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

Conservation and Demand Management
2007 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 2007. 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 one LDC had exhausted their third tranche funding and continued to support the conservation effort by participating in the OPA programs. In 2007 five LDCs completed their third tranche expenditures with three others very close to completing their plans. Eight CHEC members requested extensions on their programs to facilitate completion of the plan.

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.

Within the 16 utilities there have been a total of 84 initiatives worked on in 2007. As in previous years the initiatives represent projects specific to individual LDCs and projects that are cooperative efforts between LDCs or agencies (local and OPA programs). While there were 84 initiatives included in the reporting many of the reports contained a number of separate activities joined in one Appendix B.

On the population of 84 initiatives, 37% had a positive TRC. Many 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 2007 the LDCs received additional funding through the OPA model. These additional funds combined with the third tranche funds maintained a high level of CDM activity across the province. In 2007 it was apparent that through the cooperative programs with the LDCs, the OPA gained recognition in the CDM market place. The availability of third tranche funds beyond September 2007

for some LDCs, allows the continuation of locally focused programs over and above the provincial initiatives.

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 2007 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 2007 their numbers are restated to maintain the completeness of the report.

3.0 Evaluation of the CDM Plan:

Total Portfolio: The 16 CHEC members collectively undertook a total of 84 initiatives. These programs fell within three categories:

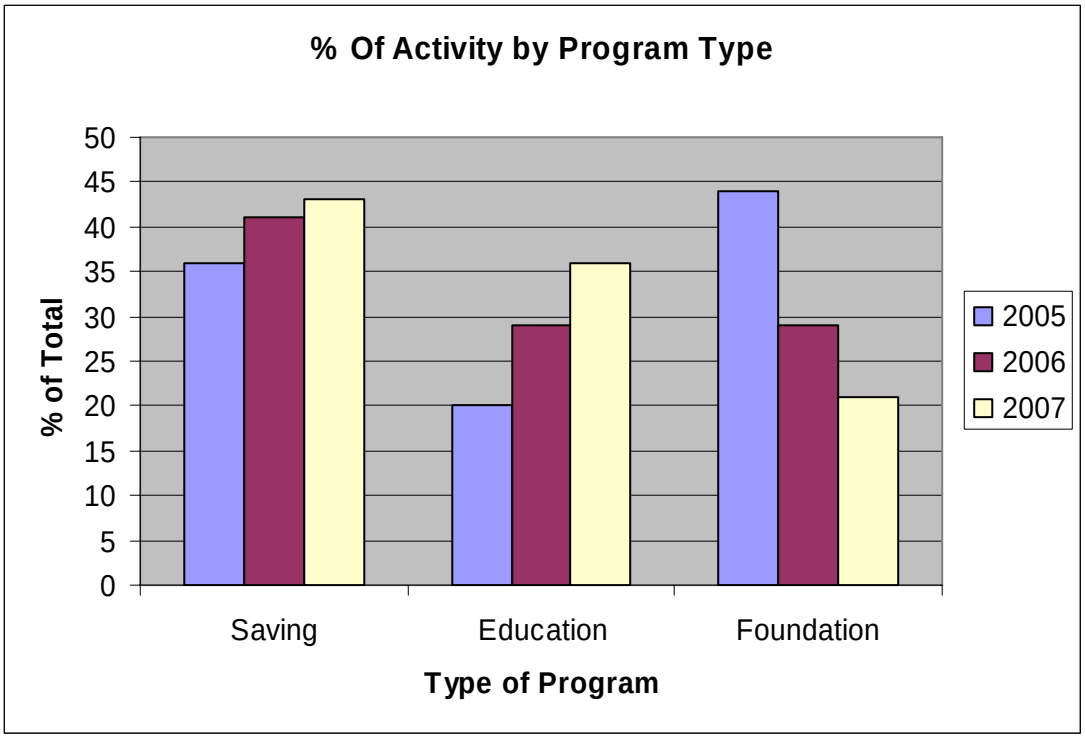
- Savings: Delivery of energy saving products or processes: coupons, rebates, free products, etc.
- Education: Providing general energy management information through such activities as: website development, workshops, brochures, school programs, etc,
- Foundation: Preparatory work for future programs 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 2007 initiatives represent a total energy savings (lifecycle) of 35,848,000 kWh at a combined "Utility Cost" of $1,176,700 or approximately 3.2 c/kWh. This cost of energy saved was achieved while continuing the education and foundation building programs. To put the energy savings in perspective 35.8 Million kWh represents the annual energy required by 2,983 homes (at 1000 kWh/month).

Figure 1 illustrates the change in program makeup from 2005 to 2007. Over the three year period there has been a steady increase in the "saving" and "education" programs. This was offset by a steady decrease in the "foundation" programs. Many of the education programs also incorporated measures to assist participants in their conservation efforts.

The "Foundation" programs in the third year, in many instances, were completion of projects started in the first and second years. In other projects the initiative provides the consumer with specific information that will assist them to implement energy conservation strategies and more fully participate in future programs offered through the LDC/OPA delivery channel.

Figure 1



Savings Programs: The 2007 Annual Report does not contain any of the OPA program results run in 2007. The cumulative number however does contain the impact of OPA coupon programs in 2006. Hence for 2007 the programs which resulted in a net 2007 TRC were all locally driven.

On the local level savings programs continued to focus on local partnerships and delivery channels. This year a number of projects partnered with other community agencies such as social housing to contact customer groups that may not have the opportunity to be fully engaged by the conservation movement.

The use of product incentives and give-a-ways continued to play a significant role in the local programming. Conservation kits, CFL bulbs and other conservation devices were distributed to customers through: school programs, fund raisers, community events and as prizes. A number of utilities also partnered with the Porchlight Project to increase the number of CFL bulbs delivered in their service territory.

System optimization projects continue to be included in the portfolio. The savings by these initiatives can be substantial when compared to the incremental cost. Further initiatives in this area can continue to provide for reduced losses on the systems and the associated demand for energy.

Education Programs: The CHEC LDC's continued their support of the education portfolio and the School Boards in their service territories. Through presentations at schools, support of program development and partnering with delivery agents such as environmental groups, LDCs supported the grade 5 and 9 curriculum. The LDCs involvement helped support the teachers in their efforts and highlighted that conservation is an issue beyond the "academic" environment.

