

Cornerstone Hydro Electric Concepts Association Inc.

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

Conservation and Demand Management 2008 Annual Report

1.0 Introduction:

This 2008 Annual Report summarizes the activity and successes of the Cornerstone Hydro Electric Concepts (CHEC) Group with respect to conservation and demand management initiative undertaken as part of the third tranche funding. Included in this document are the sixteen (16) individual reports from the Local Distribution Companies (LDCs) that formed the CHEC Group.

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. At the end of 2007 seven LDCs had exhausted their third tranche funding and continued to support the conservation effort by participating in the OPA programs. The remaining nine LDCs delivered third tranche funded projects in 2008.

The individual reports for the LDCs that delivered third tranche funding in 2008 provides to the reader a better understanding of the activity of each utility while this summary report provides an overview of the impact of the combined effort.

The additional Appendix D requested from the Ontario Energy Board (OEB) required each LDC, including those which completed their programs in previous years, to file a report. To ensure that the 2008 report reflects the full programs the reports for all LDCs contain the minimum of the following documents:

- Appendix A provided for 2008 or last year of plan delivery if completed prior to 2008
- Appendix C which lists the names of programs delivered over the life of the plan
- Appendix D the summary of all years of the plan and which breaks out "Low Income"
- Appendix B for each project – where a project was completed in prior years the Appendix has been reduced to control the number of pages.

Within the 9 LDCs with fund remaining for 2008, there were a total of 25 initiatives worked on in 2008. This volume of programs in 2008 reflects the completion of the plan by many of the LDCs and the reduced amount of funds for investment in the year.

On the population of 25 initiatives, 20% had a positive TRC. Initiatives continued to focus on education, studies to prepare customers for continued energy conservation and of course continuation of the partnerships that were started in the first years of the CDM program.

In 2008 the LDCs continued to be actively engaged in the Ontario Power Authority (OPA) funded programs for conservation and demand management. The availability of these funds and programs allowed the LDCs to continue to provide programs supporting development of the conservation culture.

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 Participating Members:

The 2008 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

Where a LDC had completed the program in previous years their statistics are restated to maintain the completeness of the report.

3.0 Evaluation of the CDM Plan:

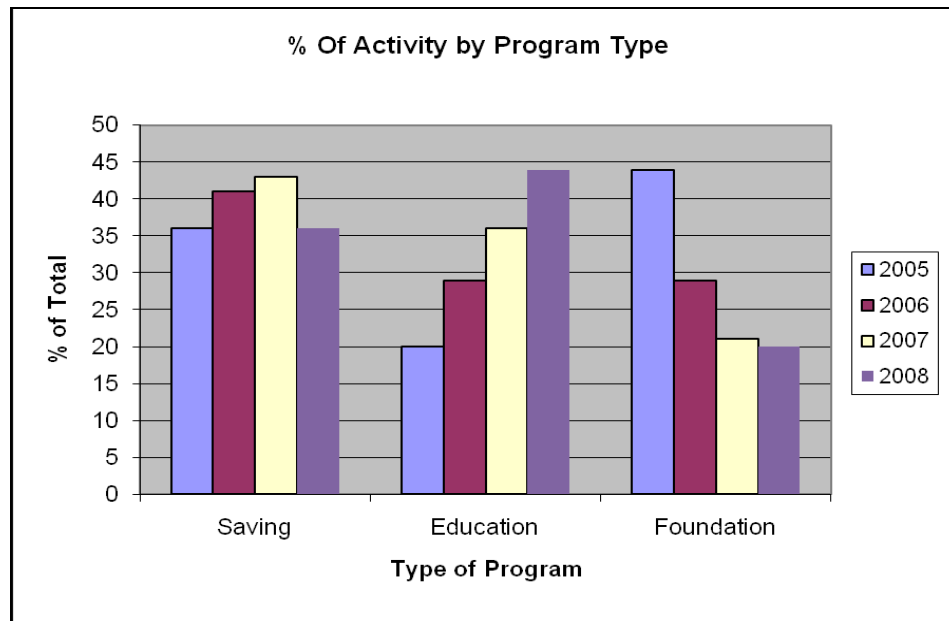
2008 Portfolio: The 9 LDCs with third tranche funding remaining collectively undertook a total of 25 initiatives in 2008. These programs fell within three categories:

- 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, school programs, etc,
- Foundation: Preparatory work for future programs that include: program research and development, energy audits, system studies, demonstration projects, partnerships, etc. In many instances the continuation of these programs were based on directions set in the first two years.

The 2008 initiatives represent a total combined “Utility Cost” of \$305,200 representing the majority of the third tranche funds that remained.

Figure 1 illustrates program makeup from 2005 to 2008. Over the three year period there was strong support for education programs and for saving programs. In many instances programs were delivered with a dual focus allowing savings to be achieved while providing education at the same time. The Foundation programs were highest early in the programs as studies were initiated and completed that helped set the base for future programs and customer activity.

Figure 1



Savings Programs:

Again in 2008 savings programs continued to focus on local partnerships and delivery channels. The programs continued to partner with community agencies such as social housing, school boards and community based environmental networks. The use of product incentives, delivered through partner agencies or directly to customers, was utilized to provide measures to targeted populations. With these products often educational material was also provided increasing the conservation awareness and knowledge.

Education Programs: The CHEC LDC’s continued their support of the education portfolio and the School Boards in their service territories. A couple of programs focused directly on the school sector with programs delivered in 100% of the schools in the service territories. All member LDCs remain responsive to conservation information & support requests from area schools.

Foundation Program: As would be expected, in 2008 the numbers of “foundation” programs were on a decline. The 2008 “foundation” programs contained audit support for customers, provision of interval meter and data to provide specific information to the customer for savings and the completion of system optimization studies. While in many instances implementation has not occurred it is anticipated that the information and audits provided will encourage participation in programs such as ERIP.

Net TRC Results: The net TRC result of the programs delivered by the nine LDCs in 2008 is -\$120,800. The overall negative in 2008 TRC reflects a number of audit completions as well as continued support to education projects over the course of the year. With the framework of the 2008 programs a total of 2,642,800 kWh (lifecycle) have been saved and the education and audit work will assist with program and technology implementation moving forward.

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. As noted previously the report for LDCs that had completed their programs prior to 2008 are included to ensure the completeness of the combined CHEC CDM Report.

Low Income Projects:

For the 2008 report the OEB requested that programs with impact on low income customers be identified and the statistics broken out. The combined effort of the member LDCs resulted in an expenditure of \$146,800 on programs that provided specific benefits to low income with over 7,800 measures/contacts made within the term of the programs.

The low income expenditures, kWh saving and measures/contacts reported do not include impacts from coupon or general support programs. For example school based programs delivered to the general population provided benefits to a sector of low income however, these contacts were not accounted for in the low income reporting. It is anticipated that the benefits provided to this sector are greater than reported.

5.0 Lessons Learned Over the Duration of the CDM Plan:

Partnerships and Sharing: LDCs have developed a number of partners within and outside of their communities to assist with the delivery of conservation programs. The ability to engage third party partners or contractors have been instrumental in the delivery of programs while controlling in-house resources.

The delivery channels created with the third tranche funding and the LDC support systems established have facilitated the successful continuation of LDCs in the delivery of CDM programs. These channels have continued to be important in the delivery and support of OPA programs which provide opportunities for our customers to conserve and for LDCs to reinforce the conservation culture.

CHEC members continue to share information between members and also with other LDCs. The hiring of a staff position by CHEC (in 2009) to continue to facilitate the combined effort of member LDCs is consistent with the success achieved during the third tranche programs.

Availability of Funds: The availability of funds at the local level to support conservation initiatives increased the penetration of projects in the service territories. On-going funding at the local level (through custom programs or community initiative funds) to ensure the continuation of the current momentum should prove beneficial to the conservation movement and the conservation culture that has developed.

The importance of multi-year financing cannot be understated when planning the development and delivery of programs. The third tranche funding allowed LDCs to maintain programs and activity over multiple years, reinforcing the conservation message and developing delivery channels. Moving forward the continued support of the government to provide stable financing and systematic and cost effective approvals will be important to effective program delivery.

TRC: The use of TRC is incorporated into the OPA program structure and provides a benchmark for project design. While TRC is one useful tool, the use of TRC does not adequately evaluate the benefits and impacts of general support and education programs. Without a delivered measure the impact of these programs is not determined in any manner. While education and general conservation information assists with the results of other programs it is unfortunate that there is not a defined value assigned to customer contact and engagement within the scope of program evaluation.

The further development and understanding of TRC and workshop support for LDCs, if there continues to be an expectation for design of programs, will be important. The manner in which associated costs, measure benefits and third

party costs are accounted for will be important in ensuring appropriate program design and evaluation.

