

## 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.

	Total for 2008	Residential	<sup>5</sup> Low Income	Commercial	Institutional	Industrial	Agricultural	LDC System	<sup>4</sup> Smart Meters	Other #1	Other #2
<i>Net TRC value (\$):</i>	\$ 25,449	\$ 22,744	\$ -	\$ 2,505	\$ 18	\$ -	\$ -	\$ -		\$ -	\$ -
<i>Benefit to cost ratio:</i>	-1.34	0.00		0.00	0.00	0.00	0.00	0.00		0.00	0.00
<i>Number of participants or units delivered:</i>	1.00	0.89	-	0.10	0.01						
<i>Lifecycle (kWh) Savings:</i>	2,742,625	2,451,086	0	269,943	20,053	0	0	0		0	0
<i>Report Year Total kWh saved (kWh):</i>	109,705	98,043	0	10,798	802	0	0	0		0	0
<i>Total peak demand saved (kW):</i>	950	849	0	94	7	0	0	0		0	0
<i>Total kWh saved as a percentage of total kWh delivered (%):</i>	0.35%	0.47%	0.00%	0.20%	0.02%						
<i>Peak kW saved as a percentage of LDC peak kW load (%):</i>	1.4%	1.9%	0.0%	0.3%	0.1%						
<sup>1</sup> <i>Report Year Gross C&amp;DM expenditures (\$):</i>	-\$ 75,072	-\$ 67,092	\$ -	-\$ 7,389	-\$ 549	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<sup>2</sup> <i>Expenditures per kWh saved (\$/kWh):</i>	-\$ 0.03	-\$ 0.03	\$ -	-\$ 0.03	-\$ 0.03	\$ -	\$ -	\$ -		\$ -	\$ -
<sup>3</sup> <i>Expenditures per kW saved (\$/kW):</i>	-\$ 79.02	-\$ 79.02	\$ -	-\$ 78.61	-\$ 78.43	\$ -	\$ -	\$ -		\$ -	\$ -

<i>Utility discount rate (%):</i>	
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<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.



# Appendix B - Discussion of the Program

**(complete this Appendix for each program)**

A. **Name of the Program:** LINE LOST STUDY- OPTIMAZATION OF THE SYSTEM

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

STANTEC CONSULTING LTD HAS CONDUCT A STUDY INCLUDING LINE LOST STUDY AND OPTIMIZATION OF THE DISTRIBUTION SYSTEM OF COOPERATIVE HYDRO EMBRUN INC. IN MID-JULY 2005. THE STUDY RESULTS A SAVING OF 109,760 kWh PER YEAR AND REDUCTION OF 38 kW PEAK DEMAND YEARLY

LINE LOST STUDY- OPTIMAZATION OF THE SYSTEM

**Measure(s):**

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

<b>B. TRC Results:</b>	<b>Reporting Year</b>	<b>TRC Results:</b>
<sup>1</sup> TRC Benefits (\$):	\$ 100,521.12	
<sup>2</sup> TRC Costs (\$):		
Utility program cost (excluding incentives):	-\$ 75,072.00	
Incremental Measure Costs (Equipment Costs)		
<b>Total TRC costs:</b>	<b>-\$ 75,072.00</b>	
<b>Net TRC (in year CDN \$):</b>	<b>\$ 25,449.12</b>	
Benefit to Cost Ratio (TRC Benefits/TRC Costs):	-\$ 1.34	

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

**Conservation Programs:**

Demand savings (kW):		Summer			
		Winter			
	lifecycle		in year		
Energy saved (kWh):					
Other resources saved :					
Natural Gas (m3):					
Other (specify):					

**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 beginning of year (%):		
Distribution system power factor at end of year (%):		

**Line Loss Reduction Programs:**

Peak load savings (kW):		38
	<i>lifecycle</i>	<i>in year</i>
Energy savings (kWh):	2742625	109705

**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):		
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<b><u>D. Actual Program Costs:</u></b>		<b><u>Reporting Year</u></b>	<b><u>Cumulative Life to Date</u></b>
Utility direct costs (\$):	Incremental capital:		
	Incremental O&M:		
	Incentive:		
	Total:		
Utility indirect costs (\$):	Incremental capital:		
	Incremental O&M:		
	Incentive:		
	Total:		

**E. Assumptions & Comments:**

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

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

Report Year:

## 1. Residential Programs

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

Note: To ensure the integrity of the 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				
<b>*Totals App. B - Residential</b>	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
Residential Indirect Costs not attributable to any specific program	→							
<b>Total Residential TRC Costs</b>		\$ -						
<b>**Totals TRC - Residential</b>	\$ -	\$ -	\$ -	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				
<b>*Totals App. B - Commercial</b>	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -

Commercial Indirect Costs not attributable to any specific program



<b>Total TRC Costs</b>		\$	-			
<b>**Totals TRC - Commercial</b>	\$	-	\$	-	\$	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 (\$)
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				
<b>*Totals App. B - Institutional</b>	\$	-	\$	-	0	0	0	\$ -

Institutional Indirect Costs not attributable to any specific program



<b>Total TRC Costs</b>		\$	-			
<b>**Totals TRC - Institutional</b>	\$	-	\$	-	\$	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				
<b>*Totals App. B - Industrial</b>	\$	-	\$	-	0.00	0	0	0	\$ -
Industrial Indirect Costs not attributable to any specific program	→								
<b>Total TRC Costs</b>		\$	-						
<b>**Totals TRC - Industrial</b>	\$	-	\$	-	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 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				
<b>*Totals App. B - Agricultural</b>	\$	-	\$	-	0	0	0	\$ -
Agricultural Indirect Costs not attributable to any specific program	→							
<b>Total TRC Costs</b>		\$	-					
<b>**Totals TRC - Agricultural</b>	\$	-	\$	-	0.00			

## 6. LDC System Programs

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

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

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

Name of Program C			\$	-	0.00				
Name of Program D			\$	-	0.00				
Name of Program E			\$	-	0.00				
Name of Program F			\$	-	0.00				
Name of Program G			\$	-	0.00				
Name of Program H			\$	-	0.00				
Name of Program I			\$	-	0.00				
Name of Program C			\$	-	0.00				
<b>*Totals App. B - LDC System</b>	\$	-	\$	-	0.00	0	0	0	\$ -

LDC System Indirect Costs not attributable to any specific program →

<b>Total TRC Costs</b>		\$	-						
<b>**Totals TRC - LDC System</b>	\$	-	\$	-	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			
<b>*Totals App. B - Other #1</b>	\$	-	\$	-	0.00	0	0	\$ -

Other #1 Indirect Costs not attributable to any specific program →

<b>Total TRC Costs</b>		\$	-					
<b>**Totals TRC - Other #1</b>	\$	-	\$	-	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				
<b>*Totals App. B - Other #2</b>	\$ -	\$ -	\$ -	0.00	0	0	0	\$ -
<i>Other #2 Indirect Costs not attributable to any specific program</i>								
<b>Total TRC Costs</b>		\$ -						
<b>**Totals TRC - Other #2</b>	\$ -	\$ -	\$ -	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 (\$)
<b>*TOTALS FOR ALL APPENDIX B</b>	\$ -	\$ -	\$ -	0.00	\$ -	\$ -	\$ -	\$ -
<i>Any other Indirect Costs not attributable to any specific program</i>								
<b>TOTAL ALL LDC COSTS</b>		\$ -						
<b>**LDC' PORTFOLIO TRC</b>	\$ -	\$ -	\$ -	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 D - Total Life Evaluation of the CDM Plan

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

	<sup>5</sup> Cumulative Totals Life-to-date	Residential	<sup>6</sup> Low Income	Commercial	Institutional	Industrial	Agricultural	LDC System	<sup>4</sup> Smart Meters
<i>Net TRC value (\$):</i>	25449.12	\$ 22,744.00	\$ -	\$ 2,505.00	\$ 18.00	\$	\$	\$	
<i>Benefit to cost ratio:</i>	-1.34	-1.34	-1.34	-1.34	-1.34				
<i>Number of participants or units delivered:</i>	100%	89%	0%	10%	1%				
<i>Lifecycle (kWh) Savings:</i>	2742625	2451086	0	269943	20053				
<i>Total kWh saved (kWh):</i>	329115	294129	0	32394	2406				
<i>Total peak demand saved (kW):</i>	2850	2547	0	282	21				
<i>Total kWh saved as a percentage of total kWh delivered (%):</i>	1.05%	1.34%	0%	0.60%	0.05%				
<i>Peak kW saved as a percentage of LDC peak kW load (%):</i>	4.22%	5.66%	0%	2.43%	0.16%				
<sup>1</sup> <i>Gross C&amp;DM expenditures (\$):</i>	\$ 18,540.00	\$ 16,500.60	\$ -	\$ 1,854.00	\$ 185.40	\$	\$	\$	\$
<sup>2</sup> <i>Expenditures per kWh saved (\$/kWh):</i>	0.06	\$ 0.06	\$	\$ 0.06	\$ 0.08	\$	\$	\$	
<sup>3</sup> <i>Expenditures per kW saved (\$/kW):</i>	\$ 6.51	\$ 6.48	\$	\$ 6.57	\$ 8.83	\$	\$	\$	
<b>Utility discount rate (%):</b>									

<sup>1</sup> Expenditures are reported on cumulative 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. Actual expenditures for the total third tranche period need to be reported.

<sup>5</sup> 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).

<sup>6</sup> Includes totals from Low Income programs that fall under both commercial and residential.

Other #1	Other #2
\$	\$
\$	\$
\$	\$
\$	\$

