



2006 ANNUAL REPORT  
CDM Third Tranche Funding  
KENORA HYDRO

ED - 2003-0030

- Janice Robertson
- Manager of Finance  
& Regulatory Affairs
- [jrobertson@kenora.ca](mailto:jrobertson@kenora.ca)
- Phone (807) 467-2014
- Fax (807) 467-2068



## INTRODUCTION

Kenora Hydro Electric Corporation Ltd began its implementation of the approved CDM Plan late in 2005. To date, two components of the plan have been completed, the conversion of the City of Kenora's traffic lights to LED's and a Conservation Kit giveaway. These two programs are analyzed in this report.



## EVALUATION OF THE CDM PLAN

See Appendix A, evaluation of the CDM Plan for the LED Traffic light program and the Conservation Kit giveaway.



## LESSONS LEARNED

### **Traffic Light Conversion**

Kenora Hydro concentrated efforts on the completion of the traffic light conversion in 2006, with 9 traffic lights converted from incandescent to LED technology, which will prove to be a conservation success story, providing a benefit to cost ratio of 1.99. There are no more intersections to be converted in the future, this part of the CDM program is now complete.

### **Energy Conservation Kits**

This program was also completed in 2006, as Kenora Hydro gave away 100 energy Conservation Kits. There is anticipated to be a 9.43 cost to benefit ratio on these kits, as the items inside accrued a measurable cost savings for those who have received them, assuming proper installation and use of the products.



## CONCLUSION

Kenora Hydro has completed one major program, the LED traffic light conversion, as was originally filed under the CDM plan. Recent announcements regarding future programs to be administered by the OPA has resulted in a review of our CDM plans, to ensure they do not duplicate the OPA programs, but rather, compliment them in some manner. The OPA has announced the refrigerator buyback program, and Kenora Hydro would like to compliment this with an appliance purchase rebate to customers taking advantage of that program. In addition, there were programs originally identified in our CDM plan that now appear to duplicate the OPA's programs, the refrigerator buyback program as an example.

In light of these recent OPA announcements, and a review of our CDM plans, as of the date of this report, Kenora Hydro has applied to the Ontario Energy Board to reallocate funding within our existing CDM plan, and to extend the deadline for completion of our CDM spending to spring of 2008. This will allow further co-ordination and planning to create programs resulting in the greatest benefit for Kenora Hydro customers.

## 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.

	<sup>5</sup> Cumulative Totals Life-to-date	Total for 2006	Residential	Commercial	Institutional	Industrial	Agricultural	LDC System	<sup>4</sup> Smart Meters	Other #1	Other #2
<i>Net TRC value (\$):</i>	44,409	\$ 44,409	\$ 18,789	\$ 25,620	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
<i>Benefit to cost ratio:</i>	2.57	2.57	9.43	1.99	0.00	0.00	0.00	0.00		0.00	0.00
<i>Number of participants or units delivered:</i>	101	101	100	1							
<i>Lifecycle (kWh) Savings:</i>	1,358,876	1,358,876	302,988	1,055,888	0	0	0	0		0	0
<i>Report Year Total kWh saved (kWh):</i>	202,185	202,185	100,996	101,189	0	0	0	0		0	0
<i>Total peak demand saved (kW):</i>		60	48	12	0	0	0	0		0	0
<i>Total kWh saved as a percentage of total kWh delivered (%):</i>	0.200	0.200	0.100	0.100							
<i>Peak kW saved as a percentage of LDC peak kW load (%):</i>		0.290	0.230	0.060							
<sup>1</sup> <i>Report Year Gross C&amp;DM expenditures (\$):</i>	30,184	\$ 16,377	\$ 4,185	\$ 12,192	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<sup>2</sup> <i>Expenditures per kWh saved (\$/kWh):</i>	0.14	\$ 0.08	\$ 0.04	\$ 0.12	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
<sup>3</sup> <i>Expenditures per KW saved (\$/kW):</i>		\$ 273.63	\$ 86.64	\$ 1,055.61	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -
<i>Utility discount rate (%):</i>	7.75										

<sup>1</sup> Expenditures are reported on accrual basis.

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

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

<sup>4</sup> 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.

<sup>5</sup> 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).