Third Tranche and OPA Programs: Third tranche served as a precursor to the OPA programs and the existing model for conservation and demand management program delivery. While many of the third tranche programs were designed at the local level, the industry has benefited from provincially based programs designed by the OPA and delivered locally. A portfolio of both provincial and local programs provides cost effective design and per unit cost for large scale programs while providing local control and local programming for specific needs.

The Third Tranche funding was provided from the LDC rate adjustment and reinvested into the conservation portfolio. This funding, while raised locally and invested locally, was primarily aimed at providing a benefit to the entire electricity grid. While this benefit is shared by all, the costing model moving forward should more closely focus on providing the funding on a global perspective to better reflect the system nature of the benefit.

Customer Readiness: The residential customers have been responsive to programs over the delivery period. The awareness to energy conservation, due to the third tranche programs and other societal pressures has certainly increased over the last three to four years. The ability for LDCs to provide programs over the past four years has certainly assisted with this transition

The industrial and commercial customers continue to be difficult to engage. The resources within the company to focus on conservation initiatives have been lacking over the delivery period. Large and small companies all appear to be impacted by the lack of internal resources as well as the downturn in the economy. Programs aimed at providing resource assistance could improve the implementation of programs in this sector or the development of programs and program evaluations that are “turn key” in nature. It is realized however, by all involved conservation projects, that it takes commitment and time by the customer to implement. Helping the customer manage this time commitment may increase the engagement of this sector in the programs.

Utility Resources: Utility resources were challenged to meet the combined requirements of third tranche and OPA programs. In many instances the LDCs contracted incremental internal resources or hired external consultants to assist with program management and delivery. Moving forward, depending on the legislative direction set for conservation, the ability of LDCs to develop and maintain reliable resources (both internal and external) will be critical in the on-going delivery of CDM. To best position these resources, the mechanism for

continued LDC funding and cost effective approvals and reporting will be required.

6.0 Conclusion:

With this report the delivery of programs with third tranche funding has been completed pending some minor (committed) expenditure of remaining funds.

The third tranche funding allowed for local initiatives that provided kWh savings and education opportunities aimed at preparing customers for future initiatives. These programs, the resources and knowledge developed and the general awareness of the “conservation culture” will continue to benefit the delivery of CDM programs moving forward.

7.0 Appendices:

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Individual Utility CDM 2008 Annual Report RP-2004-0203/EB-2004-0502

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16984 Highway#12 P.O. Box 820
Midland Ontario L4R 4P4

1.0 Introduction:

Midland Power Utility Corporation submits this report as per the reporting requirements of the Ontario Energy Board (OEB) with respect to Third Tranche Funding.

2.0 Information Provided:

Third Tranche expenditures by Midland Power Utility Corporation were completed prior to 2008 and a final report was previously provided to the OEB.

Attached to this letter of transmittal please find:

- CHEC Overview Report
- Appendix D – new requirement summarizing the program over the entire period
- Previously provided Summary Report including:
 - Appendix A
 - Appendix C
 - Appendix B for each program

3.0 CHEC Overview Report:

Consistent with past reporting, an overview report outlining the programs delivered by the CHEC LDCs has been provided and forms part of our annual report.

Yours very truly,

MIDLAND POWER UTILITY CORPORATION

A handwritten signature in black ink, appearing to read 'Phil Marley', is written over a horizontal line.

PHIL MARLEY, CMA
President & CEO
Tel: (705)526-9362 ext 204
Fax: (705) 526-7890
E-mail: pmarley@midlandpuc.on.ca

CDM PLAN

ANNUAL REPORT

FOR THE YEAR ENDED DECEMBER 31, 2007

INTRODUCTION:

Midland Power Utility Corporation (MPUC) is pleased to submit its Annual Report on the progress made in applying the third tranche (\$234,433) monies to conservation and demand management programs. Attached to this report is Appendix A – Evaluation of the CDM Plan, along with Appendix B – Discussion of the Program for the individual programs. MPUC has submitted its conservation and demand management plan with the CHEC Group and received a final order dated February 8, 2005 and an order dated August 2, 2006 reallocating funds approving spending. MPUC has also transferred less than 20% of the approved budget between programs.

SUMMARY OF PROGRAMS:

Program	February 2005 Order	August 2006 Order	20% Cumulative Transfer - 2007	Program Budget Dec 31, 2007
Customer Survey	\$ 1,000.00	\$ 1,000.00	\$ 185.26	\$ 1,185.26
Conservation Website	\$ 6,100.00	\$ 6,100.00	-\$ 1.61	\$ 6,098.39
Education/Promotion	\$ 12,333.00	\$ 12,333.00	\$ 2,079.14	\$ 14,412.14
Light Bulb Giveaway	\$ 0.00	\$ 25,000.00	-\$ 554.93	\$ 24,445.07
Partnership/Sponsorship	\$ 15,000.00	\$ 30,000.00	-\$ 2,952.41	\$ 27,047.59
System Optimization	\$ 65,000.00	\$112,800.00	\$ 1,160.95	\$113,960.95
Renewable Energy Study	\$ 40,000.00	\$ 2,200.00	-\$ 109.46	\$ 2,090.54
Smart Mtr/Pay-as-you-go	\$ 75,000.00	\$ 25,000.00	\$ 314.80	\$ 25,314.80
Signal/Str Lite Efficiency	\$ 20,000.00	\$ 20,000.00	-\$ 121.75	\$ 19,978.25
TOTALS	\$234,433.00	\$234,433.00	\$ 00.00	\$234,433.00

In 2005, MPUC transferred \$25,000 to the Light Bulb Giveaway Program through the 20% cumulative transfer provision in accordance with the Order of the OEB in February 2005. This transfer, coupled with the 2006 transfers above of \$3,740.16 represents a 12% cumulative fund transfer between programs. Based on the above program budgets, MPUC has incurred the following expenses:

SUMMARY OF EXPENDITURES PER YEAR VS. BUDGET

Program	Program Budget	2005 Expenditures	2006 Expenditures	2007 Expenditures
Customer Survey	\$ 1,185.26	\$ 23.09	\$ 1,162.17	\$ 00.00
Conservation Website	\$ 6,098.39	\$ 2,924.35	\$ 3,174.04	\$ 00.00
Education/Promotion	\$ 14,412.14	\$ 6,098.90	\$ 1,151.13	\$ 7,162.11
Light Bulb Giveaway	\$ 24,445.07	\$ 24,445.07	\$ 00.00	\$ 00.00
Partnership/Sponsorship	\$ 27,047.59	\$ 2,006.95	\$ 25,040.64	\$ 00.00
System Optimization	\$113,960.95	\$ 17,050.83	\$ 95,739.52	\$ 1,170.60
Renewable Energy Study	\$ 2,090.54	\$ 2,090.54	\$ 00.00	\$ 00.00
Smart Mtr/Pay-as-you-go	\$ 25,314.80	\$ 6,691.43	\$ 18,623.37	\$ 00.00
Signal/Str Lite Efficiency	\$ 19,978.25	\$ 11,039.39	\$ 7,603.34	\$ 1,235.52
TOTALS	\$234,433.00	\$ 72,370.55	\$152,494.22	\$ 9,568.23

DISCUSSION OF PROGRAMS:**#1. NAME OF PROGRAM: CUSTOMER SURVEY****DESCRIPTION OF PROGRAM:(intent, design, delivery, partnerships and evaluation)**

The intent of this program is to create an active conservation culture. Engaging the community as a whole and fostering the conservation culture through its infancy are the expected yield from the program. Using economies of scale the survey costs are shared with other members of the CHEC group and the increased buying power of the group will leverage more value to customers and shareholders.

The importance of customer feedback and opinion cannot be underestimated. The CHEC Group seized the opportunity of combining resources to produce one uniform survey which greatly reduced costs and increases the depth and validity of the survey findings.

Survey success is often limited due to the rather small sample of potential customers, however, the joint survey efforts of our group will maximize the value of the survey and provide the necessary background and baseline information to enable member LDCs to make better decisions on program design and targeting funds to programs of customer value. These surveys may also be used to establish baselines for assessment of future program impacts.

TOTAL PROGRAM BUDGET per Order Feb 2005:	\$1,000.00
Transfer From Education & Promotion Dec 2006	<u>\$ 185.26</u>
TOTAL PROGRAM BUDGET	\$1,185.26

COSTS INCURRED

Per RRR submitted to OEB Jan 31/06	\$23.51	
Additional Year End Adjustments	<u>(.42)</u>	
Balance At December 31, 2005:		\$ 23.09

Expenditures 2006	<u>\$1,162.17</u>
Per RRR submitted to OEB Jan/07	\$1,185.26

TOTAL PROGRAM COST:	\$1,185.26
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PROJECT COMPLETED December, 2006

#2. NAME OF PROGRAM: WEBSITE**DESCRIPTION OF PROGRAM:(intent, design, delivery, partnerships and evaluation)**

The intent of this program is to create an active conservation culture. Engaging the community as a whole and fostering the conservation culture through its infancy are the expected yield from the program. Using economies of scale the website costs are shared with other members of the CHEC group and the increased buying power of the group will leverage more value to customers and shareholders.

