs*: Utility direct costs (\$):	Incremental O&M: Incentive:	\$ \$	Reporting Year		\$	1,622.05	\$ \$ \$	<u>Date</u> - 1,622.05 -
Program Costs*: Utility direct costs (\$):	Incremental O&M: Incentive:	\$ \$	Reporting Year		\$	1,622.05	\$ \$ \$	<u>Date</u> - 1,622.05 -
Program Costs*: Utility direct costs (\$): Error: Choose Measure's cost paid by:	Incremental O&M: Incentive: Total:	\$ <u>\$</u> \$	Reporting Year		\$	1,622.05	\$ \$ \$	<u>Date</u> - 1,622.05 -
Program Costs*: Utility direct costs (\$): Error: Choose Measure's cost paid by:	Incremental O&M: Incentive: Total: Incremental capital:	\$ <u>\$</u> \$	Reporting Year		\$	1,622.05	\$ \$ \$ \$	<u>Date</u> - 1,622.05 -

#### E. Assumptions & Comments:

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

<sup>2</sup> For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made

#### (complete this section for each program)

#### A. Name of the Program:

Commercial Energy Efficiency Rebate Program

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

Purchase of 36 LED Exit kits for installation in municipal buildings.

	Measure(s):	Measure 1		Measure 2	Measure 3	Me	asure 4
	Base case technology:	Old Exit Sign		0.00	0.00		0.00
	Efficient technology:	New LED Exist Sign		0.00	0.00		0.00
	Number of participants or units			0.00	0.00		5.00
	delivered:	36.00	,	0.00	0.00		0.00
	Measure life (years):	25.11		0.00			0.00
	Weddure me (years).	20.11		0.00	0.00		0.00
	Number of participants or units 2005						
	Number of participants or units 2005 Number of Participants or units						
	delivered life-to-date	36.00		0.00	0.00		0.00
		50.00	,	0.00	0.00		0.00
	TRC Results:			Reporting Year		l ife-to	-date TRC
В.	The Results.			Reporting rear	2005 TRC Results		sults:
2.	TRC Benefits (\$):		\$	7,604.44		\$	7,604.44
	Measure's Costs (\$):		Ψ	7,004.44		Ψ	7,004.44
		Itility program cost (less incentives):	¢	540.20		¢	540.00
				549.38		\$ ¢	549.38
	incremental Me	easure Costs (Equipment Costs)		3,078.00	¢	\$ ¢	3,078.00
		Total TRC costs:	\$	3,627.38		\$	3,627.38
	Net TRC (in year CDN \$):			\$3,977.06	\$	\$	3,977.06
	Benefit to Cost Ratio (TRC Benefits/TR	C Costs):	2.10		#DIV/0!	\$	2.10
	Deputter (one of more ontogen, more on						
C.	Results: (one or more category may ap	(piy)			Cumulativ	e Results:	
	0						
	Conservation Programs:		0.00		Dement Müschen	Dama and (14	A()
	Demand savings (kW):	Summer	0.83		Report Winter		VV)
		Winter	0.87		0.		
							tive Annual
		lifecycle		in year	Cumulative Lifecycle		avings
	Energy saved (kWh):	192,456.00		7,663.25	192456		63.248
					2005 Lifecycle	2005	5 Annual
	Other resources saved :						
	Natural Gas (m3):			0			
	Water (I)	0	)	0			
	Demand Management Programs:						
	Controlled load (kW)						
	Energy shifted On-peak to Mid-peak (kV	Vh):					
	Energy shifted On-peak to Off-peak (kW	/h):					
	Energy shifted Mid-peak to Off-peak (kV	Vh):					
	Demand Response Programs:						
	Dispatchable load (kW):						
	Peak hours dispatched in year (hours):						
	Power Factor Correction Programs:						
	Amount of KVar installed (KVar):						
	Distribution system power factor at begi	ning of year (%):					
	Distribution system power factor at begin Distribution system power factor at end						
	Distribution system power lactor at end	01 year (70).					
	Line Loss Reduction Programs						
	Line Loss Reduction Programs:						
	Peak load savings (kW):						
		lifecycle		in year			
	Energy savngs (kWh):						

Distributed Generation and Load Displacement Programs:

Energy generated (kWh): Peak energy generated (kWh): Fuel type:	Peak energy generated (kWh):	
Fuel type:	Fuel type:	
	Other Programs (specify):	
	Other Programs (specify):	

D.	Program Costs*:				2005 Costs	Cumla	tive Life to Date
	Utility direct costs (\$):	Incremental capital:	\$	-		\$	-
	Error Choose Measures Cost Paid By on TRC2	Incremental O&M:	\$	549.38		\$	549.38
		Incentive:	\$	-		\$	-
		Total:	\$	549.38	\$-	\$	549.38
	Utility indirect costs (\$):	Incremental capital:	¢			¢	
	Ounty maneet costs (\$).	,	ф Ф	-		ф Ф	-
		Incremental O&M:	<u>⊅</u>	<u> </u>		Ф	-
		Total:	\$	- 3	\$-	\$	-
	Total Utility Cost of Program		\$	549.38	-		549.38

#### E. Assumptions & Comments:

<sup>1</sup> net present value per unit benefit specified in the TRC Guide. <sup>2</sup> 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.