Members continued providing training opportunities to the commercial and industrial sector. A number of programs focused on the small commercial customer and provided conservation measures for installation. In this sector this appeared to be one of the best approaches. Industrial customers continue to be a challenge as it appeared to be difficult to get them to free up time and dollars for conservation. The workshops and materials provided by member LDCs will help to better prepare the customers for such programs as ERIP. However continued focus on this customer group, making efforts to understand and address their specific barriers to conservation will be required.

The education programs, while not focused on kWh savings set the stage for improved performance of programs more focused on savings. The education initiatives increase the level of conservation awareness and help to foster the conservation culture within the province.

Foundation Program: While the number of "foundation" programs were on a decline, as would be expected, they remain significant. In 2007 the "foundation" programs contained a number of audit initiatives to provide specific information to the customer for savings. While in many instances implementation has not occurred it is anticipated that a number of these will encourage participation in programs such as ERIP.

In 2007 the longer term "foundation" programs such as: system optimization studies, smart meter preparation, and demonstration projects were completed, consistent with the funding.

Net TRC Results: The net TRC result of the combined CHEC CDM activity for 2007 is $882,739 down from $3,800,000 in 2006 however up from $500,000 in 2005. The TRC for the second year of the program was skewed by the EKC programs that were included in the 2006 Annual Report. The continued strong performance in the third year resulted from higher levels of activity of utilities with funds remaining and the inclusion of conservation measures in education programs. Education programs are an excellent way to support the theory with practical applications and implementation.

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:

Partnerships and Sharing: In the 2006 report it was noted that the ability to partner was increased in year two. In year three the trend continued with a number of not-for-profit agencies entering into partnerships with CHEC members. These partnerships were community centered and in many cases very cost effective.

The availability of funds at the local level to support these initiatives increased the penetration of projects in the service territories. Continuation of funds at the local level (perhaps through custom programs) to ensure the continuation of the current momentum, should prove beneficial to the conservation movement and the conservation culture that has developed.

CHEC members continue to share information between members and also with other LDCs. Combined efforts for the purchase of product and resources continue to support the conservation efforts of CHEC.

TRC: TRC continues to be one of the primary measures of third tranche programs and the OEB Guideline has been key in the general understanding of total resource costing as applied to the electrical system. This understanding will continue as the OPA applies TRC to future programs. It is interesting to note that the values of measures under the OPA evaluation method are different from those in the OEB tool.

Funding: A number of CHEC members have extended the time line for third tranche funding. The extensions in many instances have been focused around industrial commercial funds that have not been fully utilized. The longer lead time for industry to respond and the introduction of OPA programs has impacted

on the expenditure of these funds. However the availability of the funds for a slightly longer period will provide opportunities for early 2008.

Third Tranche and OPA Programs: Third tranche CDM Programs were impacted by the OPA Programs introduced in 2006 and 2007. Programs such as the coupon program, ERIP and Peak Saver in many instances were very similar or extensions of programs developed with third tranche funds. As such LDCs stepped back and reevaluated their plans to adjust for the provincial initiative. By adjusting their programs LDCs ensured they were not duplicating efforts and were in fact investing third tranche funds in areas that were not being addressed by existing programs.

Customer Readiness: The residential customers have been responsive to programs over the three year period. Small surveys by members and anecdotal comments appear to indicate an increased awareness and readiness for electrical conservation – indicators of the development of the "conservation culture".

As noted earlier the industrial and commercial customers continue to present a challenge. This sector appears to be aware of potential opportunities however lack the resources for evaluation and implementation of projects that do not appear focused to their core business. With the preparatory work over the last three years it is hoped that this customer sector is better prepared to move into implementation as the CDM industry continues with offerings that better meet their needs.

Utility Resources: Utility resources were challenged to meet the combined requirements of third tranche and OPA programs. In many instances the LDCs contracted internal resources or hired external consultants to assist with program management and delivery. It was found however that in many instances regular staff continues to play a critical role in setting the direction, reporting and monitoring the programs. The ability to manage these requirements as the industry moves forward continues to be an issue LDCs will need to address.

6.0 Conclusion:

The third year of CDM continued to deliver information, kWh savings and the support to the conservation culture.

While third tranche funding is coming to an end the conservation and demand management momentum started by the LDC programs will continue through the current OPA/LDC funding mechanism. The third tranche funding allowed for local initiatives that not only provided kWh savings but provided education opportunities aimed at preparing customers for future savings.

7.0 Appendices:

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March 2008

Woodstock Hydro Services Inc.
RP-2004-0203\(ED-2003-0011)
Conservation and Demand Management Annual Report

Content:

1. Introduction:

With continued emphasis on education and awareness, we completed the last of our third tranche investment in tandem with the 2007 OPA group of programs. We are confident that a seamless and effective transition was accomplished during the third and fourth quarter of 2007.

Many of the programs developed by Woodstock Hydro during the three running years provided an excellent introduction to both LDC and other OPA programs, such as the Standard Offer Program.

One of the lasting legacies of our third tranche investment within our community will certainly be our integration into community groups and professional organizations, such as the Chamber of Commerce. During the years from 2005 through 2007, we established a relationship with this group that has evolved to allow a very effective means of connecting with Woodstock's business community.

We believe relationships developed through the leveraging of CDM funds will continue to evolve as we strive to educate consumers about Smart metering, OPA programs and Municipal community leadership initiatives.

This year, Woodstock Hydro requested and received a re-allocation of funding from the OEB to better describe the program activity as developed throughout 2006. This includes the moving of dollars from the Smart Metering/Pay-As-You-Go program, to that of a Renewable Energy demo, and increasing of funding to other existing programs.

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2. Evaluation of our CDM Plan

More people and businesses participate in and understand the benefits of conservation now than three years ago. This is evident in newspaper articles, letters to the local editor, television broadcast coverage and other media related venues.

In addition, we continue to see an increase in customer call volume related to energy reduction questions and concerns over electricity consumption levels.

This trend best speaks to the positive trend in energy awareness and proactive results from customers who are making concerted efforts to reduce their energy footprint.

We believe this trend confirms the fact our third tranche investments have been sound, effective and contribute to an ongoing consumer awareness of energy conservation and demand reduction management techniques.

3. Discussion of our Programs

Conservation Website

The Woodstock Hydro conservation pages continued to promote the many programs (both internal and external) available to customers throughout 2007.

We continue to post information to this site, and used it extensively to transition from WHSI programs to those of the OPA throughout 2007.

Customer Survey

Customer survey activity this year continued through our participation in the Woodstock Sidewalk Days event, with over 400 energy surveys being completed during the three day gala.