A conservation website is a significant avenue of opportunity to educate, inform, advertise and reach out to energy consumers. Development and maintenance costs would be shared as would contribution requirements resulting in a more robust and interactive website. This website would also be linked to MPUC's main website which would be enhanced by the availability of the combined resources. Components of the website would range from energy savings concepts to various industries and load profile services.

Savings could be measured on up-take of programs, message penetration analysis and reports on the number of hits and website traffic.

PROGRAM BUDGET per Order Feb 2005:	\$6,100.00
Transfer to Education & Promotion	<u>\$ 1.61</u>
TOTAL PROGRAM BUDGET	\$6,098.39

COSTS INCURRED**Expenditures - 2005**

Per RRR submitted to OEB Jan 31/06	\$2,926.92	
Additional Year End Adjustments	<u>(2.57)</u>	
Balance At December 31, 2005:		\$2,924.35

Expenditures -2006

Per RRR submitted to OEB Jan/07		<u>\$3,174.04</u>
		\$6,098.39

TOTAL PROGRAM COST: **\$6,098.39**

PROJECT COMPLETED **December, 2006**

#3. NAME OF PROGRAM: EDUCATION/PROMOTION

DESCRIPTION OF PROGRAM:(intent, design, delivery, partnerships and evaluation)

The intent of this program is to create an active conservation culture. Engaging the community as a whole and fostering the conservation culture through its infancy are the expected yield from the program. Using economies of scale the education and promotion costs are shared where possible with other members of the CHEC group and the increased buying power of the group will leverage more value to customers and shareholders.

Advancing the importance of understanding conservation to customers in all market sectors and in turn facilitating the programs to permit customers acting on the energy saving opportunities requires significant effort and consistent marketing. Common messages and approaches are implemented to achieve greatest possible penetration. It is also very important that LDC staff understand how the various activities included in the CDM plan will not only help the consumer but the LDC as well. The level of knowledge the staff has on the benefits of various programs can significantly affect the success level of any program.

Although savings cannot be quantitatively measured, it is through the education and promotion activities that the consumer will take up the conservation culture and apply this culture to their everyday lives.

In 2005 the brochures produced by the Ministry of Energy – “Conserve Energy and Save Money” were purchased and were provided to all residential and general service customers along with a CFL. The costs of these brochures, which supported the lightbulb give away, are included in the lightbulb program.

In 2006, MPUC incurred additional costs for the Ministry of Energy brochures which supported the lightbulb giveaway. Additional costs relating to the OPG programs and a Teach the Teacher program (which was completed in 2007) were incurred in 2006. MPUC along with other LDCs have partnered with the Simcoe County District School Board to bring the ECO Schools program to the areas we serve. This program is not funded through any existing process and is an opportunity to bring the CDM component into the Grade 5 curriculum thereby instilling energy conservation into the youth of today ensuring the next generation adopts conservation as a part of their everyday activities. MPUC provided training for the teachers who will deliver this program to the schools. MPUC purchased conservation kits in 2007 which were distributed to the Wye Marsh, schools and trade shows.

TOTAL PROGRAM BUDGET per Order Feb 2005:		\$12,333.00
TRANSFER TO CUSTOMER SURVEY PROJECT Dec 2006	\$ -185.26	
TRANSFER FROM CONSERVATION WEBSITE Dec 2006	\$ 1.61	
TRANSFER FROM LIGHTBULB GIVEAWAY	\$ 554.93	
TRANSFER FROM PARTNRSHP/SPONSORSHIPS Dec 2006	\$ 2,952.41	
TRANSFER TO SYSTEM OPTIMIZATION	\$ -1,160.95	
TRANSFER FROM RENEWABLE ENERGY STUDY Dec 2006	\$ 109.46	
TRANSFER TO SMART METERING Dec 2006	\$ -314.80	
TRANSFER FROM STREET LIGHTS Dec 2007	\$ 121.75	
NET TRANSFERS		<u>\$ 2,079.14</u>
TOTAL PROGRAM BUDGET		<u>\$14,412.14</u>

COSTS INCURRED**Expenditures - 2005**

Per RRR submitted to OEB Jan 31/06	\$6,104.09	
Additional Year End Adjustments	<u>(5.19)</u>	
Balance At December 31, 2005:		\$ 6,098.90

Expenditures - 2006

		\$ 1,151.13
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Per RRR submitted to OEB Jan/07		\$ 7,250.03
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Expenditures – 2007

Per RRR Submitted to OEB Jan 31/07		\$ 7,162.11
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TOTAL PROGRAM BUDGET

	<u>\$14,412.11</u>
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PROJECT COMPLETED**August, 2007****#4. NAME OF PROGRAM: Lightbulb Giveaway****DESCRIPTION OF PROGRAM:(intent, design, delivery, partnerships and evaluation)**

Compact Fluorescent Lamps (CFLs) have for the past 15 years been proven energy saving devices over their conventional incandescent light bulbs. This is a residential consumer and small business program targeting increased awareness and use of CFLs in this market. CFLs achieve up to 75% electricity savings over conventional incandescent bulbs and last up to 10 times longer. If used in applications where light is required a minimum of 4 hours per day or more typical paybacks range from .7 to 3 years.

Program design will include lamp specifications, procurement, distributions, etc. Key considerations include lamp selection to ensure light quality and life expectancy is achieved.

TOTAL PROGRAM BUDGET : transferred from Smart Metering	\$25,000.00
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COSTS INCURRED

Per RRR submitted to OEB Jan 31/06	\$24,515.63	
Additional Year End Adjustments	<u>(70.56)</u>	
At December 31, 2005:		\$24,445.07

PROJECT COMPLETED**December, 2005****#5. NAME OF PROGRAM: Partnership/Sponsorship Programs****DESCRIPTION OF PROGRAM:(intent, design, delivery, partnerships and evaluation)**

The intent of this program is to create special programs for low-income families provided through strategic partnerships. Because electricity prices have the potential to impact on low-income consumers the most, special consideration must be contemplated for this group. Working with local community organizations, programs will be identified and developed to provide needed information and services to this group so that they can take actions that will have the most desirable outcome for them. Because community organizations already know the needs of this group, it is envisioned that these programs would be delivered through these organizations, with support by the LDCs.

Program #1: Delivery of 530 CFL lightbulbs to the Social Housing Services Corporation for installation in the low income housing in the Midland community. The costs of this program have been combined with the Lightbulb Give Away Program

Program #2: MPUC partnered with the Wye Marsh Wildlife Centre to support the construction of a wind turbine project which would be used as an educational tool in renewable energy and the creation of a conservation culture.

TOTAL PROGRAM BUDGET per Order Feb 05:	\$15,000.00
Transfer Per Order August 2, 2006	<u>\$15,000.00</u>
PROGRAM BUDGET 2006	<u>\$30,000.00</u>
TRANSFERRED TO EDUCATION AND PROMOTION	<u>\$ 2,952.41</u>
TOTAL PROGRAM BUDGET:	\$27,047.59

COSTS INCURRED**Expenditures - 2005**

Per RRR submitted to OEB Jan 31/06	\$ 1,953.26	
Additional Year End Adjustments	<u>53.69</u>	
At December 31, 2005:		\$ 2,006.95

Expenditures 2006

Per RRR submitted to OEB Jan/07	\$25,040.64
	\$27,047.59

PROJECT COMPLETED**December, 2006****#6. NAME OF PROGRAM: System Optimization & Implementation****DESCRIPTION OF PROGRAM:(intent, design, delivery, partnerships and evaluation)**

The intent of this program is to target reductions in distribution system losses. The overall benefits of this program will be to identify and implement projects that will improve/reduce distribution system losses and improve system efficiency. Supporting corrective action either by taking direct control over an upgrade or support customer action will result in system demand reductions and relieve network capacity, on both a local and system wide basis.

Program #1: Transformer and other loss reductions: Infrared Study

Through non-invasive investigations, this initiative will identify overloaded equipment and investigate operational and equipment improvement opportunities. This study will also investigate the integrity of the overhead and underground distribution systems for areas of hot spots which once repaired, will reduce line losses and improve system reliability. This study will also investigate transformers owned by MPUC's large customers to identify overloaded equipment for customer improvement opportunities.