#### (complete this section for each program)

A. Name of the Program:

Coupon Program - 2005 Lighten Your Electricity Bill

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

2005 Coupon Program offering rebates to residential customers on a range of energy efficient technologies. Final costs received in 2006

	Measure(s):					
		Measure 1	Ν	leasure 2 (if applicable)	Measure 3 (	if applicable)
	Base case technology:	0				
	Efficient technology:	0				
	Number of participants or units delivered:	0.00		N/A	N	/A
	Measure life (years):	0.00				
	Number of participants or units 2005	329				
	Number of Participants or units	020				
	delivered life-to-date	329.00				
	TRC Results:			Reporting Year		Life-to-date TRC
В.					2005 TRC Results	Results:
	<sup>1</sup> TRC Benefits (\$):		\$	-	\$ 12,335.00	
1	<sup>2</sup> TRC Costs (\$):					
		ogram cost (less incentives):		1,299.68		+ -,
	Incremental Measu	ure Costs (Equipment Costs)			\$ 1,452.00	
		Total TRC costs:		1,299.68		
	Net TRC (in year CDN \$):		-\$	1,299.68	\$ 8,748.77	\$ 7,449.09
	Benefit to Cost Ratio (TRC Benefits/TR	C Costs):	0.00		\$ 3.44	\$ 2.52
C.	Results: (one or more category may a	oply)			Cumulativ	ve Results:
	Conservation Programs:		0.00		Dement Minter	Descended (1)(1)
	Demand savings (kW):	Summer	0.00			Demand (kW)
		Winter	0.00		0.	00 Cumulative Annual
		lifecycle		in year	Cumulative Lifecycle	Savings
	Energy saved (kWh):	0.00		0.00	273499	27266
		0.00		0.00	2005 Lifecycle	2005 Annual
					273499	27266
	Other resources saved :					
	Natural Gas (m3):	0		0		
	Water (I)	0		0		
	Demand Management Programs: Controlled load (kW)					
	Energy shifted On-peak to Mid-peak (k	M/b):				
	Energy shifted On-peak to Off-peak (kl	,				
	Energy shifted Mid-peak to Off-peak (k	,				
	Energy shines who peak to on peak (k	· · · · · · · · · · · · · · · · · · ·				
	Demand Response Programs:					
	Dispatchable load (kW):					
	Peak hours dispatched in year (hours):					
	Power Factor Correction Programs:					
	Amount of KVar installed (KVar):					
	Distribution system power factor at beg	iining of vear (%).				
	Distribution system power factor at beg					
	2.ebuildin cycloin power labler at ena					

#### Line Loss Reduction Programs:

Peak load savings (kW):							
	lifecycle		in year				
Energy savngs (kWh):							
Distributed Generation and Load D	isplacement Programs:						
Amount of DG installed (kW):							
Energy generated (kWh):							
Peak energy generated (kWh):							
Fuel type:							
Other Programs (specify):							
Metric (specify):							
						Cu	mlative Life to
Program Costs*:		R	eporting Year		2005 Costs	<u>Cu</u>	mlative Life to Date
Program Costs*: Utility direct costs (\$):	Incremental capital:	<u>R</u> (	eporting Year		<u>2005 Costs</u>	<u>Cu</u>	
	Incremental capital: Incremental O&M:			\$	2005 Costs 1,192.23	\$	Date
Utility direct costs (\$):		\$	-	\$ \$		\$ \$	Date
Utility direct costs (\$):	Incremental O&M:	\$ \$	-	<mark>\$</mark> \$	1,192.23	\$ \$ \$	<u>Date</u> - 2,491.91
<i>Utility direct costs</i> (\$): Error: Choose Measure's cost paid by:	Incremental O&M: Incentive: Total:	\$ \$ \$	- 1,299.68 -	\$	1,192.23 942.00	\$ \$ \$	<u>Date</u> 2,491.91 942.00
Utility direct costs (\$):	Incremental O&M: Incentive:	\$ \$ \$	- 1,299.68 - 1,299.68	\$	1,192.23 942.00	\$ \$ \$ \$	<u>Date</u> 2,491.91 942.00 3,433.91
<i>Utility direct costs</i> (\$): Error: Choose Measure's cost paid by:	Incremental O&M: Incentive: Total: Incremental capital:	\$ \$ \$	- 1,299.68 - 1,299.68 -	\$	1,192.23 942.00	\$ \$ \$	<u>Date</u> 2,491.91 942.00 3,433.91
<i>Utility direct costs</i> (\$): Error: Choose Measure's cost paid by:	Incremental O&M: Incentive: Total: Incremental capital: Incremental O&M:	\$ \$ \$ \$ \$ \$	- 1,299.68 - 1,299.68 -	\$ \$	1,192.23 942.00	\$ \$ \$ \$ \$	<u>Date</u> 2,491.91 942.00 3,433.91 -

อก สายสารอง <u>นาะย</u>าย เองกลายอยู่ๆ กลอ อออก สอยาสวยม. ออกอกเขาออออก เหยายายออกเขากลาย กละกอบ อา นาย กละกอบ อา นาย สอยาสวยน การกอ วัฒนๆ กอ. แกะ กละกอบ อา

<sup>2</sup> component of the TRC costs. However, payments made .....

#### (complete this section for each program)

A. Name of the Program:

EnergyStar Window Rebate Program

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

To provide a \$50 rebate per EnergyStar window installed.