Education and Promotion

Kill-a-watt Monitors

We continue to support the ‘library lending’ approach of this offering by providing plug-in energy monitors to customers at no charge. They continue to serve their purpose by allowing customers the ability to conduct their own mini-energy audit.

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GS Customer Load Shape Awareness:

Complementing our activity within the Interval/Smart metering category, we provided education and awareness training to customers, introducing them to the concept of load shape, peak demand and other billing related information.

This initiative will assist customers as they transition to smart and interval metering techniques over the next several years.

Partnership and Sponsorship

The Canadian Energy Expo

The Canadian Energy Expo (CEE) took place on May 25, 26, 27 – 2007, and featured an array of alternative, renewable and sustainable energy sources available to todays energy demanding consumer. Woodstock Hydro established a booth at the show, provided speaking resources and promoted both Woodstock Hydro and OPA name branding and conservation awareness during this weekend event.

The program proved to be a great success, drawing over a thousand people from across the Province. We intend to participate once again this year, and will continue to promote the OPA programs, both LDC and other.

Energy Innovation Award:

For the third year running, Woodstock Hydro supported an award through the local Chamber of Commerce, providing recognition of achievement by a local business through energy reducing strategies. This years event promoted the actual supporters of the event, bring accolades to Woodstock Hydro as a contributor to the community through this award sponsorship.

SLOME:

In 2007, Woodstock Hydro and ‘Reduce the Juice’ (with the support of Orangeville Hydro) teamed up to provide a renewable energy demonstration viewed by over 3000 school children.

Serving London, Oxford, Middlesex and Elgin school board areas, the renewable energy trailer developed by Orangeville Hydro was displayed, along with programs developed by Woodstock Hydro and the OPA.

A demonstration of energy efficient lighting was also provided during the event.

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Chamber of Commerce – Business After Five:

Woodstock Hydro and AB Products (a local greenhouse business and energy innovator) teamed up to host a 'Business After Five' event. This event is a regular feature with the Chamber, providing a light dinner, speakers and exposure to the hosting businesses. Energy saving gift packages were assembled and handed out at the event, and Woodstock Hydro spoke to promote energy saving strategies available to business owners.

Approximately 80 people attended the event.

LED Light Exchange/Winterlights:

Once again, Woodstock Hydro promoted the exchange of old incandescent lights to those of LED technology, and provided support toward the recognition of energy efficiency at Christmas.

This has become an expected event hosted by Woodstock Hydro, and will likely be continued through the ongoing OPA program support here in Woodstock.

System Optimization:

During 2007, we implemented the majority of recommendations provided through a 2006 system optimization report. The main component of our activity included the changing of normal open points and the addition of one previously non-existent open point. A reduction of approximately 80 KVA was achieved through this work, along with additional energy loss reduction.

Power factor improvements to our system were also recommended, however we chose to support this part of the recommendation through our Power Factor/Projects program by providing an incentive to power performing customers for the installation of capacitance on the customer side of the meter.

Interval/PAYG Meters:

Three customer information sessions were organized at the Quality Inn in Woodstock, providing hands-on training of Interval/Internet meter instruction.

Staff from Woodstock Hydro, the IESO and Utilismart Corp provided training to approximately 100 attendees over the three week initiative.

We expect a great deal of immeasurable energy reduction was achieved through this education and awareness campaign.

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Renewable Energy Demonstration:

Funding was formalized for this valuable program in 2007. As discussed in our 2006 report, Woodstock Hydro worked with the City of Woodstock and ARISE technologies to install an interactive kiosk and 1 KW PV array at the Southwood community complex.

The array and Kiosk were in place at Southwood arena for over a year, and enjoyed the attention of over 500,000 attendees during that time.

To further promote the concept of renewable energy and energy conservation, we teamed up with the local Hospital foundation by offering the installation to a lucky winner, and turning the results of the fundraiser over to the Foundation.

This approach generated a great deal of attention and interest from both the public and media. A winner was announced in June 2007, with the installation being subsequently completed in late summer.

We hope to continue with an educational campaign by including the winners of the technology in a media follow-up this summer.

Power Factor Audits/Project:

Energy Savings Finance:

With an LDC investment of just over $4000.00, and a customer investment of $80,000 (provided through CIT Finance leasing arrangements), one Woodstock customer found savings of over $40,000/year through reduced peak demand and energy reductions. This same customer was presented with an award by OPA following a plant tour by Peter Love.

We believe the Energy Saving Finance concept, combined with ERIP, could provide incredible results, and should be considered by OPA and other LDC's going forward.

Power Factor Correction:

In support of our System Optimization program, three customers reduced peak demand by a total of 900 KVA through this incentive program. Although difficult to quantify, customer losses and system peak demand reductions provide benefit, both financially and from a technical perspective.

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4. LESSONS LEARNED

Time and tenacity continue to be the best friends of culture change, and we believe this applies also to the theme of energy conservation.

We worked hard and hopefully it will be believed, wisely, on behalf of our customers to promote energy conservation during the past three years.

In Canada, we are inherent consumers and wasters of energy – changing this fact will take time and patience, and will not be achieved in a short time (so long as the change remains elective).

It was the Provinces wish that no gap in message between LDC third tranche programs take place, and we believe we achieved this goal during our transition to 2007 OPA programs.

5. CONCLUSIONS:

Implementing effective and lasting change is hard work, and we are committed to the longer term goal of seeing our residents and business owners thrive and succeed by using their energy resource wisely and to the best result.

Sincerely,

Jay Heaman
Manager, Engineering & Conservation
Woodstock Hydro Services Inc.