Program #2: Line Loss Reductions: System Optimization Study & Phase Balancing

This study will investigate and identify the benefits of optimizing the distribution system. It will indicate areas of losses resulting from undersized conductors and undersized transformers. It will further indicate where improvements may be made to the system through the implementation of proper feeder balancing. The study will recommend system changes which will improve line losses and system reliability. As a result of this study MPUC determined that the reconstruction of the 23 pole span of the 98-M4 main subtransmission feeder would provide for significant savings by installing an upgraded conductor. The cost of the upgraded conductor was \$158,000 and after completion of the TRC model MPUC determined that the savings would substantiate the increased expense.

Program #3: Voltage Conversion Substation Upgrade

This study will investigate the benefits of increasing the distribution system voltage which will result in lower line losses, and may result in the elimination of either one or two of the existing municipal substations. Due to the high density of MPUC's service area, this study concluded that the voltage conversion of the existing 4.16kv system would not offset the high cost of conversion.

Program #4: Substation Study

This study will investigate the existing condition of the municipal substations and provide a report on applicable upgrades to the substations to maximize system reliability. In addition, this study has investigated the effect of high efficiency transformers over low efficiency transformers.

Program #5: Load Data Study

This study will satisfy the OEB requirement for an LDC-specific load shape analysis using the generic load shapes (residential and general service) as identified by the Province-wide group which included sampling design, customer selection and load shape analysis.

CDM PROGRAM BUDGET per Order Feb 2005	\$ 65,000.00
Transfer Per Order August 2, 2006	<u>\$ 47,800.00</u>
PROGRAM BUDGET	\$112,800.00
TRANSFER TO EDUCATION AND PROMOTION	<u>\$ 9.65</u>
TOTAL PROGRAM BUDGET	\$112,790.35

COSTS INCURRED**Expenditures - 2005**

Per RRR submitted to OEB Jan 31/06	\$17,078.20	
Additional Year End Adjustments	<u>(27.37)</u>	
At December 31, 2005:		\$ 17,050.83

Expenditures – 2006		\$ 95,739.52
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Allocation between programs in 2007		<u>\$ 1,170.60</u>
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TOTAL PROGRAM EXPENSES		\$113,960.95
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PROJECT COMPLETED **August, 2007**

#7. NAME OF PROGRAM: Renewable Energy Study

DESCRIPTION OF PROGRAM:(intent, design, delivery, partnerships and evaluation)

A study or studies will be conducted to identify and determine the feasibility of one or more local renewable energy projects. Midland's territory and customers present opportunities which will be canvassed for a first pass of possible implementation.

Program #1: Wind Study

Investigation of the concept this renewable energy source will be conducted to determine what applications can be successfully implemented in Midland. Renewable energy sources, and in particular wind power is a central focus in the supply diversity of the Ontario Government. Investigations will be conducted to determine appropriate areas where this concept can be promoted where they fit local demographic needs. Local schools will also be contacted to determine if the development of wind studies can be integrated with their program of science studies. Partnerships will be investigated to determine if a program can be designed to enhance the educational aspect of this energy source.

TOTAL PROGRAM BUDGET per Order Feb 2005:	\$ 40,000.00
Transfer Per Order August 2, 2006	<u>\$-37,800.00</u>
PROGRAM BUDGET	\$ 2,200.00
TRANSFER TO EDUCATION AND PROMOTION	<u>\$ - 109.46</u>
TOTAL PROGRAM COST	\$ 2,090.54

COSTS INCURRED

Per RRR submitted to OEB Jan 31/06	\$2,107.38	
Additional Year End Adjustments	<u>(16.84)</u>	
At December 31, 2005:		\$ 2,090.54

PROJECT COMPLETED **December, 2006**

#8. NAME OF PROGRAM: Smart Metering

DESCRIPTION OF PROGRAM:(intent, design, delivery, partnerships and evaluation)

Pilot studies will be conducted to investigate applicability and optimum introduction of smart meters. Steps are to include the ongoing evaluation of technologies appropriate for retrofit applications including, literature and product reviews, meetings, technical and economic assessment along with the development of the plan.

Midland, along with other members of the CHEC group have joined the OUSM group, who have coordinated the multiple technologies. This will provide Midland with the ability to gain access to documented test results from a variety of vendors that were all tested using exactly the same testing process. This has provided economies of scale as ultimately all LDCs will need to compare and spend time separating the claims of vendors from the actual services and deliverables they can provide. The ability to share information and questions with other members of the group provide additional benefits in the implementation planning as well as customer education and systems integration issues. This investigation and testing of system has provided Midland with appropriate information to purchase meters that can be used with smart metering technology, but in the interim have allowed MPUC to investigate various technologies and products to become familiar with the smart metering infrastructure. These meters, although can be used for smart metering infrastructure have allowed replacement initiatives to be put in place thereby avoiding stranded assets.

TOTAL PROGRAM BUDGET per Order Feb 2005:	\$75,000.00
Transfer per Order August 2, 2006	<u>-\$50,000.00</u>
PROGRAM BUDGET	\$25,000.00
TRANSFERRED FROM EDUCATION AND PROMOTION	<u>\$ 314.80</u>
TOTAL PROGRAM BUDGET	\$25,314.80

COSTS INCURRED**EXPENDITURES – 2005**

Per RRR submitted to OEB Jan 31/06	\$ 6,613.82	
Additional Year End Adjustments	<u>77.61</u>	
At December 31, 2005:		\$ 6,691.43

EXPENDITURES – 2006

Per RRR submitted to OEB Jan/07	<u>\$18,623.37</u>
TOTAL PROGRAM COSTS	\$25,314.80

PROJECT COMPLETED: December, 2006

#9. NAME OF PROGRAM: Street Lights

DESCRIPTION OF PROGRAM:(intent, design, delivery, partnerships and evaluation)

Throughout our local municipality street lights will be changed from 200 watt incandescent bulbs to 70 and 100 watt high pressure sodium fixtures as part of the energy conservation program with the Town of Midland. Anticipated results will include savings in consumption over conventional lights and savings in maintenance costs as the life expectancy of the new bulbs is 8-10 times that of conventional lights. Activities for the project include surveying the municipality about their use of and opinions about lighting, concise and objective information and tools for decision makers about product performance, energy and economics, purchasing of new lighting, and the installation of the new lights.

TOTAL PROGRAM BUDGET - per Order Feb 2005:	\$20,000.00
Reallocation between programs	<u>\$ -121.75</u>
TOTAL PROGRAM	\$19,978.75

COSTS INCURRED**EXPENDITURES - 2005**

Per RRR submitted to OEB Jan 31/06	\$11,047.74	
Additional Year End Adjustments	<u>(8.35)</u>	
At December 31, 2005:		\$11,039.39

EXPENDITURES – 2006

Per RRR submitted to OEB Jan/07 **\$ 7,603.34**

EXPENDITURES – 2007 **\$ 1,235.52**

TOTAL PROGRAM BUDGET **\$19,878.25**

PROJECT COMPLETED: August, 2007

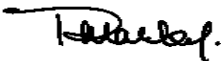
EVALUATION OF CDM PLAN:

See attached Appendix "B" for each program above-noted and Appendix "A" an Evaluation of the overall CDM Plan.

LESSONS LEARNED/CONCLUSIONS/ GENERAL COMMENTS:

1. Administration and coordination of programs and the supply of reporting documentation costs have been allocated to all programs on a prorata sharing, based on the gross amount allocated to each program in the year. MPUC believes that more administrative type costing will be incurred on larger programs. Once the program has been completed no future administration costs will be allocated to the program.
2. For the year 2005, the net TRC is a positive value of \$114,000, mainly due to the delivery of the lightbulb program. In 2006, the net TRC is a positive value of \$271,863 for a cumulative positive TRC of \$394,859. In 2007, the net TRC is a negative value of \$5935. The majority of programs delivered through the third tranche spending in 2006 and 2007 were investigations/studies and educational/promotional programs and consequently, would not have any kwh savings attributed to their actual program. However, it is expected that though these programs the conservation culture will be fostered thereby generating the savings that are not measured. MPUC participated in the OPA coupon programs in the fall and spring of 2006 which accounts for the increase in the net TRC values for 2006.
3. Overall expenditures per kWh saved is \$0.02 which is low. Midland Power has initiated over 15,000 contacts with users of electricity in the Town of Midland. We will continue to foster a conservation culture as we participate in programs in the future.
4. MPUC partnered with the Wye Marsh Wildlife Conservation group to construct a wind turbine at the Wye Marsh. This turbine will be used as an educational tool for schools and the general public. This partnerships build on the conservation education with the residents of Midland.
5. As smart metering implementation becomes reality, MPUC believes that the combined focus of the UtilAssist OUSM Group has provided great economies of scale for smaller LDCs. Through this group we are able to test various technologies and develop standards as a group as opposed to "going it alone".
6. The 98-M4 Reconditioning (system optimization) project was completed in 2006. MPUC total costs for the incremental upgrade were \$158,000 of which \$60,000 was allocated from the 3rd Tranche CDM monies (\$58,600 in 2006 and \$1200 in 2007)
7. All Programs were completed by August, 2007.