Base case technology:       Single or double window       Image: Chine of the chine of technology:         Efficient technology:       EnergyStar rated window       Image: Chine of technology:         Number of participants or units delivered:       82.00       N/A         Measure life (years):       25.00       Image: Chine of technology:         Number of participants or units 2005       82.00       Image: Chine of technology:         Number of participants or units 2005       82.00       Image: Chine of technology:         B.       TRC Results:       82.00       Image: Chine of technology:         *       TRC Benefits (\$):       \$       2005 TRC Results         *       2005 TRC Results:       \$       28,294.23         *       TRC Costs (\$):       \$       28,294.23         *       Utility program cost (less incentives):       \$       2005 TRC Results         *       1ncremental Measure Costs (Equipment Costs)       \$       6,150.00		Measure(s):					
Efficient technologi: Hurrber of Participants or units delevend: Hurrber of Participants or units delivered life-to-date Participants or units delivered life-to-date B. TRC Results: ' TRC Beaults: ' TRC Costs (S): Ullipy program cost (less incentives): S 28,294,23 S - S 28,294,23 S 28,294,23 S - S 28,294,23 ' TRC Costs (S): Ullipy program cost (less incentives): S 6,150,00 S - S 6,150,00 Total TRC costs: S 6,150,00 S - S 6,150,00 Net TRC (in year CDN S): Cumulative Costs (Equipment Costs) Beandit to Cost Ratio (TRC Benefits/TRC Costs): 4,60 wDIV/01 S 4,60 C. Results: Conservation Programs: Demand Managure Costs]: Minter 26,76 Commutation (WN): Benergy saved (WM): Benergy savet (bod (M)): Benergy savet (bod			Measure 1	Meas	sure 2 (if applicable)	Measure 3 (	if applicable)
Number of participants or units       82.00       N/A       N/A         Measure life (years):       25.00       N/A       N/A         Number of participants or units       82.00       N/A       N/A         Number of participants or units       82.00       Reporting Year       2005 TRC Results:       1         B.       TRC Banelits (\$):       \$       28.00       \$       6.150.00       \$       6.150.00         ' TRC Costs (\$):       Utility program cost (less incentives):       \$       6.150.00       \$       \$       6.150.00         Menter Costs (\$):       Utility program cost (less incentives):       \$       6.150.00       \$       \$       6.150.00         Ment TRC (n year CDN \$):       S       6.150.00       \$       \$       6.150.00       \$       \$       \$       1.100       \$       4.60       #DIV/01       \$							
deliveract:       82.00       N/A       N/A         Measure life (years):       25.00          Number of Participants or units 2005       82.00          Number of Participants or units 2005       82.00          * TRC Beaultis:       \$ 28.204.23       \$ 28.244.23         * TRC Denofits (\$):       \$ 28.204.23       \$ 0.00         * TRC Costs (\$):       Utility program cost (less incentrives):       \$ 0.00         Immoremental Measure Costs (Equiprime Tocast)       \$ 6.150.00       \$ 6.150.00         Net TRC (in year CDN \$):       \$ 22.144.23       \$ 22.144.23         Benefit to Cost Rabio (TRC Benefits/TRC Costs):       4.60       #DIVIOI       \$ 4.60         C       Results:       \$ 0.00       Report Winter Demand (kW)       \$ 4.60         C       Results:       \$ 0.00       Report Winter Demand (kW)       \$ 4.60         Energy saved (kWh):       \$ 30.00.88       33.400.04       28500.084       20.00 5         Other resources saved :			EnergyStar rated window				
Measure life (years):       25.00         Number of participants or units       82.00         Image: the invariant of the inva			00.00		N1/A		( )
Number of Participants or units 2005 Mumber of Participants or units delivered life-to-date       82.00         Image: Text Dennetits (\$):       \$28,204,23\$         Image: Text Dennetits (\$):       \$36,150,00         Image: Text Dennetits (\$):       \$6,150,00         Image: Text Dennetits (\$0,00       \$6,150,00         Image: Text Dennetits Dennetits (\$0,00       \$6,150,00         Dennetit to Cost Ratio (TRC Benetits, TRC Costs):       \$6,150,00         Denn					N/A	N	/A
Mumber of Participants or units delivered life-to-date         Reporting Year         2005 TRC Results         Life-to-date TRC Results:           * TRC Benefits (\$): * TRC Costs (\$): Utility program cost (less incentives): * TRC Costs (\$): Utility program cost (less incentives): * TRC (in year CDN \$): * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Measure life (years):	25.00				
Mumber of Participants or units delivered life-to-date         Reporting Year         2005 TRC Results         Life-to-date TRC Results:           * TRC Benefits (\$): * TRC Costs (\$): Utility program cost (less incentives): * TRC Costs (\$): Utility program cost (less incentives): * TRC (in year CDN \$): * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
Incomparison         Reporting Year         2005 TRC Results         Life-to-date TRC Results           * TRC Benefits (\$):         \$         20.92 H23         \$         \$         \$           * TRC Costs (\$):         Utility program cost (less incentives):         \$         \$         \$         \$           Incremental Measure Costs (Equipment Costs)         \$         <							
Incremental Measure Costs (3):         Reporting Year         2005 TRC Results         Life-to-date TRC Results           * TRC Deneitis (3):         \$         28/294/23         \$         \$         28/294/23           * TRC Costs (3):         Utility program cost (less incentives):         \$         \$         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$         \$         28/294/23         \$ <td< td=""><td></td><td></td><td>82.00</td><td></td><td></td><td></td><td></td></td<>			82.00				
B. <ul> <li>TRC Benefits (\$):</li> <li>TRC Costs (\$):</li> <li>Utility program cost (less incentives):</li> <li>S</li> <li>28,294.23</li> <li>S</li> <li>28,294.23</li> <li>S</li> <li>Contremental Measure Costs (Equipment Costs)</li> <li>S</li> <lis< li=""> <li>S&lt;</li></lis<></ul>		denvered me-to-date	82.00				
* TRC Benefits (\$):       \$       28,294,23       \$       \$       \$       28,294,23         * TRC Costs (\$):       LUllity program cost (less incentives):       \$       \$       \$       5       22,144,23       \$       \$       5       4,600       #DIV/0!       \$       2,012,144,23       \$       2,012,144,23       \$       2,012,144,23       \$       2,012,144,23       \$       2,012,144,23       \$       2,0		TRC Results:		F	Reporting Year		Life-to-date TRC
* TRC Costs (8):       Utility program cost (less incentives):       \$       .       \$       .       \$       .       \$       .       \$       .       .       \$       .       .       \$       .       .       \$       .       .       \$       .       .       \$       .       .       \$       .       .       \$       .       .       \$       .       .       \$       .       .       \$       .       .       .       \$       .	В.					2005 TRC Results	Results:
Utility program cost (less incentives):         \$         -         \$         -           Incremental Measure Costs (Equipment Costs)         \$         6,150.00         \$         \$         6,150.00           Not TRC (in year CDN \$):         Incremental Measure Costs (\$         \$         6,150.00         \$         \$         6,150.00           Not TRC (in year CDN \$):         Interpretent of the costs is incremental Measure Costs (\$         \$         22,144.23         \$         \$         22,144.23           Benefit to Cost Ratio (TRC Benefits/TRC Costs):         4.60         #DIV/01         \$         4.60           C.         Results; (one or more category may apply)         Cumulative Results:         Conservation Programs:         Cumulative Costs (kW)         Cumulative Annual Cumula	1	TRC Benefits (\$):		\$	28,294.23	\$-	\$ 28,294.23
