



Cooperative Hydro Embrun Inc.
821 Notre-dame Street
Embrun, ON
K0A 1W1

August 15, 2012

Ms. Kirstin Walli
Board Secretary
Ontario Energy Board
P.O. Box 2319
2300 Yonge Street, 27th Floor
Toronto, ON M4P 1E4

Re: Smart Meter Prudence Review Application EB-2012-0094

Dear Ms. Walli:

Please find enclosed an amended Draft Rate Order by Cooperative Hydro Embrun Inc. ("Cooperative Hydro Embrun") for a Smart Meter Prudence Review Application, to be effective September 1, 2012.

This document is being filed pursuant to the Board's e-Filing Services.

Yours Truly,

A handwritten signature in black ink, appearing to be 'Benoit Lamarche', written in a cursive style.

Benoit Lamarche
General Manager



Cooperative Hydro Embrun Inc.

Smart Meter Prudence Review

Draft Rate Order

EB-2012-0094

Rates Effective: May 1, 2012

Date Filed: August 15, 2012

Cooperative Hydro Embrun Inc.

821 Notre-dame Street

Embrun, ON

K0A 1W1



File Number: EB-2012-0094

Date Filed: August 15, 2012

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Draft Rate Order



File Number: EB-2012-0094

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Date Filed: August 15, 2012

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Amended Draft Rate Order

Cooperative Hydro Embrun Inc. ("CHEI") is a licensed electricity distributor that is rate regulated by the Ontario Energy Board (the "Board") under the Ontario Energy Board Act, 1998. CHEI filed a stand-alone application (the "Application") with the Board, received on March 16, 2012, seeking Board approval for the disposition and recovery of costs related to smart meter deployment, offset by Smart Meter Funding Adder ("SMFA") revenues collected from May 1, 2006 to April 30, 2012. CHEI requested approval of proposed Smart Meter Disposition Riders ("SMDRs") and Smart Meter Incremental Revenue Requirement Rate Riders ("SMIRRs") effective May 1, 2012. The Application is based on the Board's policy and practice with respect to recovery of smart meter costs.

The following is submitted in response to the Ontario Energy Board's Staff Comments on Draft Rate Order August 8, 2012 with respect to Cooperative Hydro Embrun Inc.'s ("CHEI") application for disposition and recovery of costs related to smart Meter deployment.

Board staff noted that the Board's Smart Meter Model assumed a May 1, 2012 implementation date and therefore did not take into account interest on OM&A and depreciation expenses past this date. Board staff submitted that CHEI may wish to incorporate the additional carrying charges until August 31, 2012. In addition, Board staff noted that in the Smart Meter Model, CHEI used sheet 8B for interest on OM&A and depreciation. This sheet, which calculates the annual interest, overestimated the interest historically, and particularly for 2012 where only 8 months (January 1 to August 31) should apply for a September 1, 2012 effective date for the new smart meter rate riders. Board staff submitted that the interest is more accurately calculated using sheet 8A and not sheet 8B.

CHEI concurs with Board staff and submit the following for consideration.



Amended Draft Rate Order
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Date Filed: August 15, 2012

CHEI Smart Meter Disposition

Rate Class	SMDR	SMIRR
	Eight Month Recovery	
Residential	(\$0.96)	\$1.44
General Service Less than 50 kW	\$9.73	\$4.20
General Service Greater than 50 kW	\$48.98	\$14.30

Table 1

The following table provides a summary of rate impacts as calculated in Attachment 2 to this Amended Draft Rate Order.

Summary of Bill Impacts

	Delivery		Total Bill	
	\$	%	\$	%
Residential (800 kWh)	\$0.48	1.49%	\$0.49	0.45%
General Service Less Than 50 kW (2,000 kWh)	\$13.93	19.33%	\$14.17	5.31%

Table 2

All of which is respectfully submitted.



File Number:EB-2012-0094

Tab: 1
Schedule: 2

Date Filed:August 15, 2012

Attachment 1 of 2

Tariff of Rates and Charges

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date September 1, 2012

**This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors**

EB-2012-0094

RESIDENTIAL SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less where the electricity is used exclusively in a separate metered living accommodation. Customers shall be residing in single-dwelling units that consist of a detached house or one unit of a semi-detached, duplex, triplex or quadruplex house, with a residential zoning. Separately metered dwellings within a town house complex or apartment building also qualify as residential customers. All customers are single-phase. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

No rates and charges for the distribution of electricity and charges to meet the costs of any work or service done or furnished for the purpose of the distribution of electricity shall be made except as permitted by this schedule, unless required by the Distributor's Licence or a Code or Order of the Board, and amendments thereto as approved by the Board, or as specified herein.

Unless specifically noted, this schedule does not contain any charges for the electricity commodity, be it under the Regulated Price Plan, a contract with a retailer or the wholesale market price, as applicable.

It should be noted that this schedule does not list any charges, assessments or credits that are required by law to be invoiced by a distributor and that are not subject to Board approval, such as the Debt Retirement Charge, the Global Adjustment, the Ontario Clean Energy Benefit and the HST.