Respectfully Submitted,



Phil Marley, CMA
President & CEO
MIDLAND POWER UTILITY CORPORATION

Appendix D - Total Life Evaluation of the CDM Plan

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

	5 Cumulative Totals Life-to-date	Residential	6 Low Income	Commercial	Institutional	Industrial	Agricultural	LDC System	4 Smart Meters	Other #1	Other #2
Net TRC value (\$):	\$ 384,894	\$ 357,967	\$ 13,890	\$ -	\$ 22,517	\$ -	\$ -	\$ 4,410	\$ -	\$ -	\$ -
Benefit to cost ratio:	2.22	5.41	6.40		7.96			1.02			
Number of participants or units delivered:	15,890	15,802	700		87			1			
Lifecycle (kWh) Savings:	13,300,401	8,034,390	277,830		697,960			4,568,051			
Total kWh saved (kWh):	1,699,367	1,436,067	70,534		34,897			228,403			
Total peak demand saved (kW):	220	166	0		8			47			
Total kWh saved as a percentage of total kWh delivered (%):	0.24%										
Peak kW saved as a percentage of LDC peak kW load (%):											
1 Gross C&DM expenditures (\$):	\$ 234,433	\$ 73,188	\$ 2,444	\$ -	\$ 19,878	\$ -	\$ -	\$ 116,051	\$ 25,315	\$ -	\$ -
2 Expenditures per kWh saved (\$/kWh):	\$ 0.0176	\$ 0.0091	\$ 0.0088	\$	\$ 0.0285	\$	\$	\$ 0.0254		\$	\$
3 Expenditures per kW saved (\$/kW):	\$	\$	\$	\$	\$	\$	\$	\$		\$	\$
Utility discount rate (%):											

1 Expenditures are reported on cumulative basis.

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

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

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

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

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

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 2007	Residential	Commercial	Institutional	Industrial	Agricultural	LDC System	⁴ Smart Meters	Other #1	Other #2
Net TRC value (\$):	384,893.72	(5,935.85)	\$ (7,162)	\$ -	\$ 1,226	\$ -	\$ -	\$ -		\$ -	\$ -
Benefit to cost ratio:	2.22	0.20	0.00	0.00	6.21	0.00	0.00	0.00		0.00	0.00
Number of participants or units delivered:	15,890	5	0	0	4	0	0	1		0	0
Lifecycle (kWh) Savings:	13,300,401.78	36,480	0	0	36,480	0	0	0		0	0
Report Year Total kWh saved (kWh):	1,699,368.43	1,824	0	0	1,824	0	0	0		0	0
Total peak demand saved (kW):		2	2	0	0	0	0	0		0	0
Total kWh saved as a percentage of total kWh delivered (%):	0.245%	0.001%	0.000%	0%	0.159%	0%	0%	0%		0%	0%
Peak kW saved as a percentage of LDC peak kW load (%):		0.006%	0.005%	0%	0.001%	0%	0%	0%		0%	0%
¹ Report Year Gross C&DM expenditures (\$):	234,433.05	\$ 9,568	\$ 7,162	\$ -	\$ 1,236	\$ -	\$ -	\$ 1,171	\$ -	\$ -	\$ -
² Expenditures per kWh saved (\$/kWh):	\$ 0.02	\$ 0.26	\$ -	\$ -	\$ 0.03	\$ -	\$ -	\$ -		\$ -	\$ -
³ Expenditures per kW saved (\$/kW):		\$ 4,107.59	\$ 3,743.13	\$ -	\$ 2,970.00	\$ -	\$ -	\$ -		\$ -	\$ -
Utility discount rate (%):	6.9										

¹ Expenditures are reported on accrual basis.

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

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

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

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

Appendix C - Program and Portfolio Totals

Report Year: 2008

1. Residential Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Customer Survey			\$ -	0.00				
Conservation Website			\$ -	0.00				
Education and Promotion			\$ -	0.00				
Lightbulb Giveaway			\$ -	0.00				
Partnership/Sponsorship			\$ -	0.00				
Spring Every Kilowatt Counts (EKC) Program			\$ -	0.00				
Fall Every Kilowatt Counts (EKC) Program			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
*Totals App. B - Residential	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Residential Indirect Costs not attributable to any specific program	→							
Total Residential TRC Costs		\$ -						
**Totals TRC - Residential	\$ -	\$ -	\$ -	0.00				

2. Commercial Programs

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

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

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

Commercial Indirect Costs not attributable to any specific program



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

3. Institutional Programs

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

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

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

Institutional Indirect Costs not attributable to any specific program



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

4. Industrial Programs

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

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

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

Name of Program J			\$ -	0.00				
*Totals App. B - Industrial	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Industrial Indirect Costs not attributable to any specific program</i>	→							
Total TRC Costs		\$ -						
**Totals TRC - Industrial	\$ -	\$ -	\$ -	0.00				

5. Agricultural Programs

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

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

Name of Program	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
	Name of Program A			\$ -	0.00			
Name of Program C			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program F			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
*Totals App. B - Agricultural	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Agricultural Indirect Costs not attributable to any specific program</i>	→							
Total TRC Costs		\$ -						
**Totals TRC - Agricultural	\$ -	\$ -	\$ -	0.00				

6. LDC System Programs

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

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

Name of Program	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 (\$)
	98-M4 Reconductoring - System Optimization			\$ -	0.00			
System Optimization Studies			\$ -	0.00				


Renewable Energy Study			\$	-	0.00				
Name of Program D			\$	-	0.00				
Name of Program E			\$	-	0.00				
Name of Program F			\$	-	0.00				
Name of Program G			\$	-	0.00				
Name of Program H			\$	-	0.00				
Name of Program I			\$	-	0.00				
Name of Program C			\$	-	0.00				
*Totals App. B - LDC System	\$	-	\$	-	0.00	0	0	0	\$ -

LDC System Indirect Costs not attributable to any specific program

Total TRC Costs		\$	-						
**Totals TRC - LDC System	\$	-	\$	-	\$	-	0.00		

7. Smart Meters Program

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

Report Year Gross C&DM Expenditures (\$) 

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 (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program F			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
*Totals App. B - Other #1	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -

Other #1 Indirect Costs not attributable to any specific program

Total TRC Costs		\$	-					
**Totals TRC - Other #1	\$	-	\$	-	\$	-	0.00	

9. Other #2 Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
Name of Program A			\$ -	0.00				
Name of Program B			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program D			\$ -	0.00				
Name of Program E			\$ -	0.00				
Name of Program C			\$ -	0.00				
Name of Program G			\$ -	0.00				
Name of Program H			\$ -	0.00				
Name of Program I			\$ -	0.00				
Name of Program J			\$ -	0.00				
*Totals App. B - Other #2	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Other #2 Indirect Costs not attributable to any specific program</i>	→							
Total TRC Costs		\$ -						
**Totals TRC - Other #2	\$ -	\$ -	\$ -	0.00				

LDC's CDM PORTFOLIO TOTALS

	TRC Benefits (PV)	TRC Costs (PV)	\$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures (\$)
*TOTALS FOR ALL APPENDIX B	\$ -	\$ -	\$ -	0.00	\$ -	\$ -	\$ -	\$ -
<i>Any other Indirect Costs not attributable to any specific program</i>	→							
TOTAL ALL LDC COSTS		\$ -						
**LDC' PORTFOLIO TRC	\$ -	\$ -	\$ -	0.00				

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

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. Name of the Program: Education and Promotion

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

Using economies of scale some costs are shared with other LDCs and other partners, the increased buying power of the group will leverage more value. Advancing the importance of conservation in all market sectors and in turn facilitating the programs to permit acting on the energy saving opportunities requires significant and consistent marketing.

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		
Measure life (years):	0.00		
Number of participants/units 05&06			
Number of Participants or units delivered life-to-date	0.00		

TRC Results:	Reporting Year	Total 05&06 TRC Results	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ -		\$ -
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ 7,162.11	\$ 7,250.03	\$ 14,412.14
Incremental Measure Costs (Equipment Costs)	\$ -		\$ -
Total TRC costs:	\$ 7,162.11	\$ 7,250.03	\$ 14,412.14
Net TRC (in year CDN \$):	\$ (7,162.11)	\$ -	\$ (14,412.14)
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.00	\$ -	\$ -

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

Conservation Programs:

Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
	Winter	0.00	0.00	
			Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):	lifecycle	0.00	0	0
	in year	0.00		
			Total 05&06 Lifecycle	05&06 Annual
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

D. Program Costs*:		Reporting Year	Total 05&06 Costs	Cumulative Life to Date
Utility direct costs (\$):	Incremental capital:	\$ -		\$ -
Includes Measure's Cost - ensure full cost of measure entered in TRC L15	Incremental O&M:	\$ 7,162.11	\$ 7,250.03	\$ 14,412.14
	Incentive:	\$ -		\$ -
	Total:	\$ 7,162.11	\$ 7,250.03	\$ 14,412.14
Utility indirect costs (\$):	Incremental capital:	\$ -		\$ -
	Incremental O&M:	\$ -		\$ -
	Total:	\$ -	\$ -	\$ -
Total Utility Cost of Program		\$ 7,162.11	\$ 7,250.03	\$ 14,412.14

E. Assumptions & Comments:

2007 programs included the purchase of conservation kits and a teach the teacher program through the Simcoe County District School Board.