Incremental Measure Costs (Equipment Costs)       \$       6,150.00       \$       \$       6,150.00         Net TRC (in year CDN \$):       \$       22,144.23       \$       \$       2,214.42.3         Benefit to Cost Ratio (TRC Benefits/TRC Costs):       4,60       #DIV/ol       \$       4,60         C.       Results: (one or more category may apply)       Cumulative Results:       Cumulative Results:         Demand savings (kW):       Summer       0.00       Report Winter Demand (kW)         Winter       26.76       26.76       Cumulative Annual Savings         Energy saved (kWh):       835,000.88       33,400.04       835000.87.5       33400.035         2005 Lifecycle       in year       Cumulative Annual Savings       Savings       33400.035         Chronoled load (kWh):       835,000.88       33,400.04       835000.87.5       33400.035         2005 Lifecycle       2005 Annual       0       0       0       0         Matural Gas (m3):       0       0       0       0       0       0         Demand Management Programs:       Energy shifted On-peak to Mid-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted And (kW)       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Ener	2	TRC Costs (\$):					
Total TRC costs:         \$         6,150.00         \$         -         \$         6,150.00           Net TRC (in year CDN \$):         \$         22,144.23         \$         -         \$         22,144.23           Benefit to Cost Ratio (TRC Benefits/TRC Costs):         4.60         #DIV/0!         \$         4.60           C.         Results: (one or more category may apply)         Cumulative Results:         Cumulative Results:           Demand savings (kW):         Summer         0.00         Report Winter Demand (kW)           Winter         26.76         26.76         Savings           Energy saved (kWh):         835,000.88         33,400.04         Sab5000.875         33400.035           Other resources saved :         Vatural Gas (m3):         0         0         0         0           Water (I)         0         0         0         0         0         0         0           Demand Management Programs:         Controlled load (kW)         Energy shifted On-peak to Mid-peak (kWh):         Energy shifted On-peak to Off-peak		Utility pro	ogram cost (less incentives):	\$	-		\$-
Net TRC (in year CDN \$):       \$ 22,144.23       \$ -       \$ 22,144.23         Benefit to Cost Ratio (TRC Benefits/TRC Costs):       4.60       #DIV/01       \$ 4.60         C.       Results: (one or more category may apply)       Cumulative Results:         Conservation Programs:       0.00       Report Winter Demand (WV)         Demand savings (kW):       Summer       0.00       Report Winter Demand (kW)         Winter       26.76       26.76       26.76         Iffecycle       in year       Cumulative Lifecycle       Savings         Energy saved (kWh):       835,000.88       33,400.04       835000.875       33400.035         Other resources saved :       Natural Gas (m3):       0       0       0         Water (I)       0       0       0       0       0         Demand Management Programs:       0       0       0       0       0         Controlled load (kW)       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh): <t< td=""><td></td><td>Incremental Measu</td><td>re Costs (Equipment Costs)</td><td>\$</td><td>6,150.00</td><td></td><td>\$ 6,150.00</td></t<>		Incremental Measu	re Costs (Equipment Costs)	\$	6,150.00		\$ 6,150.00
Benefit to Cost Ratio (TRC Benefits/TRC Costs):       4.60       #DIV/0!       \$ 4.60         Benefit to Cost Ratio (TRC Benefits/TRC Costs):       4.60       #DIV/0!       \$ 4.60         C.       Results: (one or more category may apply)       Cumulative Results:         Conservation Programs: Winter       0.00       Report Winter Demand (kW)         Demand savings (kW):       Summer       0.00       26.76         Ifecycle       in year       Cumulative Lifecycle       Savings         Energy saved (kWh):       835,000.88       33,400.04       835000.875       33400.035         Other resources saved :       0       0       0       0         Water (f)       0       0       0       0         Demand Management Programs:       Controlled Read (kW)       Energy shifted On-peak to Mid-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):         Energy shifted Don-peak to Off-peak (kWh):       Energy shifted Mid-peak to Off-peak (kWh):       Energy shifted Mid-peak to Off-peak (kWh):       Energy shifted Mid-peak to Off-peak (kWh):         Dispatchable load (kW):       Peak hours dispatched in year (hours):       Distribution system power factor at begining of year (%):       Distribution system power factor at end of year (%):			Total TRC costs:	\$	6,150.00	\$-	\$ 6,150.00
C. Results: (one or more Category may apply) Cumulative Results: Conservation Programs: Demand savings (kW): Uniter Demand savings (kW): Uniter Conservation Programs: Energy saved (kWh): Ba35,000.88 Ba33,400.04 Ba34,400,40 Ba34,400,40 Ba34,400,40 Ba34,400,40 Ba34,400,40		Net TRC (in year CDN \$):		\$	22,144.23	\$-	\$ 22,144.23
C. Results: (one or more Category may apply) Cumulative Results: Conservation Programs: Demand savings (kW): Uniter Demand savings (kW): Uniter Conservation Programs: Energy saved (kWh): Ba35,000.88 Ba33,400.04 Ba34,400,40 Ba34,400,40 Ba34,400,40 Ba34,400,40 Ba34,400,40							
Conservation Programs:         Demand savings (kW):       Summer       0.00       Report Winter Demand (kW)         26.76       26.76       26.76         Iffecycle       in year       Cumulative Lifecycle       Savings         Energy saved (kWh):       835,000.88       33,400.04       335000.875       33400.035         Other resources saved :       Natural Gas (m3):       0       0       0         Water (I)       0       0       0       0         Demand Management Programs:       Controlled load (kW)       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):		Benefit to Cost Ratio (TRC Benefits/TR	C Costs):	4.60		#DIV/0!	\$ 4.60
Conservation Programs:         Demand savings (kW):       Summer       0.00       Report Winter Demand (kW)         26.76       26.76       26.76         Iffecycle       in year       Cumulative Lifecycle       Savings         Energy saved (kWh):       835,000.88       33,400.04       335000.875       33400.035         Other resources saved :       Natural Gas (m3):       0       0       0         Water (I)       0       0       0       0         Demand Management Programs:       Controlled load (kW)       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):			and a				
Demand savings (kW):       Summer       0.00       Report Winter Demand (kW)         Winter       26.76       26.76         Ilfecycle       in year       Cumulative Lifecycle       Savings         Energy saved (kWh):       835,000.88       33,400.04       835000.875       33400.035         Other resources saved :       0       0       0       2005 Lifecycle       2005 Annual         Other resources saved :       0       0       0       0       0       0         Demand Management Programs:       0       0       0       0       0       0         Controlled load (kW)       Energy shifted On-peak to Mid-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted Mid-peak (kWh): <td>C.</td> <td>Results: (one of more category may ap</td> <td>ргу)</td> <td></td> <td></td> <td>Cumulativ</td> <td><u>e Results:</u></td>	C.	Results: (one of more category may ap	ргу)			Cumulativ	<u>e Results:</u>