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 ($):	*886,035.35*	**$ 141,285**	**$ (74,499)**	**$ -**	**$ 6,512**	**$ (28,188)**	**$ -**	**$ 237,460**		**$ -**	**$ -**
Benefit to cost ratio:	*2.36*	2.11	0.02	0.00	73.36	0.00	0.00	11.33		0.00	0.00
Number of participants or units delivered:	*29,926*	*12,227*	11,920	0	2	304	0	1		0	0
Lifecycle (kWh) Savings:	*36,692,658.34*	6,103,818	20,520	0	170,298	0	0	5,913,000		0	0
Report Year Total kWh saved (kWh):	*3,138,979.40*	305,192	1,026	1	8,515	0	0	295,650		0	0
Total peak demand saved (kW):		49	9	0	6	0	0	34		0	0
Total kWh saved as a percentage of total kWh delivered (%):	*0.26%*	0.07%	0.00%	0.00%	0%	0%		0%			
Peak kW saved as a percentage of LDC peak kW load (%):		0.07%	0.01%	0%	0.01%	0.00%		0.05%			
[1] *Report Year Gross C&DM expenditures ($):*	*421,895.36*	$ 133,690	$ 74,223	$ -	$ 5,000	$ 28,188	$ -	$ 22,995	$ 3,283	$ -	$ -
[2] *Expenditures per KWh saved ($/kWh):*	$ 0.01	$ 0.02	$ 3.62	$ -	$ 0.03	$ -	$ -	$ 0.00		$ -	$ -
[3] *Expenditures per KW saved ($/kW):*		$ 2,736.80	$ 8,091.17	$ -	$ 843.81	$ -	$ -	$ 681.34		$ -	$ -

Utility discount rate (%):	8.57

[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: **2007**

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 ($)
CONSERVATION WEBSITE	$ -	$ 1,485	-$ 1,485	0.00	0	0	0	$ 1,485
CUSTOMER SURVEY	$ -	$ -	$ -	0.00	0	0	6	$ -
WHSI Every Kilowatt Counts (EKC) F	$ -	$ -	$ -	0.00	0	0	0	$ -
PARTNERSHIP/SPONSORSHIP	$ -	$ 15,937	-$ 15,937	0.00	0	0	2	$ 15,937
EDUCATION & PROMOTION	$ -	$ 10,792	-$ 10,792	0.00	0	0	0	$ 10,792
2005 Lighten Your Electricity Bill Prog	$ -	$ -	$ -	0.00	0	0	0	$ -
Photo Array 1kW Installation	$ 1,524	$ 47,809	-$ 46,285	0.03	1,026	20,520	1	$ 46,009
Name of Program H			$ -	0.00				
Name of Program I			$ -	0.00				
Name of Program J			$ -	0.00				
***Totals App. B - Residential**	$ 1,524	$ 76,023	-$ 74,499	0.02	1,026	20,520	9	$ 74,223
Residential Indirect Costs not attributable to any specific program →		$ -		*Total Residential kWh Delivered in 2007*		110,824,151.00		
Total Residential TRC Costs		$ 76,023			System Peak in 2007		75,000	
****Totals TRC - Residential**	**$ 1,524**	**$ 76,023**	**-$ 74,499**	**0.02**				

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 ($)
WHSI PF Projects COOL SHOPS	$ -	$ -	$ -	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	1			
***Totals App. B -**	$ -	$ -	$ -	0.00	1	0	0	$ -
Commercial Indirect Costs not attributable to any specific program →				*Total Commercial kWh Delivered in 2007*		344,184,337.00		
Total TRC Costs		$ -			System Peak in 2007		75,000	
****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 ($)
SIGNAL/STREET LIGHTS	$ -	$ -	$ -	0.00	0	0	5	$ -
PV LED Signs	$ 6,602	$ 90	$ 6,512	73.36	8,515	170,298	1	$ 5,000
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 -**	$ 6,602	$ 90	$ 6,512	73.36	8,515	170,298	6	$ 5,000
Institutional Indirect Costs not attributable to any specific program →				*Total Institutional kWh Delivered in 2007*				
Total TRC Costs		$ 90			System Peak in 2007		75,000	
****Totals TRC - Institutional**	**$ 6,602**	**$ 90**	**$ 6,512**	**73.36**				

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 ($)
P.F. AUDITS & PROJECTS	$ -	$ 28,188	-$ 28,188	0.00	0	0	0	$ 28,188
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 -**	$ -	$ 28,188	-$ 28,188	0.00	0	0	0	$ 28,188
Industrial Indirect Costs not attributable to any specific program →				*Total Industrial kWh Delivered in 2007*				
Total TRC Costs		$ 28,188			System Peak in 2007		75,000	
****Totals TRC - Industrial**	**$ -**	**$ 28,188**	**-$ 28,188**	**0.00**				

5. Agricultural Programs

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

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

	TRC Benefits (PV)	TRC Costs (PV)	$ Net TRC Benefits	Benefit/Cost Ratio	Report Year Total kWh Saved	Lifecycle (kWh) Savings	Total Peak Demand (kW) Saved	Report Year Gross C&DM Expenditures ($)
Name of Program A			$ -	0.00				
Name of Program 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	$ -
Agricultural Indirect Costs not attributable to any specific program →				*Total Agricultural kWh Delivered in 2007*				
Total TRC Costs		$ -			System Peak in 2007		75,000	
****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 ($)
System Optimization	$ 260,455	$ 22,995	$ 237,460	11.33	295,650	5,913,000	34	$ 22,995
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 -**	$ 260,455	$ 22,995	$ 237,460	11.33	295,650	5,913,000	34	$ 22,995
LDC System Indirect Costs not attributable to any specific program →				*Total Losses kWh Delivered in 2007*				
Total TRC Costs		$ 22,995			System Peak in 2007		75,000	
****Totals TRC - LDC System**	**$ 260,455**	**$ 22,995**	**$ 237,460**	**11.33**				

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 ($)	3,283

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 -**	$ -	$ -	$ -	0.00	0	0	0	$ -
Other #1 Indirect Costs not attributable to any specific program				*Total Other kWh Delivered in 2007*				
Total TRC Costs		$ -			System Peak in 2007		75,000	
****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 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				*Total Other kWh Delivered in 2007*				
Total TRC Costs		$ -			System Peak in 2007		75,000	
****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**	$ 268,582	$ 127,297	$ 141,285	2.11	$ 305,192	$ 6,103,818	$ 49	$ 133,690
*Any **other** Indirect Costs not attributable to any specific program*				*Total kWh Delivered in 2007*			413,387,592.00	
TOTAL ALL LDC COSTS		$ 127,297			System Peak in 2007		75,000	
****LDC' PORTFOLIO TRC**	$ 268,582	$ 127,297	$ 141,285	2.11				
				Total kWh Delivered 05/06			794,237,000.00	

* 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:** CONSERVATION WEBSITE

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

Conservation Internet site directing customers to various CD&M related resources.