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	13.63
Smart Meter Disposition Rate Rider – effective until April 30, 2013	\$	(0.96)
Smart Meter Incremental Revenue Requirement Rate Rider	\$	1.44
Distribution Volumetric Rate	\$/kWh	0.0127
Low Voltage Service Rate	\$/kWh	0.0014
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery – effective until April 30, 2014	\$/kWh	0.0004
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2014	\$/kWh	(0.0021)
Rate Rider for Global Adjustment Sub-Account Disposition – effective until April 30, 2014		
Applicable only for Non-RPP Customers	\$/kWh	0.0014
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0060
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0048

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date September 1, 2012

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EB-2012-0094

GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION

This classification applies to a non residential account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	20.24
Smart Meter Disposition Rate Rider – effective until April 30, 2013	\$	9.73
Smart Meter Incremental Revenue Requirement Rate Rider	\$	4.20
Distribution Volumetric Rate	\$/kWh	0.0167
Low Voltage Service Rate	\$/kWh	0.0013
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2014	\$/kWh	(0.0021)
Rate Rider for Global Adjustment Sub-Account Disposition – effective until April 30, 2014		
Applicable only for Non-RPP Customers	\$/kWh	0.0014
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0056
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0043

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date September 1, 2012

**This schedule supersedes and replaces all previously
approved schedules of Rates, Charges and Loss Factors**

EB-2012-0094

GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	244.10
Smart Meter Disposition Rate Rider – effective until April 30, 2013	\$	48.98
Smart Meter Incremental Revenue Requirement Rate Rider	\$	14.30
Distribution Volumetric Rate	\$/kW	4.5228
Low Voltage Service Rate	\$/kW	0.4778
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery – effective until April 30, 2014	\$/kW	0.0284
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2014	\$/kW	(0.7109)
Rate Rider for Global Adjustment Sub-Account Disposition – effective until April 30, 2014		
Applicable only for Non-RPP Customers	\$/kW	0.4834
Retail Transmission Rate – Network Service Rate	\$/kW	2.2389
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.7009

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date September 1, 2012

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EB-2012-0094

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per customer)	\$	39.82
Distribution Volumetric Rate	\$/kWh	0.0104
Low Voltage Service Rate	\$/kWh	0.0013
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2014	\$/kWh	(0.0021)
Rate Rider for Global Adjustment Sub-Account Disposition – effective until April 30, 2014		
Applicable only for Non-RPP Customers	\$/kWh	0.0014
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0056
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0043

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date September 1, 2012

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EB-2012-0094

STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	\$	1.59
Distribution Volumetric Rate	\$/kW	6.4834
Low Voltage Service Rate	\$/kW	0.3694
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2014	\$/kW	(0.7349)
Retail Transmission Rate – Network Service Rate	\$/kW	1.6886
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3149

MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0011
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date September 1, 2012

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EB-2012-0094

microFIT GENERATOR SERVICE CLASSIFICATION

This classification applies to an electricity generation facility contracted under the Ontario Power Authority's microFIT program and connected to the distributor's distribution system. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	5.25
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Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date September 1, 2012

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EB-2012-0094

ALLOWANCES

Transformer Allowance for Ownership - per kW of billing demand/month	\$/kW	(0.60)
Primary Metering Allowance for transformer losses – applied to measured demand and energy	%	(1.00)

SPECIFIC SERVICE CHARGES

APPLICATION

The application of these rates and charges shall be in accordance with the Licence of the Distributor and any Code or Order of the Board, and amendments thereto as approved by the Board, which may be applicable to the administration of this schedule.

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Customer Administration		
Arrears Certificate	\$	15.00
Statement of Account	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Request for other billing information	\$	15.00
Income tax letter	\$	15.00
Account history	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	25.00
Returned cheques charge (plus bank charges)	\$	15.00
Legal letter charge	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	15.00
Special meter reads	\$	20.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	30.00
Non-Payment of Account		
Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge – no disconnection	\$	20.00
Collection of account charge – no disconnection – after regular hours	\$	50.00
Disconnect/Reconnect Charge - At Meter during Regular Hours	\$	25.00
Disconnect/Reconnect Charge - At Meter after Regular Hours	\$	50.00
Disconnect/Reconnect at pole – during regular hours	\$	185.00
Disconnect/Reconnect at pole – after regular hours	\$	415.00
Install/Remove load control device – during regular hours	\$	25.00
Install/Remove load control device – after regular hours	\$	50.00
Service call – customer owned equipment	\$	30.00
Service call – after regular hours	\$	165.00
Temporary service installation and removal – overhead – no transformer	\$	500.00
Temporary service installation and removal – underground – no transformer	\$	300.00
Temporary service installation and removal – overhead – with transformer	\$	1,000.00
Specific charge for access to power poles \$/pole/year	\$	22.35

Cooperative Hydro Embrun Inc.