Demand savings (kW):       Summer       0.00       Report Winter Demand (kW)         Winter       26.76       26.76         Ilfecycle       in year       Cumulative Lifecycle       Savings         Energy saved (kWh):       835,000.88       33,400.04       835000.875       33400.035         Other resources saved :       0       0       0       2005 Lifecycle       2005 Annual         Other resources saved :       0       0       0       0       0       0         Demand Management Programs:       0       0       0       0       0       0         Controlled load (kW)       Energy shifted On-peak to Mid-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted On-peak to Off-peak (kWh):       Energy shifted Mid-peak (kWh): <td></td> <td>Conservation Programs:</td> <td></td> <td></td> <td></td> <td></td> <td></td>		Conservation Programs:					
Winter     26.76       Iifecycle     in year       Cumulative Lifecycle     Gumulative Annual Savings       Energy saved (kWh):     835,000.88       33,400.04     835000.875       33400.035       2005 Lifecycle			Summer	0.00		Report Winter	Demand (kW)
Iffecycle       in year       Cumulative Lifecycle       Cumulative Annual Savings         Energy saved (kWh):       835,000.88       33,400.04       835000.875       33400.035         Other resources saved :       2005 Lifecycle       2005 Annual         Other resources saved :       0       0         Water (I)       0       0         Demand Management Programs:       0       0         Controlled load (kW)		• • •					
Iffecycle       in year       Cumulative Lifecycle       Savings         Energy saved (kWh):       835,000.88       33,400.04       835000.875       33400.035         2005 Lifecycle       2005 Annual         Other resources saved :       0       0         Natural Gas (m3):       0       0         Water (I)       0       0         Controlled load (kW)       0       0         Energy shifted On-peak to Mid-peak (kWh):       0       0         Energy shifted On-peak to Off-peak (kWh):       0       0         Energy shifted Mid-peak to Off-peak (kWh):       0       0         Energy shifted Mid-peak to Off-peak (kWh):       0       0         Peak hours dispatched in year (hours):       0       0         Dispatchable load (kW):       0       0       0         Path nours dispatched in year (hours):       0       0       0         Distribution system power factor at begining of year (%):       0       0       0         Distribution system power factor at end of year (%):       0       0       0			, , , , , , , , , , , , , , , , , , ,	20.10			
Energy saved (kWh):       835,000.88       33,400.04       835000.875       33400.035         2005 Lifecycle       2005 Annual         Other resources saved :       0       0         Matural Gas (m3):       0       0         Water (l)       0       0         Controlled load (kW)       0       0         Energy shifted On-peak to Mid-peak (kWh):       0       0         Energy shifted On-peak to Off-peak (kWh):       0       0         Energy shifted Mid-peak (kWh):       0       0         Dispatchable load (kW):       0       0         Peak hours dispatched in year (hours):       0       0         Power Factor Correction Programs:       0       0         Dispatchable load (kV):       0       0         Path hours dispatched in year (hours):       0       0         Distribution system power factor at begining of year (%):       0       0         Distribution system power factor at end of year (%):       0       0			lifecvcle		in vear	Cumulative Lifecycle	
Other resources saved :       2005 Lifecycle       2005 Annual         Natural Gas (m3):       0       0         Water (l)       0       0         Demand Management Programs:       0       0         Controlled load (kW)       0       0         Energy shifted On-peak to Mid-peak (kWh):       0       0         Energy shifted On-peak to Off-peak (kWh):       0       0         Dispatchable load (kW)       0       0         Pemand Response Programs:       0       0         Dispatchable load (kW):       0       0         Peak hours dispatched in year (hours):       0       0         Amount of KVar installed (KVar):       0       0         Distribution system power factor at begining of year (%):       0       0         Distribution system power factor at end of year (%):       0       0		Energy saved (kWh)	,		-		-
Natural Gas (m3):       0       0         Water (I)       0       0         Demand Management Programs:		2.10.gy carea ().	000,000,000				
Natural Gas (m3):       0       0         Water (I)       0       0         Demand Management Programs:						· ·	
Water (t)       0       0         Demand Management Programs:       Controlled load (kW)         Energy shifted On-peak to Mid-peak (kWh):       Image: Controlled International Controlled Internation Controled Controlled Internation Control Control Con		Other resources saved :					
Water (t)       0       0         Demand Management Programs:       Controlled load (kW)         Energy shifted On-peak to Mid-peak (kWh):       Image: Controlled International Controlled Internation Controled Controlled Internation Control Control Con		Natural Gas (m3):	0		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):         Energy shifted Mid-peak to Off-peak (kWh):         Energy shifted Mid-peak to Off-peak (kWh):         Demand Response Programs:         Dispatchable load (kW):         Peak hours dispatched in year (hours):         Power Factor Correction Programs:         Amount of KVar installed (KVar):         Distribution system power factor at begining of year (%):         Distribution system power factor at end of year (%):							
Controlled load (kW)			-				
Controlled load (kW)		Demand Management Programs:					
Energy shifted On-peak to Mid-peak (kWh):         Energy shifted On-peak to Off-peak (kWh):         Energy shifted Mid-peak to Off-peak (kWh):         Demand Response Programs:         Dispatchable load (kW):         Peak hours dispatched in year (hours):         Power Factor Correction Programs:         Amount of KVar installed (KVar):         Distribution system power factor at begining of year (%):         Distribution system power factor at end of year (%):							
Energy shifted On-peak to Off-peak (kWh):         Energy shifted Mid-peak to Off-peak (kWh):         Demand Response Programs:         Dispatchable load (kW):         Peak hours dispatched in year (hours):         Power Factor Correction Programs:         Amount of KVar installed (KVar):         Distribution system power factor at begining of year (%):         Distribution system power factor at end of year (%):			N/h):				
Energy shifted Mid-peak to Off-peak (kWh):         Demand Response Programs:         Dispatchable load (kW):         Peak hours dispatched in year (hours):         Power Factor Correction Programs:         Amount of KVar installed (KVar):         Distribution system power factor at begining of year (%):         Distribution system power factor at end of year (%):							
Demand Response Programs:         Dispatchable load (kW):         Peak hours dispatched in year (hours):         Power Factor Correction Programs:         Amount of KVar installed (KVar):         Distribution system power factor at begining of year (%):         Distribution system power factor at end of year (%):							
Dispatchable load (kW):		Energy shinted Mid-peak to On-peak (kt	wn):				
Dispatchable load (kW):		Demand Response Programs:					
Peak hours dispatched in year (hours):							
Power Factor Correction Programs:         Amount of KVar installed (KVar):         Distribution system power factor at begining of year (%):         Distribution system power factor at end of year (%):							
Amount of KVar installed (KVar):		,					
Distribution system power factor at begining of year (%): Distribution system power factor at end of year (%):		Power Factor Correction Programs:					
Distribution system power factor at end of year (%):		Amount of KVar installed (KVar):					
Distribution system power factor at end of year (%):		. ,	ining of year (%):				
Line Loss Reduction Programs:							
Line Loss Reduction Programs:		· · ·					
		Line Loss Reduction Programs:					