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Street Light Conversion

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

Convert municipal streetlight from incandescent to high pressure sodium. Program to save energy and reduce streetlight demand. Replacement of 4 units.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	200 W Incandescent	200 W Incandescent	
Efficient technology:	70 W HPS	100 W HPS	
Number of participants or units delivered:	4.00		
Measure life (years):	20.00		
Number of participants/units 05&06	47	36	
Number of Participants or units delivered life-to-date	51.00	36	

B. TRC Results:	Reporting Year		Total 05&06 TRC Results	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ 1,461.78	\$ 24,289.03	\$ 25,750.81	
² TRC Costs (\$):				
Utility program cost (less incentives):	\$ 332.84	\$ 3,679.49	\$ 4,012.33	
Incremental Measure Costs (Equipment Costs)	-\$ 97.32	-\$ 681.24	-\$ 778.56	
Total TRC costs:	\$ 235.52	\$ 2,998.25	\$ 3,233.77	
Net TRC (in year CDN \$):	\$ 1,226.26	\$ 21,290.78	\$ 22,517.04	
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	6.21	8.10	7.96	

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
	Winter	0.42	0.00	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
	36,480.00	1,824.00	697959.9978	34897.99989
Other resources saved :			Total 05&06 Lifecycle	05&06 Annual
Natural Gas (m3):	0	0	661480	33074
Water (l)	0	0		

D. Program Costs*:		Reporting Year		Total 05&06 Costs	Cumulative Life to Date
Utility direct costs (\$):	Incremental capital:	\$ -	\$ -	\$ -	\$ -
Includes Measure's Cost - ensure full cost of measure entered in TRCIL15	Incremental O&M:	\$ 1,235.52	\$ 18,642.79	\$ 19,878.31	
	Incentive:	\$ -	\$ -	\$ -	
	Total:	\$ 1,235.52	\$ 18,642.79	\$ 19,878.31	
	Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -	\$ -
	Incremental O&M:	\$ -	\$ -	\$ -	\$ -
	Total:	\$ -	\$ -	\$ -	\$ -
Total Utility Cost of Program		\$ 1,235.52	\$ 18,642.79	\$ 19,878.31	

E. **Assumptions & Comments:**

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Customer Survey

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

The intent of this program is to create an active conservation culture. Engaging the community as a whole and fostering the conservation culture through its infancy are the expected yield from the program. Using economies of scale the survey costs are shared with other members of the CHEC group and the increased buying power of the group will leverage more value.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:			
Efficient technology:			
Number of participants or units delivered:			
Measure life (years):	0.00		
Number of participants or units 2005			
Number of Participants or units delivered life-to-date	0.00		

B. TRC Results:	Reporting Year	2005/2006 TRC	Life-to-date TRC
		Results	Results:
¹ TRC Benefits (\$):	\$ -	\$ -	\$ -
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 1,248.86	\$ 1,248.86
Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
Total TRC costs:	\$ -	\$ 1,248.86	\$ 1,248.86
Net TRC (in year CDN \$):	\$ -	-\$ 1,248.86	-\$ 1,248.86
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ -	\$ -

C. Results: (one or more category may apply)			Cumulative Results:	
Conservation Programs:				
Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
	Winter	0.00	0.00	
Energy saved (kWh):	lifecycle	0.00	Cumulative Lifecycle	Cumulative Annual Savings
	in year	0.00	0	0
Other resources saved :			2005 Lifecycle	2005 Annual
Natural Gas (m3):	0	0		
Water (l)	0	0		

D. Program Costs*:	Reporting Year	2005/2006 Costs	Cumulative Life to
			Date
Utility direct costs (\$):	Incremental capital:	\$ -	\$ -
Includes Measure's Cost - ensure full cost of measure entered in TRC/L15	Incremental O&M:	\$ 1,185.26	\$ 1,185.26
	Incentive:	\$ -	\$ -
	Total:	\$ -	\$ 1,185.26
Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -
	Incremental O&M:	\$ -	\$ -
	Total:	\$ -	\$ -
Total Utility Cost of Program		\$ -	\$ 1,185.26

E. **Assumptions & Comments:**

The importance of customer feedback and opinion cannot be underestimated. The CHEC Group seized the opportunity of combining resources to produce one uniform survey which greatly reduced costs and increases the depth and validity of the survey findings. The joint efforts of CHEC will maximize the value of the survey and provide the necessary background and baseline information to enable the LDCs to make better decisions on program design and targeting funds to programs of customer value.

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

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):

The intent of this program is to create an active conservation culture. Using economies of scale the website costs are shared with other members of the CHEC group and the increased buying power of the group will leverage more value to customers and shareholders. Website development on Midland's site was completed in 2005. The CHEC website was completed in 2006

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
<i>Base case technology:</i>			
<i>Efficient technology:</i>			
<i>Number of participants or units delivered:</i>			
<i>Measure life (years):</i>	0.00		
<i>Number of participants or units 2005</i>			
<i>Number of Participants or units delivered life-to-date</i>	0.00		

B. TRC Results:	Reporting Year	2005/2006 TRC	Life-to-date TRC
		Results	Results:
¹ TRC Benefits (\$):	\$ -		\$ -
² TRC Costs (\$):			
<i>Utility program cost (less incentives):</i>	\$ -	\$ 6,486.35	\$ 6,486.35
<i>Incremental Measure Costs (Equipment Costs)</i>	\$ -		\$ -
<i>Total TRC costs:</i>	\$ -	\$ 6,486.35	\$ 6,486.35
<i>Net TRC (in year CDN \$):</i>	\$ -	-\$ 6,486.35	-\$ 6,486.35
<i>Benefit to Cost Ratio (TRC Benefits/TRC Costs):</i>	#DIV/0!	\$ -	\$ -

C. Results: (one or more category may apply)				Cumulative Results:		
Conservation Programs:						
<i>Demand savings (kW):</i>	<i>Summer</i>	0.00	Report Summer Demand (kW)			
	<i>Winter</i>	0.00	0.00			
<i>Energy saved (kWh):</i>	<i>lifecycle</i>	<i>in year</i>	<i>Cumulative Lifecycle</i>	<i>Cumulative Annual Savings</i>		
			0	0		
				<i>2005 Lifecycle</i>	<i>2005 Annual</i>	
<i>Other resources saved :</i>						
<i>Natural Gas (m3):</i>	0	0				
<i>Water (l)</i>	0	0				

D. Program Costs*:	Reporting Year	2005/2006 Costs	Cumulative Life to
		Date	
<i>Utility direct costs (\$):</i>			
<i>Incremental capital:</i>	\$ -		\$ -
<i>Incremental O&M:</i>	\$ -	\$ 5,948.14	\$ 5,948.14
<i>Incentive:</i>	\$ -		\$ -
<i>Total:</i>	\$ -	\$ 5,948.14	\$ 5,948.14
<i>Utility indirect costs (\$):</i>			
<i>Incremental capital:</i>	\$ -		\$ -
<i>Incremental O&M:</i>	\$ -	\$ 150.25	\$ 150.25
<i>Total:</i>	\$ -	\$ 150.25	\$ 150.25
<i>Total Utility Cost of Program</i>	\$ -	\$ 6,098.39	\$ 6,098.39

E. **Assumptions & Comments:**

A conservation website is a significant avenue of opportunity to educate, inform, advertise and reach out to energy consumers. Development and maintenance costs would be shared as would contribution requirements resulting in a more robust and interactive website. The CHEC website would be linked to MPUC's website which would be enhanced by the availability of the combined resources.

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. Name of the Program: Lightbulb Giveaway

Description of the program (including intent, design, delivery, partnerships and evaluation):
 Compact CFLs were delivered to all Residential and GS<50kW customers along with the Ministry of Energy Conserve and Save Money brochure. MPUC also provided CFLs to low income housing customers.