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 (months):	0.00		
Number of participants or units 05/06	1		
Number of Participants or units delivered life-to-date	1.00		

B. **TRC Results:**

	Reporting Year	2005/2006 TRC Results	Life-to-date TRC Results:
[1] *TRC Benefits ($):*	$ -		$ -
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 1,485.25	$ 22,934.09	$ 24,419.34
Incremental Measure Costs (Equipment Costs)	$ -		$ -
Total TRC costs:	$ 1,485.25	$ 22,934.09	$ 24,419.34
Net TRC (in year CDN $):	-$ 1,485.25	-$ 22,934.09	-$ 24,419.34
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	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	0	0
			05/06 Lifecycle	*05/06 Annual*

Other resources saved :		
Natural Gas (m3):	0	0
Water (l)	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:

	lifecycle	in year
Peak load savings (kW):		
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):	
Energy generated (kWh):	
Peak energy generated (kWh):	
Fuel type:	

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

		Reporting Year	2005/2006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	*Incremental O&M:*	$ 1,485.25	$ 22,934.09	$ 24,419.34
	Incentive:	$ -		$ -
	Total:	$ 1,485.25	$ 22,934.09	$ 24,419.34
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 1,485.25	22,934.09	24,419.34

E. Assumptions & Comments:

Several additions have been made to the conservation section of the corporate website. Such as: a) extensive Voluntary Blackout Day 2006 coverage and b) introduction of the Virtual Education Centre. Plans to expand this section and provide further resources for customers will allow for further development of the website.

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 numebr 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)

A. **Name of the Program:** CUSTOMER SURVEY

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

TRC - 1 Customer surveys to determine appliance saturation, customer satisfaction. TRC - 2 Second customer survey during Woodstock event that include CFL give-aways for completing questionaire

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4
Base case technology:	0	60 incandescent	0.00	0.00
Efficient technology:	0	15 watt CFL	#REF!	0.00
Number of participants or units delivered:	0.00	0.00	0.00	0.00
Measure life (months):	0.00	51.72	0.00	0.00
Number of participants or units 05/06	1	300		
Number of Participants or units delivered life-to-date	1.00	300.00	0.00	0.00

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -	$ 7,330.45	$ 7,330.45
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ -	$ 2,107.69	$ 2,107.69
Incremental Measure Costs (Equipment Costs)	$ -	$ 540.00	$ 540.00
Total TRC costs:	$ -	$ 2,647.69	$ 2,647.69
Net TRC (in year CDN $):	$0.00	$ 4,682.76	$ 4,682.76
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	$ 2.77	$ 2.77

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	0.00	Report Summer Demand (kW)	
	Winter	6.08	0.00	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	121500	28188
			05/06 Lifecycle	*05/06 Annual*
			121500	28188

Other resources saved :

Natural Gas (m3):	0	0
Water (l)	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 Displacement Programs:

Amount of DG installed (kW):	
Energy generated (kWh):	
Peak energy generated (kWh):	
Fuel type:	

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

			2005/2006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -	$ 840.00	$ 840.00
	Incremental O&M:	$ -	$ 3,107.69	$ 3,107.69
	Incentive:	$ -		$ -
	Total:	$ -	$ 3,947.69	$ 3,947.69
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	3,947.69	3,947.69

E. Assumptions & Comments:

Appliance saturation survey was part of the Cost Allocation study in cooperation with the CHEC group of utilities. CFL give-away with our involvement in

[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 numebr 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)

A. **Name of the Program:** WHSI 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	Progr. Thermostats	Motion Sensors	Dimmers
Number of participants or units delivered:	0.00	0.00	0.00	0.00	0.00	0.00
Measure life (years):	4.00	20.00	20.00	18.00	20.00	10.00
Number of participants or units 05/06	8274	58	433	3356	52	139
Number of Participants or units delivered life-to-date	8,274.00	58.00	433.00	3,356.00	52.00	139.00

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -	$ 835,877.90	$ 835,877.90
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ -	$ 8,153.58	$ 8,153.58
Participant cost:	$ -	$ 221,118.75	$ 221,118.75
Total TRC costs:	$ -	$ 229,272.33	$ 229,272.33
Net TRC (in year CDN $):	$0.00	$ 606,605.57	$ 606,605.57
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	$ 3.65	$ 3.65

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

Conservation Programs:

Demand savings (kW): *Summer* 0.00

Winter 0.00

Cumulative Results:

Report Summer Demand (kW)

0.00

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	16525963.08	1512028.06
			05/06 Lifecycle	*05/06 Annual*
			16525963.08	1512028.06

Other resources saved :

Natural Gas (m3):	0	0
Water (l)	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 Displacement Programs:
Amount of DG installed (kW):
Energy generated (kWh):
Peak energy generated (kWh):
Fuel type:

Other Programs (specify):
Metric (specify):

D. **Program Costs*:**

			2005/2006 Costs	**Cumlative Life to Date**
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -	$ 8,153.58	$ 8,153.58
	Incentive:	$ -		$ -
	Total:	$ -	$ 8,153.58	$ 8,153.58
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	8,153.58	8,153.58

E. Comments:

SPRING: Direct Mail Coupons = 251. In-store Coupons = 5875. FALL: Direct Mail Coupons = 515. In-Store Coupons = 5642.

[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 numebr 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)

A. **Name of the Program:** WHSI PF Projects COOL SHOPS

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

Cool Shop project to provide in place energy savings for commercial customers.

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:	0	0.00	0.00	0.00	0.00	0.00
Number of participants or units delivered:	0.00	0.00	0.00	0.00	0.00	0.00
Measure life (years):	2.00	5.48	5.00	3.08	25.11	0.00
Number of participants or units 05/06	2229	230	15	42	228	
Number of Participants or units delivered life-to-date	2,229.00	230.00	15.00	42.00	228.00	0.00

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -	$ 116,019.37	$ 116,019.37
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ -	$ 40,837.86	$ 40,837.86
Participant cost:	$ -	$ 33,280.35	$ 33,280.35
Total TRC costs:	$ -	$ 74,118.21	$ 74,118.21
Net TRC (in year CDN $):	$0.00	$ 41,901.16	$ 41,901.16
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	$ 1.57	$ 1.57

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

Conservation Programs:

Demand savings (kW): *Summer* 0.00

Winter 0.00

	lifecycle	*in year*	**Cumulative Results:** Report Summer Demand (kW) 0.00 — *Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	2170960.08	459803.9
			05/06 Lifecycle	*05/06 Annual*
			2170960.08	459803.9

Other resources saved :

Natural Gas (m3):	0	0
Water (l)	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 Displacement Programs:
Amount of DG installed (kW):
Energy generated (kWh):
Peak energy generated (kWh):
Fuel type:

Other Programs (specify):
Metric (specify):

D. **Program Costs*:**

			2005/2006 Costs	**Cumlative Life to Date**
Utility direct costs ($):	*Incremental capital:*	$ -	$ 9,371.16	$ 9,371.16
	Incremental O&M:	$ -	$ 40,880.76	$ 40,880.76
	Incentive:	$ -		$ -
	Total:	$ -	$ 50,251.92	$ 50,251.92
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	50,251.92	50,251.92

E. **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 numebr 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)

A. **Name of the Program:** System Optimization

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

Implemented results of open point evaluation to reduce line losses in the distribution system. Altering the open points reduced line flows and the associated line losses.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Traditional Open Points		
Efficient technology:	sed Open Points Based on Losses		
Number of participants or units delivered:	1.00		
Measure life (years):	20.00		
Number of participants/units 05&06			
Number of Participants or units delivered life-to-date	1.00		

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	*$ 260,454.96*		$ 260,454.96
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 22,995.27	$ 9,329.13	$ 32,324.40
Incremental Measure Costs (Equipment Costs)	$ -	-$ 9,329.13	-$ 9,329.13
Total TRC costs:	$ 22,995.27	$ -	$ 22,995.27
Net TRC (in year CDN $):	$ 237,459.69	$ -	$ 237,459.69
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	11.33	#DIV/0!	$ 11.33

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

Cumulative Results:

Conservation Programs:

			Report Summer Demand (kW)	
Demand savings (kW):	*Summer*	33.75	33.75	
	Winter	33.75		
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*5,913,000.00*	295,650.00	5913000	295650
			Total 05&06 Lifecycle	*05&06 Annual*

Other resources saved :

Natural Gas (m3):	0	0
Water (l)	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 Displacement Programs:

Amount of DG installed (kW):
Energy generated (kWh):
Peak energy generated (kWh):
Fuel type:

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	Total 05&06 Costs	Cumlative Life to Date
Utility direct costs ($): Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ 22,995.27		$ 22,995.27
	Incentive:	$ -		$ -
	Total:	$ 22,995.27	$ -	$ 22,995.27
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 22,995.27	-	22,995.27

E. Assumptions & Comments:

There are no on-going costs associated with the change and project costs have been shown as LDC costs. Hence there are no discounted measures cost.

[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 numebr 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:** SIGNAL/STREET LIGHTS

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

Conversion of 23 intersections to LED Traffic Lights

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):	7.00		
Number of participants or units 05/06	1		
Number of Participants or units delivered life-to-date	1.00		

B.

TRC Results:	**Reporting Year**	**05/06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -	$ 126,437.47	$ 126,437.47
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ -	$ 23,762.65	$ 23,762.65
Incremental Measure Costs (Equipment Costs)	$ -	$ 3,800.00	$ 3,800.00
Total TRC costs:	$ -	$ 27,562.65	$ 27,562.65
Net TRC (in year CDN $):	$ -	$ 98,874.82	$ 98,874.82
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	$ 4.59	$ 4.59

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

Conservation Programs:

			Cumulative Results:	
Demand savings (kW):	*Summer*	5.03	Report Summer Demand (kW)	
	Winter	5.03	5.03	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	2441082	348726
			05/06 Lifecycle	*05/06 Annual*
			2,441,082.00	348,726.00

Other resources saved :

Natural Gas (m3):	0	0
Water (l)	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 Displacement Programs:

Amount of DG installed (kW):
Energy generated (kWh):
Peak energy generated (kWh):
Fuel type:

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	2005/2006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -	$ 23,619.85	$ 23,619.85
Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	*Incremental O&M:*	$ -	$ 142.80	$ 142.80
	Incentive:	$ -		$ -
	Total:	$ -	$ 23,762.65	$ 23,762.65
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	23,762.65	23,762.65

E. Assumptions & Comments:

23 intersections in the city were converted to LED technology

[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 numebr 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:** PARTNERSHIP/SPONSORSHIP

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

Energy Innovation Award - TRC1, SLED Fundraiser - TRC2, PV Raffle - TRC3

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4
Base case technology:	0	Incandescent Strings	0.00	0.00
Efficient technology:	0	SLED Lights	Energy Expo	0.00
Number of participants or units delivered:	0.00	0.00	1,000.00	0.00
Measure life (years):	0.00	30.00	0.00	0.00
Number of participants or units 05/06	1	316	1	
Number of Participants or units delivered life-to-date	1.00	316.00	1,001.00	0.00

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -	$ 4,921.19	$ 4,921.19
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ 15,937.29	$ 15,729.27	$ 31,666.56
Participant cost:	$ -	$ 600.40	$ 600.40
Total TRC costs:	$ 15,937.29	$ 16,329.67	$ 32,266.96
Net TRC (in year CDN $):	-$15,937.29	-$ 11,408.48	-$ 27,345.77
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.00	$ 0.30	$ 0.15

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

Conservation Programs:

			Cumulative Results:	
Demand savings (kW):	*Summer*	0.00	Report Summer Demand (kW)	
	Winter	2.47	0.00	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	169824.34	5660.81
			05/06 Lifecycle	*05/06 Annual*
			169824.34	5660.81

Other resources saved :

Natural Gas (m3):	0	0
Water (l)	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 Displacement Programs:			
Amount of DG installed (kW):			
Energy generated (kWh):			
Peak energy generated (kWh):			
Fuel type:			
Other Programs (specify):			
Metric (specify):			

D. **Program Costs*:**

			2005/2006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -	$ 1,264.00	$ 1,264.00
	Incremental O&M:	$ 15,937.29	$ 7,963.64	$ 23,900.93
	Incentive:	$ -		$ -
	Total:	$ 15,937.29	$ 9,227.64	$ 25,164.93
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 15,937.29	9,227.64	25,164.93

E. Comments:

PV Raffle section will be moved to the category RENEWABLE ENERGY DEMO following OEB approval.

[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 numebr 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)

A. **Name of the Program:** P.F. AUDITS & PROJECTS

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

SLED Exchange - TRC1, Energy Savings Finance - TRC2 In 2007 Power Factor incentive with industry and project cost.