Cumlative Life to

Program Costs*:		Reporting Year	<u>2005 C</u>
Metric (specify):			
Other Programs (specify):			
Fuel type:			
Peak energy generated (kWh):			
Energy generated (kWh):			
Amount of DG installed (kW):			
Distributed Generation and Load	Displacement Programs:		
Energy savings (kwin).			
Energy savngs (kWh):	medyole	in your	
reak load savings (KW).	lifecycle	in year	
Peak load savings (kW):			

D.	Program Costs*:			Reporting Year	2005 Costs	Date
	Utility direct costs (\$):	Incremental capital:	\$	-		\$ -
		Incremental O&M:	\$	-		\$ -
		Incentive:	<u>\$</u>	4,100.00		\$ 4,100.00
		Total:	\$	4,100.00	\$-	\$ 4,100.00
	Utility indirect costs (\$):	Incremental capital:	\$	-		\$ -
		Incremental O&M:	\$	-		\$ -
		Total:	\$	-	\$-	\$ -
	Total Utility Cost of Program		\$	4,100.00	-	4,100.00

#### E. Assumptions & Comments:

The OEB Assumptions were changed for this measure. The incentive was to encourage the installation of EnergyStar windows rather than the installation of standard windows. The incentive would not have caused the customer to "change their windows" hence only the incremental cost should be utilized. The incremental cost was assumed at \$100 per window and the free rider rate was raised to 25% recognizing a higher acceptance and availability of EnergyStar windows.