Measure(s):	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6
Base case technology:	60 W Incandescent	60 W Incandescent				
Efficient technology:	15 W CFL	15 W CFL				
Number of participants or units delivered:	0.00	0.00	0.00	0.00	0.00	0.00
Measure life (years):	4.31	2.00	0.00	0.00	0.00	0.00
Number of participants or units 2005	6300	700				
Number of Participants or units delivered life-to-date	6,300.00	700.00	0.00	0.00	0.00	0.00

TRC Results:	Reporting Year		Life-to-date TRC Results:	
	2005 TRC Results	Life-to-date TRC Results:	2005 TRC Results	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ -	\$ 164,313.55	\$ -	\$ 164,313.55
² Measure's Costs (\$):				
Utility program cost (less incentives):	\$ -	\$ 25,414.51	\$ -	\$ 25,414.51
Participant cost:	\$ -	\$ -	\$ -	\$ -
Total TRC costs:	\$ -	\$ 25,414.51	\$ -	\$ 25,414.51
Net TRC (in year CDN \$):	\$ 0.00	\$ 138,899.04	\$ 0.00	\$ 138,899.04
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ 6.47	\$ 6.47	\$ 6.47

Results: (one or more category may apply)			Cumulative Results:	
Conservation Programs:			Report Summer Demand (kW)	
Demand savings (kW):	Summer	0.00	0.00	
	Winter	0.00	0.00	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
	0.00	0.00	2778300	705348
			2005 Lifecycle	2005 Annual
			2,778,300.00	705,348.00
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

Program Costs ¹ :		2005 Costs	Cumulative Life to Date
Utility direct costs (\$):	Incremental capital:	\$ -	\$ -
Error Choose Measures Cost Paid by on TRC3	Incremental O&M:	\$ 24,445.07	\$ 24,445.07
	Incentive:	\$ -	\$ -
	Total:	\$ 24,445.07	\$ 24,445.07
Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -
	Incremental O&M:	\$ -	\$ -
	Total:	\$ -	\$ -
Total Utility Cost of Program		\$ 24,445.07	\$ 24,445.07

E. Comments:

Adjustment for transfer of 2005 lights

¹ Incremental costs are the difference in costs between a measure and the base case technology. The base case technology is the most efficient technology available at the time of the program. Incremental costs are the present value of the incremental net annual savings over the program life, discounted at the program discount rate, multiplied by the number of units times the net present value per unit benefit specified in the TRC Guide.

² Incremental costs are the difference in costs between a measure and the base case technology. The base case technology is the most efficient technology available at the time of the program. Incremental costs are the present value of the incremental net annual savings over the program life, discounted at the program discount rate, multiplied by the number of units times the net present value per unit benefit specified in the TRC Guide.

³ Component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs"

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Partnership/Sponsorship

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

Special programs will be developed for low-income families and other organizations through strategic partnerships. Working with these groups programs will be developed to provide resources and services to the groups. A partnership with the Wye Marsh Wildlife Centre for the construction of a wind turbine to be used for educational purposes with local schools and the general public will add to the conservation culture

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		
Measure life (years):	0.00		
Number of participants or units 2005			
Number of Participants or units delivered life-to-date	0.00		

B. TRC Results:	Reporting Year	2005/2006 TRC	Life-to-date TRC
		Results	Results:
¹ TRC Benefits (\$):	\$ -	\$ -	\$ -
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 26,718.64	\$ 26,718.64
Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
Total TRC costs:	\$ -	\$ 26,718.64	\$ 26,718.64
Net TRC (in year CDN \$):	\$ -	-\$ 26,718.64	-\$ 26,718.64
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ -	\$ -

C. Results: (one or more category may apply)			Cumulative Results:	
Conservation Programs:				
Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
	Winter	0.00	0.00	
			Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):	lifecycle	0.00	0	0
	in year	0.00	2005 Lifecycle	2005 Annual
Other resources saved :				
Natural Gas (m3):		0		
Water (l)		0		

D. Program Costs*:	Reporting Year	2005/2006 Costs	Cumulative Life to
		Date	
Utility direct costs (\$):	Incremental capital:	\$ -	\$ -
Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	Incremental O&M:	\$ 27,006.95	\$ 27,006.95
	Incentive:	\$ -	\$ -
	Total:	\$ 27,006.95	\$ 27,006.95
Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -
	Incremental O&M:	\$ 40.64	\$ 40.64
	Total:	\$ 40.64	\$ 40.64
Total Utility Cost of Program		\$ 27,047.59	\$ 27,047.59

E. **Assumptions & Comments:**

Low Income Housing received CFLs which were included in the report in 2005 under the Lightbulb giveaway. The total incremental cost from this partnership was \$1660.60.

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** 98-M4 Reconductoring - System Optimization

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

Reconstruction of 23 pole span of the 98-M4 main subtransmission feeder. Total project cost of \$335,000. Incremental cost of installing the up-graded conductor was \$158,000 as per the contractor's estimate. Loss savings as calculated by the DESS computer simulation was 47 kW.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Leave #2 ACSR		
Efficient technology:	Reconductor with 333.6 MCM		
Number of participants or units delivered:	1.00		
Measure life (years):	20.00		
Number of participants or units 2005			
Number of Participants or units delivered life-to-date	1.00		

B. TRC Results:	Reporting Year	2005/2006 TRC	Life-to-date TRC
		Results	Results:
¹ TRC Benefits (\$):	\$ -	\$ 234,933.29	\$ 234,933.29
² TRC Costs (\$):			
Utility program cost (less incentives):		\$ 158,000.00	\$ 158,000.00
Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
Total TRC costs:	\$ -	\$ 158,000.00	\$ 158,000.00
Net TRC (in year CDN \$):	\$ -	\$ 76,933.29	\$ 76,933.29
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ 1.49	\$ 1.49

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

Conservation Programs:

Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
	Winter	0.00	47.00	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
			4568051.8	228402.59
	0.00	0.00	05/06 Lifecycle	05/06 Annual
			4568051.8	228402.59
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

D. Program Costs*:	Reporting Year	2005/2006 Costs	Cumulative Life to
		Date	
Utility direct costs (\$):			
Incremental capital:	\$ -	\$ -	\$ -
Includes Measure's Cost - ensure full cost of measure entered in TRCIL15			
Incremental O&M:	\$ 1,170.60	\$ 58,612.04	\$ 59,782.64
Incentive:	\$ -	\$ -	\$ -
Total:	\$ 1,170.60	\$ 58,612.04	\$ 59,782.64
Utility indirect costs (\$):			
Incremental capital:	\$ -	\$ -	\$ -
Incremental O&M:	\$ -	\$ -	\$ -
Total:	\$ -	\$ -	\$ -
Total Utility Cost of Program	\$ 1,170.60	\$ 58,612.04	\$ 59,782.64

E. **Assumptions & Comments:**

Incremental cost of measure was \$158,000. Only \$58,612.04 charged against CDM third tranche programs

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

*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:** System Optimization Studies

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

Intent is to target reductions in distribution losses. An infrared study, a System Optimization Study and Phase Balancing a Voltage Conversion Study, a Substation Study and a Load Data Study will be conducted to identify projects that will improve/reduce distribution system losses and improve system efficiency.

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		
Measure life (years):	0.00		
Number of participants or units 2005			
Number of Participants or units delivered life-to-date	0.00		

B. TRC Results:	Reporting Year	2005/2006 TRC	Life-to-date TRC
		Results	Results:
¹ TRC Benefits (\$):	\$ -	\$ -	\$ -
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 69,138.90	\$ 69,138.90
Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
Total TRC costs:	\$ -	\$ 69,138.90	\$ 69,138.90
Net TRC (in year CDN \$):	\$ -	-\$ 69,138.90	-\$ 69,138.90
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ -	\$ -

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

Conservation Programs:

Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
	Winter	0.00	0.00	
Energy saved (kWh):	lifecycle	0.00	Cumulative Lifecycle	Cumulative Annual Savings
	in year	0.00	0	0
Other resources saved :			2005 Lifecycle	2005 Annual
Natural Gas (m3):	0	0		
Water (l)	0	0		

D. Program Costs:	Reporting Year	2005/2006 Costs	Cumulative Life to
		Date	
Utility direct costs (\$):	Incremental capital:	\$ -	\$ 52,677.48
Includes Measure's Cost - ensure full cost of measure entered in TRC/L15	Incremental O&M:	\$ -	\$ -
	Incentive:	\$ -	\$ -
	Total:	\$ -	\$ 52,677.48
Utility indirect costs (\$):	Incremental capital:	\$ -	\$ 1,500.83
	Incremental O&M:	\$ -	\$ -
Total Utility Cost of Program	Total:	\$ -	\$ 1,500.83
		\$ -	\$ 54,178.31

E. **Assumptions & Comments:**

¹ Benefits derived are estimated. It costs have been measured using the technology that is being deployed. Benefits reflect the present value of the measure for the number of units deployed.
² units times the net present value per unit.
³ An "incremental" measure that is not directly deployed but that is assumed to be deployed (e.g., a program that is assumed to be deployed) is not included in the TRC costs. However, payments made

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Renewable Energy Study

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

Investigations will be conducted to determine the feasibility of one or more local renewable energy projects which will be canvassed for a first pass of possible implementation. Partnerships will also be formed with the intent of identifying opportunities to build awareness in creating a conservation culture.