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4
Base case technology:	Incandescent Strings			
Efficient technology:	SLEDS Lights	Energy Savings Finance	P.F Audits	Innovator Award
Number of participants or units delivered:	0.00	1.00	3.00	300.00
Measure life (months):	360.00	300.00	0.00	0.00
Number of participants or units 05/06	747	2	0	
Number of Participants or units delivered life-to-date	747.00	3.00	3.00	300.00

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -	$ 124,539.98	$ 124,539.98
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ 28,188.00	$ 40,281.02	$ 68,469.02
Incremental Measure Costs (Equipment Costs)	$ -	$ 46,419.30	$ 46,419.30
Total TRC costs:	$ 28,188.00	$ 86,700.32	$ 114,888.32
Net TRC (in year CDN $):	-$28,188.00	$ 37,839.66	$ 9,651.66
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.00	$ 1.44	$ 1.08

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	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	8096451.84	321181.73
			05/06 Lifecycle	*05/06 Annual*
			8096451.84	321181.73
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	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:

	lifecycle	in year
Peak load savings (kW):		
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):	
Energy generated (kWh):	
Peak energy generated (kWh):	
Fuel type:	

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

			2005/2006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -	$ -	$ -
	Incremental O&M:	$ 28,188.07	$ 40,281.02	$ 68,469.09
	Incentive:	$ -		$ -
	Total:	$ 28,188.07	$ 40,281.02	$ 68,469.09
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 28,188.07	40,281.02	68,469.09

E. Assumptions & Comments:

See www.woodstockhydro.com for details

[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 numebr 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)

A. **Name of the Program:** EDUCATION & PROMOTION

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

Voluntary Blackout Day (Municipal energy challenge) - TRC1, Renewable Energy and Conservation interactive Kiosk - TRC2, Advertising campaigns (radio, bus, newspapers, Media consultants) - TRC3, Kill-A-Watt Monitors - TRC4, Crank Radios - TRC5

Measure(s):

	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5
Base case technology:					
Efficient technology:	Kiosk	Advertising Campaign	Kill-A-Watt Monitors	Crank Radios	Workshops
Number of participants or units delivered:	5,000.00	5,000.00	200.00	100.00	120.00
Measure life (months):	0.00	0.00	0.00	0.00	0.00
Number of participants or units 05/06	1	1	1	24	100
Number of Participants or units delivered life-to-date	5,001.00	5,001.00	201.00	124.00	220.00

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -	$ 199.32	$ 199.32
[2] *Measure's Costs ($):*			
Utility program cost (less incentives):	$ 10,791.80	$ 53,178.30	$ 63,970.10
Incremental Measure Costs (Equipment Costs)	$ -		$ -
Total TRC costs:	$ 10,791.80	$ 53,178.30	$ 63,970.10
Net TRC (in year CDN $):	-$10,791.80	-$ 52,978.98	-$ 63,770.78
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.00	$ 0.00	$ 0.00

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):

		Report Summer Demand (kW)
Summer	0.00	
Winter	0.00	0.00

	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	0	36000
			05/06 Lifecycle	*05/06 Annual*
				36000

Other resources saved :

Natural Gas (m3):	0	0
Water (l)	0	0

Demand Management Programs:

Controlled load (kW)	2200
Energy shifted On-peak to Mid-peak (kWh):	

Energy shifted On-peak to Off-peak (kWh):		43500
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 Displacement Programs:		
Amount of DG installed (kW):		
Energy generated (kWh):		
Peak energy generated (kWh):		
Fuel type:		
Other Programs (specify):		
Metric (specify):		

D.	**Program Costs*:**			**2005/2006 Costs**	**Cumlative Life to Date**
	Utility direct costs ($):	*Incremental capital:*	$ -	$ -	$ -
		Incremental O&M:	$ 10,791.80	$ 53,178.30	$ 63,970.10
		Incentive:	$ -		$ -
		Total:	$ 10,791.80	$ 53,178.30	$ 63,970.10
	Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
		Incremental O&M:	$ -		$ -
		Total:	$ -	$ -	$ -
	Total Utility Cost of Program		$ 10,791.80	53,178.30	63,970.10

E. Assumptions & Comments:

Significantly over-budget. We have requested re-allocation of funds from SMART METERING account that will correct over-budget. Fund adjustments made.

[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 numebr 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)

A. **Name of the Program:** SMART METERS/INTERVAL/PAYG

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

Initially the intention was to expand the Pay-as-you-go metering program. That project did not move forward. Planning for industrial/commercial interval metering and enhanced load monitoring capabilities was implemented in 2006.

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:	80.00		
Measure life (years):	0.00		
Number of participants or units 05/06	1		
Number of Participants or units delivered life-to-date	81.00		

B. **TRC Results:**

	Reporting Year	2005/2006 TRC Results	Life-to-date TRC Results:
[1] *TRC Benefits ($):*	$ -		$ -
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 3,282.86	$ 70,238.93	$ 73,521.79
Incremental Measure Costs (Equipment Costs)	$ -		$ -
Total TRC costs:	$ 3,282.86	$ 70,238.93	$ 73,521.79
Net TRC (in year CDN $):	-$ 3,282.86	-$ 70,238.93	-$ 73,521.79
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	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	0	0
			2005 Lifecycle	*2005 Annual*

Other resources saved :

Natural Gas (m3):	0	0
Water (l)	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 Displacement Programs:

Amount of DG installed (kW):
Energy generated (kWh):
Peak energy generated (kWh):
Fuel type:

Other Programs (specify):

Metric (specify):

D. **Program Costs*:**

		Reporting Year	2005/2006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -	$ 68,566.53	$ 68,566.53
Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	*Incremental O&M:*	$ 3,282.86	$ 1,672.42	$ 4,955.28
	Incentive:	$ -		$ -
	Total:	$ 3,282.86	$ 70,238.95	$ 73,521.81
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 3,282.86	70,238.95	73,521.81

E. Assumptions & Comments:

Bulk of cost support incremental cost to conver GS>100 customers to interval meter with internet access. Adjustment required to NET TRC due to reporting change by OEB. Adjustment is addition of 1672.42.

[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 numebr 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:** 2005 Lighten Your Electricity Bill Program

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

Woodstock Hydro participate with 31 othe LDCs in a fal coupon campaign with Canadian Tire. Engergyshop.com was engaged to design, deliver and track the program. Details of the program reported in 2005 Annual CDM Report.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	0		
Efficient technology:	Seeline Report of 2005		
Number of participants or units delivered:	0.00		
Measure life (months):	0.00		
Number of participants or units 05/06	1146		
Number of Participants or units delivered life-to-date	1,146.00		

B.