<sup>1</sup> units times the net present value per unit b <sup>2</sup> component of the TRC costs. However, payments made

#### (complete this section for each program)

A. Name of the Program:

Residential Energy Efficiency Project (REE)

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

2005 Project - Consultants performed EnerGuide Home Evaluations. Goderich Hydro provided \$50 rebate.

Measure(s):								
	weasure(s).	Measure 1	Ν	leasure 2 (if applicable)		Measure 3 (	if applic	able)
	Base case technology:	0						
	Efficient technology:	0						
	Number of participants or units delivered:	0.00		N/A		N	/A	
	Measure life (years):	0.00		N/A		IN	/ <b>A</b>	
	Number of participants or units 2005	47						
	Number of Participants or units delivered life-to-date	47.00						
	denvered me-to-date	47.00						
	TRC Results:			Reporting Year			Life-	to-date TRC
			_			RC Results	-	Results:
	TRC Benefits (\$):		\$	-	\$	-	\$	-
2	TRC Costs (\$):		•				•	
		ogram cost (less incentives):	\$	10.57	-	1,739.00		1,749.57
	Incremental Measu	,		-	\$	4,230.00		4,230.00
		Total TRC costs:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.57		5,969.00		5,979.57
	Net TRC (in year CDN \$):		-\$	10.57	-\$	5,969.00	-\$	5,979.57
	Benefit to Cost Ratio (TRC Benefits/TR	C Costs):	0.00		\$	-	\$	-
	Results: (one or more category may a					Cumulati	- Deer	dia.
	results. (one of more category may ap	(עוקר				<u>Cumulativ</u>	e Resi	<u>lits:</u>
	Conservation Programs:							
	Demand savings (kW):	Summer	0.00			Report Winter	Demar	nd (kW)
		Winter	0.00			0.	00	
								ulative Annual
		lifecycle		in year	Cumula	tive Lifecycle		Savings
	Energy saved (kWh):	0.00		0.00	2005	0	00	0
					2005	5 Lifecycle	20	005 Annual
	Other resources saved :							
	Natural Gas (m3):	0			)			
	Water (I)				)			
	Demand Management Programs:							
	Controlled load (kW)							
	Energy shifted On-peak to Mid-peak (k	-						
	Energy shifted On-peak to Off-peak (kk	,						
	Energy shifted Mid-peak to Off-peak (k	Wh):						
	Demand Response Programs:							
	Dispatchable load (kW):							
	Peak hours dispatched in year (hours):							
	Power Factor Correction Programs:							
	Amount of KVar installed (KVar):							
	Distribution system power factor at beg	ining of year (%):						
	Distribution system power factor at end							
	Line Less Reduction Brograms							

Line Loss Reduction Programs:

	Peak load savings (kW):							
		lifecycle	in year					
	Energy savngs (kWh):							
	Distributed Generation and Load D	isplacement Programs:						
	Amount of DG installed (kW):							
	Energy generated (kWh):							
	Peak energy generated (kWh):							
	Fuel type:							
	Other Bregrame (anasifu)							
	Other Programs (specify):							
	Metric (specify):							
							Cun	nlative Life to
D.	Program Costs*:		Reporting Y	ear	2	005 Costs		Date
	Utility direct costs (\$):	Incremental capital:	\$	-			\$	-
	Error: Choose Measure's cost paid by:	Incremental O&M:	\$	10.57	\$	1,739.00	\$	1,749.57
		Incentive:	<u>\$</u>	-	\$	2,350.00	\$	2,350.00
		Total:	\$	10.57	\$	4,089.00	\$	4,099.57
	Utility indirect costs (\$):	Incremental capital:	\$	-			\$	-
		Incremental O&M:	\$	-			\$	-
		Total:	\$	-	\$	-	\$	-
	Total Utility Cost of Program		\$	10.57		4,089.00		4,099.57
E.	Assumptions & Comments:							

<sup>1</sup> units times the net present value per unit b. <sup>2</sup> component of the TRC costs. However, payments made

#### (complete this section for each program)

A. Name of the Program:

Smart Meters Project

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

2005 Project: Goderich Hydro planned to offer Smart Meters to residential customers.

Summer Winter

Measure(s):				
	Measure 1	Measure 2 (if applicable)	Measure 3 (	if applicable)
Base case technology:	0			
Efficient technology:	0			
Number of participants or units				
delivered:	0.00	N/A	N	/A
Measure life (years):	0.00			
Number of participants or units 2005				
Number of Participants or units				
delivered life-to-date	0.00			
TRC Results:		Reporting Year	2005 TRC Results	Life-to-date TRC Results:
<sup>1</sup> TRC Benefits (\$):		\$ -	\$ -	\$ -
<sup>2</sup> TRC Costs (\$):				
Utility pro	ogram cost (less incentives):	\$ -	\$ 1,636.36	\$ 1,636.36
Incremental Measu	re Costs (Equipment Costs)	\$ -		\$ -
	Total TRC costs:	\$ -	\$ 1,636.36	\$ 1,636.36

\$

#DIV/0!

0.00

0.00

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

Net TRC (in year CDN \$):

Conservation Programs: Demand savings (kW): Report Winter Demand (kW) 0.00

-\$

\$

1,636.36 -\$

- \$

**Cumulative Results:** 

1,636.36

-

	lifecycle	in year	Cumulative Lifecycle Savings	nual
Energy saved (kWh):	0.00	0.00	0 0	
			2005 Lifecycle 2005 Annua	1
Other resources saved :				
Natural Gas (m3):	0		0	
Water (I)	0		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:				
Dispatchable load (kW):				
Peak hours dispatched in year (hours):				