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		
Measure life (years):	0.00		
Number of participants or units 2005			
Number of Participants or units delivered life-to-date	0.00		

B. TRC Results:	Reporting Year		2005 TRC Results	Life-to-date TRC Results:
	¹ TRC Benefits (\$):	\$ -		
² TRC Costs (\$):				
Utility program cost (less incentives):	\$ -		\$ 3,384.51	\$ 3,384.51
Incremental Measure Costs (Equipment Costs)	\$ -			\$ -
Total TRC costs:	\$ -		\$ 3,384.51	\$ 3,384.51
Net TRC (in year CDN \$):	\$ -		-\$ 3,384.51	-\$ 3,384.51
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!		\$ -	\$ -

C. Results: (one or more category may apply)			Cumulative Results:	
Conservation Programs:				
Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
	Winter	0.00	0.00	
Energy saved (kWh):	lifecycle	0.00	Cumulative Lifecycle	Cumulative Annual Savings
	in year	0.00	0	0
			2005 Lifecycle	2005 Annual
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

D. Program Costs*:	Reporting Year		2005 Costs	Cumulative Life to Date
	Utility direct costs (\$):	Incremental capital:	\$ -	
	Incremental O&M:	\$ -		\$ -
	Incentive:	\$ -		\$ -
	Total:	\$ -	\$ -	\$ -
Utility indirect costs (\$):	Incremental capital:	\$ -		\$ -
	Incremental O&M:	\$ -	\$ 2,090.54	\$ 2,090.54
	Total:	\$ -	\$ 2,090.54	\$ 2,090.54
Total Utility Cost of Program		\$ -	2,090.54	2,090.54

E. **Assumptions & Comments:**

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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Smart Metering

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

Pilot studies will be conducted to investigate applicability and optimum introduction of the smart metering technologies. By partnering with other LDCs in the OUSM (UtilAssist) Group, coordination of multiple technologies and test results will achieve economies of scale as we move to the implementation stage.

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		
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	2005/2006 TRC Results	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ -	\$ -	\$ -
² TRC Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ 31,595.23	\$ 31,595.23
Incremental Measure Costs (Equipment Costs)	\$ -	\$ -	\$ -
Total TRC costs:	\$ -	\$ 31,595.23	\$ 31,595.23
Net TRC (in year CDN \$):	\$ -	-\$ 31,595.23	-\$ 31,595.23
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ -	\$ -

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	Summer	0.00	Report Summer Demand (kW)	
	Winter	0.00	0.00	
			Cumulative Lifecycle	Cumulative Annual Savings
Energy saved (kWh):	lifecycle	0.00	0	0
	in year	0.00	2005 Lifecycle	2005 Annual
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

Program Costs*:		Reporting Year	2005/2006 Costs	Cumulative Life to Date
Utility direct costs (\$):	Incremental capital:	\$ -	\$ 23,751.65	\$ 23,751.65
	Incremental O&M:	\$ -	\$ -	\$ -
	Incentive:	\$ -	\$ -	\$ -
	Total:	\$ -	\$ 23,751.65	\$ 23,751.65
Utility indirect costs (\$):	Incremental capital:	\$ -	\$ 1,563.18	\$ 1,563.18
	Incremental O&M:	\$ -	\$ -	\$ -
	Total:	\$ -	\$ 1,563.18	\$ 1,563.18
Total Utility Cost of Program		\$ -	\$ 25,314.83	\$ 25,314.83

E. **Assumptions & Comments:**



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

Appendix B - Discussion of the Program

(complete this section for each program)

A. **Name of the Program:** Spring Every Kilowatt Counts (EKC) Program

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

In partnership with the OPA provided customer incentives for energy efficient technologies. Involved both direct mail and in-store promotion along with local advertising and support.

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6
Base case technology:	0	0.00	0.00	0.00	0.00	0.00
Efficient technology:	CFLs	Ceiling Fans	Timers	Programm. Thermostats	0.00	0.00
Number of participants or units delivered:		0.00	0.00	0.00	0.00	0.00
Measure life (years):	4.00	20.00	20.00	18.00	0.00	0.00
Number of participants or units 2006	1630	34	45	33		
Number of Participants or units delivered life-to-date	1,630.00	34.00	45.00	33.00	0.00	0.00

B. TRC Results:	Reporting Year	2005/2006 TRC Results:	
		2005/2006 TRC Results	Life-to-date TRC Results:
¹ TRC Benefits (\$):	\$ -	\$ 56,162.00	\$ 56,162.00
² Measure's Costs (\$):			
Utility program cost (less incentives):	\$ -	\$ -	\$ -
Participant cost:	\$ -	\$ 6,869.25	\$ 6,869.25
Total TRC costs:	\$ -	\$ 6,869.25	\$ 6,869.25
Net TRC (in year CDN \$):	\$0.00	\$ 49,292.75	\$ 49,292.75
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ 8.18	\$ 8.18

C. Results: (one or more category may apply)			Cumulative Results:	
Conservation Programs:				
Demand savings (kW):	Summer	1.91	Report Summer Demand (kW)	
	Winter	0.00	1.91	
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
	0.00	0.00	961039.98	170812.84
			2006 Lifecycle	2006 Annual
			961039.98	170812.84
Other resources saved:				
Natural Gas (m3):	0	0		
Water (l):	0	0		

D. Program Costs:		2005/2006 Costs	Cumulative Life to Date
Utility direct costs (\$):	Incremental capital:	\$ -	\$ -
Error Choose Measures Cost Paid By on TRC1	Incremental O&M:	\$ -	\$ -
	Incentive:	\$ -	\$ -
	Total:	\$ -	\$ -
Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -
	Incremental O&M:	\$ -	\$ -
	Total:	\$ -	\$ -
Total Utility Cost of Program		\$ -	\$ -

E. **Comments:**

Direct Mail coupons for all products were 155; in-store coupons for all programs total 1587

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

Appendix B - Discussion of the Program

(complete this section for each program)

n Name of the Program: Fall Every Kilowatt Counts (EKC) Program

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

In partnership with the OPA provided customer incentives for energy efficient technologies. Involved both direct mail and in-store promotion along with local advertising and support.

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6
Base case technology:	0	0.00	0.00	0.00	0.00	0.00
Efficient technology:	CFLs	LED Xmas Lights	Dimmers	Progr. Thermostats	Motion Censor	0.00
Number of participants or units delivered:	0.00	0.00	0.00	0.00	0.00	0.00
Measure life (years):	4.00	30.00	10.00	18.00	20.00	0.00
Number of participants or units 2006	4899	2050	24	75	12	
Number of Participants or units delivered life-to-date	4,899.00	2,050.00	24.00	75.00	12.00	0.00

B. TRC Results:	Reporting Year		2006 TRC Results	Life-to-date TRC Results:
	¹ TRC Benefits (\$):	\$ -	\$ 218,642.00	\$ 218,642.00
² Measure's Costs (\$):				
Utility program cost (less incentives):	\$ -	\$ 1.00	\$ 1.00	
Participant cost:	\$ -	\$ -	\$ -	
Total TRC costs:	\$ -	\$ 1.00	\$ 1.00	
Net TRC (in year CDN \$):	\$0.00	\$ 218,641.00	\$ 218,641.00	
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	\$ 218,642.00	\$ 218,642.00	

C. Results: (one or more category may apply)			Cumulative Results:	
Conservation Programs:			Report Summer Demand (kW)	
Demand savings (kW):	Summer	0.00	0.00	
	Winter	0.00		
Energy saved (kWh):	lifecycle	in year	Cumulative Lifecycle	Cumulative Annual Savings
	0.00	0.00	4295050	559907
			2005 Lifecycle	2005 Annual
			4295050	559907
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	0	0		

D. Program Costs:		2005 Costs	Cumulative Life to Date
Utility direct costs (\$):	Incremental capital:	\$ -	\$ -
Error Choose Measures Cost Paid By on TRC1	Incremental O&M:	\$ -	\$ -
	Incentive:	\$ -	\$ -
	Total:	\$ -	\$ -
Utility indirect costs (\$):	Incremental capital:	\$ -	\$ -
	Incremental O&M:	\$ -	\$ -
	Total:	\$ -	\$ -
Total Utility Cost of Program		\$ -	\$ -

E. Comments:

Total direct mail coupons were 245; in-store coupons total 3681

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

² For technologies which have not been deployed but for which the LDC has incurred costs, report only the TRC costs on a present value basis. Incentives (e.g. rebates) from the LDC to a customer are not a component of the TRC costs. However, payments made to a third party service provider to run an incentives program are program costs, and are to be included as TRC costs under the "Utility Program Costs" line.