TRC Results:	**Reporting Year**	**2005/2006 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ -	$ 51,405.00	$ 51,405.00
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ -	$ 2,798.00	$ 2,798.00
Incremental Measure Costs (Equipment Costs)	$ -	$ 6,439.00	$ 6,439.00
Total TRC costs:	$ -	$ 9,237.00	$ 9,237.00
Net TRC (in year CDN $):	$ -	$ 42,168.00	$ 42,168.00
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	#DIV/0!	$ 5.57	$ 5.57

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

Conservation Programs:

			Cumulative Results:
Demand savings (kW):	*Summer*	0.00	Report Summer Demand (kW)
	Winter	0.00	0.00
	lifecycle	*in year*	*Cumulative Lifecycle* / *Cumulative Annual Savings*
Energy saved (kWh):	*0.00*	0.00	1063059 / 122200
			05/06 Lifecycle / *05/06 Annual*
			1063059 / 122200

Other resources saved :

Natural Gas (m3):	0	0
Water (l)	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:

	lifecycle	in year
Peak load savings (kW):		
Energy savngs (kWh):		

Distributed Generation and Load Displacement Programs:

Amount of DG installed (kW):	
Energy generated (kWh):	
Peak energy generated (kWh):	
Fuel type:	

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

		Reporting Year	2005/2006 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -	$ 2,730.00	$ 2,730.00
	Incentive:	$ -	$ 3,500.00	$ 3,500.00
	Total:	$ -	$ 6,230.00	$ 6,230.00
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ -	6,230.00	6,230.00

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 numebr 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)

A. **Name of the Program:** Photo Array 1kW Installation

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

Woodstock Hydro developed a Photo Voltaic Array Demonstration Project. As part of that project the array was used as a prize in a community draw. The array has now been installed on the winners home.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)	Measure 5	Measure 6
Base case technology:	No renewable energy supply			0.00	0.00
Efficient technology:	1 kW Photo Array on Residential Home			0.00	0.00
Number of participants or units delivered:	500.00			0.00	0.00
Measure life (years):	20.00			0.00	0.00
Number of participants/units 05&06					
Number of Participants or units delivered life-to-date	500.00			0.00	0.00

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	*$ 1,524.40*		$ 1,524.40
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ 46,008.98		$ 46,008.98
Incremental Measure Costs (Equipment Costs)	$ 1,800.00		$ 1,800.00
Total TRC costs:	$ 47,808.98	$ -	$ 47,808.98
Net TRC (in year CDN $):	-$ 46,284.58	$ -	-$ 46,284.58
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	0.03	#DIV/0!	$ 0.03

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	0.63	Report Summer Demand (kW)	
	Winter	0.00	0.63	
	lifecycle	*in year*	*Cumulative Lifecycle*	*Cumulative Annual Savings*
Energy saved (kWh):	*20,520.00*	1,026.00	20520	1026
			Total 05&06 Lifecycle	*05&06 Annual*
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	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 Displacement Programs:
Amount of DG installed (kW):
Energy generated (kWh):
Peak energy generated (kWh):
Fuel type:

Other Programs (specify):
Metric (specify):

D. **Program Costs*:**

		Reporting Year	Total 05&06 Costs	Cumlative Life to Date
Utility direct costs ($): Includes Measure's Cost - ensure full cost of measure entered in TRC!L15	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ 46,008.98		$ 46,008.98
	Incentive:	$ -		$ -
	Total:	$ 46,008.98	$ -	$ 46,008.98
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 46,008.98	-	46,008.98

E. Assumptions & Comments:

Estimated that the array would require an additional $100 of maintenance each year for a 20 year period.

[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 numebr 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:** PV LED Signs

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

Installation of two photovoltaic powered LED lighted signs. The installations went in through the encouragement of the LDC and evaluation of the costing.

Measure(s):

	Measure 1	Measure 2 (if applicable)	Measure 3 (if applicable)
Base case technology:	Traditional Sign Lighting		
Efficient technology:	PV Powered LED Sign Lighting		
Number of participants or units delivered:	2.00		
Measure life (years):	20.00		
Number of participants/units 05&06			
Number of Participants or units delivered life-to-date	2.00		

B.

TRC Results:	**Reporting Year**	**Total 05&06 TRC Results**	**Life-to-date TRC Results:**
[1] *TRC Benefits ($):*	$ 6,602.16		$ 6,602.16
[2] *TRC Costs ($):*			
Utility program cost (less incentives):	$ -		$ -
Incremental Measure Costs (Equipment Costs)	$ 90.00		$ 90.00
Total TRC costs:	$ 90.00	$ -	$ 90.00
Net TRC (in year CDN $):	$ 6,512.16	$ -	$ 6,512.16
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	73.36	#DIV/0!	$ 73.36

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

Cumulative Results:

Conservation Programs:

Demand savings (kW):	*Summer*	0.90	port Summer Demand (k	
	Winter	0.00	0.90	
			Cumulative Lifecycle	*Cumulative Annual Savings*
	lifecycle	*in year*		
Energy saved (kWh):	*170,298.00*	8,514.90	170298	8514.9
			Total 05&06 Lifecycle	*05&06 Annual*
Other resources saved :				
Natural Gas (m3):	0	0		
Water (l)	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 Displacement Programs:

Amount of DG installed (kW):	
Energy generated (kWh):	
Peak energy generated (kWh):	
Fuel type:	

Other Programs (specify):

Metric (specify):	

D. **Program Costs*:**

		Reporting Year	Total 05&06 Costs	Cumlative Life to Date
Utility direct costs ($):	*Incremental capital:*	$ -		$ -
0	*Incremental O&M:*	$ -		$ -
	Incentive:	$ 5,000.00		$ 5,000.00
	Total:	$ 5,000.00	$ -	$ 5,000.00
Utility indirect costs ($):	*Incremental capital:*	$ -		$ -
	Incremental O&M:	$ -		$ -
	Total:	$ -	$ -	$ -
Total Utility Cost of Program		$ 5,000.00	-	5,000.00

E. Assumptions & Comments:

The equipment cost for the PV installation was comparable to the cost of installing hard wired services and the associated equipment. Hence no incremental cost. Maintenance of the lights are reduced by using the LED technolgy however there are batteries to maintain. Estimate that the difference in maintenance would be an additional $100 per year for the PV system. Free ridership is zero as the installation is a direct result of LDC involvement however 10% has been used.

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 numebr 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