#### Power Factor Correction Programs:

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

#### Line Loss Reduction Programs:

Peak load savings (kW):								
	lifecycle		in year					
Energy savngs (kWh):								
Distributed Generation and Load D	isplacement Programs:							
Amount of DG installed (kW):								
Energy generated (kWh):								
Peak energy generated (kWh):								
Fuel type:								
Other Bregrame (apositiv)								
Other Programs (specify):								
Metric (specify):								
Program Costs*:			Reporting Year		20	005 Costs	<u>Cur</u>	nlative Life to Date
Program Costs*: Utility direct costs (\$):	Incremental capital:	\$	Reporting Year	-	<u>2(</u>	005 Costs	<u>Cur</u> \$	
	Incremental capital: Incremental O&M:	\$ \$	Reporting Year	-	<u>2(</u> \$	005 Costs 1,636.36	\$	<u>Date</u> -
Utility direct costs (\$):			<u>Reporting Year</u>				\$	<u>Date</u> -
Utility direct costs (\$):	Incremental O&M:	\$	Reporting Year				\$ \$ \$	<u>Date</u> - 1,636.36 -
Utility direct costs (\$): Error: Choose Measure's cost paid by:	Incremental O&M: Incentive: Total:	\$ <u>\$</u> \$	Reporting Year		\$	1,636.36	\$ \$ \$	<u>Date</u> - 1,636.36 -
Utility direct costs (\$):	Incremental O&M: Incentive: Total: Incremental capital:	\$ <u>\$</u> \$	Reporting Year		\$	1,636.36	\$ \$ \$ \$	<u>Date</u> - 1,636.36
Utility direct costs (\$): Error: Choose Measure's cost paid by:	Incremental O&M: Incentive: Total:	\$ <u>\$</u> \$	Reporting Year		\$	1,636.36	\$ \$ \$	<u>Date</u> - 1,636.36
Utility direct costs (\$): Error: Choose Measure's cost paid by:	Incremental O&M: Incentive: Total: Incremental capital:	\$ <u>\$</u> \$	Reporting Year		\$	1,636.36	\$ \$ \$ \$	<u>Date</u> - 1,636.36

#### E. Assumptions & Comments:

#### Net TRC adjusted by 1636 for Smart Metering change in reporting per OEB

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

<sup>2</sup> For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made

#### (complete this section for each program)

Name of the Program: Α.

Voluntary Black Out Day

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

Combined effort of utilities to profile the importance of energy and the ability to reduce by sponsoring a voluntary black out day.

	Measure(s):						
	incucai o(c).	Measure 1	Ν	leasure 2 (if applicable)	Measure 3 (	if applicable)	
	Base case technology:	0					
	Efficient technology:	0					
	Number of participants or units						
	delivered:	2,500.00					
	Measure life (months):	0.00					
		0.00					
	Number of participants or units 2005						
	Number of Participants or units						
	delivered life-to-date	2,500.00					
		2,000100					
	TRC Results:			Reporting Year		Life-to-date TRC	
В.				<u></u>	2005 TRC Results	Results:	
1	TRC Benefits (\$):		\$	-		\$-	
2	TRC Costs (\$):						
		ogram cost (less incentives):	\$	992.40		\$ 992.40	
		ire Costs (Equipment Costs)		-		\$ -	
	moremental medea	Total TRC costs:		992.40	¢ _	\$ 992.40	
	Net TRC (in year CDN \$):	Total TRC Costs.	э -\$	992.40	<del>5</del> -	-\$ 992.40	
	Net TRC (III year CDN \$).		- <b>⊅</b>	992.40	<u></u> р -	-9 992.40	
	Benefit to Cost Ratio (TRC Benefits/TR	C Costs):	0.00		#DIV/0!	\$-	
C.	Results: (one or more category may ap	עומכ			Cumulativ	ve Results:	
0.	(				oundativ	e Results.	
	Conservation Programs:						
		Summer	0.00		Report Winter Demand (kW)		
		Winter	0.00			00	
			0.00			Cumulative Annual	
		lifecycle		in year	Cumulative Lifecycle	Savings	
	Energy saved (kWh):	0.00		0.00	0	0	
					2005 Lifecycle	2005 Annual	
	Other resources saved :				. <u></u>	lI	
	Natural Gas (m3):	0		0			
	Water (I)	0		0			
	Water (i)	0		0			
	Demand Management Programs:						
	Controlled load (kW)						
	Energy shifted On-peak to Mid-peak (k)	,					
	Energy shifted On-peak to Off-peak (kV	,					
	Energy shifted Mid-peak to Off-peak (kl	Wh):					
	Demand Response Programs:						
	Dispatchable load (kW):						
	Peak hours dispatched in year (hours):						
	i can neare alepatenea in year (neare).						
	Power Factor Correction Programs:						
	Amount of KVar installed (KVar):						
	Distribution system power factor at beg	ining of vear (%).					
	Distribution system power factor at end						
	ensuitori system power ractor at enu	5. Jour (70).					

Peak load savings (kW):						
	lifecycle		in year			
Energy savngs (kWh):						
Distributed Generation and Load Di	splacement Programs:					
Amount of DG installed (kW):						
Energy generated (kWh):						
Peak energy generated (kWh):						
Fuel type:						
Other Programs (specify):						
Metric (specify):						
Program Costs*:			Reporting Year	2005 Costs	<u>Cumla</u>	ative Life to Date
Utility direct costs (\$):	Incremental capital:	\$	<u></u>		\$	-
Includes Measure's Cost - ensure full cost						
of measure entered in TRC!L15	Incremental O&M:	\$	992.40		\$	992.4
	Incentive:	\$	-		\$	-
	Total:	\$	992.40	\$-	\$	992.4
		•			•	
	Incremental capital:	\$	-		\$	-
Utility indirect costs (\$):	1		-		\$	-
Utility indirect costs (\$):	Incremental O&M:	\$			-	
Utility indirect costs (\$):	1	\$ \$ \$	- 992.40	\$-	\$	- 992.4

Advertised to community and promoted locally.

<sup>1</sup> units times the net present value per unit b <sup>2</sup> component of the TRC costs. However, payments made