TARIFF OF RATES AND CHARGES

Effective and Implementation Date September 1, 2012

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EB-2012-0094

RETAIL SERVICE CHARGES (if applicable)

APPLICATION

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Retail Service Charges refer to services provided by a distributor to retailers or customers related to the supply of competitive electricity

One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	100.00
Monthly Fixed Charge, per retailer	\$	20.00
Monthly Variable Charge, per customer, per retailer	\$/cust.	0.50
Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.30
Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.30)
Service Transaction Requests (STR)		
Request fee, per request, applied to the requesting party	\$	0.25
Processing fee, per request, applied to the requesting party	\$	0.50
Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
Up to twice a year		no charge
More than twice a year, per request (plus incremental delivery costs)	\$	2.00

LOSS FACTORS

If the distributor is not capable of prorating changed loss factors jointly with distribution rates, the revised loss factors will be implemented upon the first subsequent billing for each billing cycle.

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0579
Total Loss Factor – Secondary Metered Customer > 5,000 kW	N/A
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0473
Total Loss Factor – Primary Metered Customer > 5,000 kW	N/A



File Number:EB-2012-0094

Tab: 1
Schedule: 2

Date Filed:August 15, 2012

Attachment 2 of 2

Bill Impacts

Bill Impacts

Customer Class: **Residential**

Consumption **800** kWh ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after 4/1/2020)

	Charge Unit	Current Board-Approved			Proposed			Impact	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 13.6300	1	\$ 13.63	\$ 13.6300	1	\$ 13.63	\$ -	0.00%
Smart Meter Rate Adder			1	\$ -	\$ -	1	\$ -	\$ -	
Smart Meter Disposition Rider	Monthly		1	\$ -	-\$ 0.9600	1	-\$ 0.96	-\$ 0.96	
SMIRR	Monthly		1	\$ -	\$ 1.4400	1	\$ 1.44	\$ 1.44	
			1	\$ -	\$ -	1	\$ -	\$ -	
			1	\$ -	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0127	800	\$ 10.16	\$ 0.0127	800	\$ 10.16	\$ -	0.00%
Smart Meter Disposition Rider			800	\$ -		800	\$ -	\$ -	
LRAM & SSM Rate Rider	per kWh	\$ 0.0004	800	\$ 0.32	\$ 0.0004	800	\$ 0.32	\$ -	0.00%
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
Sub-Total A				\$ 24.11			\$ 24.59	\$ 0.48	1.99%
Deferral/Variance Account	per kWh	-\$ 0.0021	800	-\$ 1.68	-\$ 0.0021	800	-\$ 1.68	\$ -	0.00%
Disposition Rate Rider (2012)			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
Low Voltage Service Charge		\$ 0.0014	800	\$ 1.12	\$ 0.0014	800	\$ 1.12	\$ -	0.00%
Smart Meter Entity Charge						800	\$ -	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)				\$ 23.55			\$ 24.03	\$ 0.48	2.04%
RTSR - Network	per kWh	\$ 0.0060	808	\$ 4.85	\$ 0.0060	808	\$ 4.85	\$ -	0.00%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0048	808	\$ 3.88	\$ 0.0048	808	\$ 3.88	\$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)				\$ 32.28			\$ 32.76	\$ 0.48	1.49%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	808	\$ 4.20	\$ 0.0052	808	\$ 4.20	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0011	808	\$ 0.89	\$ 0.0011	808	\$ 0.89	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	808	\$ 5.66	\$ 0.0070	808	\$ 5.66	\$ -	0.00%
Energy - RPP - Tier 1		\$ 0.0750	600	\$ 45.00	\$ 0.0750	600	\$ 45.00	\$ -	0.00%
Energy - RPP - Tier 2		\$ 0.0880	208	\$ 18.34	\$ 0.0880	208	\$ 18.34	\$ -	0.00%
TOU - Off Peak		\$ 0.0650	517	\$ 33.63	\$ 0.0650	517	\$ 33.63	\$ -	0.00%
TOU - Mid Peak		\$ 0.1000	146	\$ 14.55	\$ 0.1000	146	\$ 14.55	\$ -	0.00%
TOU - On Peak		\$ 0.1170	146	\$ 17.03	\$ 0.1170	146	\$ 17.03	\$ -	0.00%
Total Bill on RPP (before Taxes)				\$ 106.63			\$ 107.11	\$ 0.48	0.45%
HST		13%		\$ 13.86		13%	\$ 13.92	\$ 0.06	0.45%
Total Bill (including HST)				\$ 120.49			\$ 121.03	\$ 0.54	0.45%
Ontario Clean Energy Benefit ¹				-\$ 12.05			-\$ 12.10	-\$ 0.05	0.41%
Total Bill on RPP (including OCEB)				\$ 108.44			\$ 108.93	\$ 0.49	0.45%
Total Bill on TOU (before Taxes)				\$ 108.49			\$ 108.97	\$ 0.48	0.44%
HST		13%		\$ 14.10		13%	\$ 14.17	\$ 0.06	0.44%
Total Bill (including HST)				\$ 122.60			\$ 123.14	\$ 0.54	0.44%
Ontario Clean Energy Benefit ¹				-\$ 12.26			-\$ 12.31	-\$ 0.05	0.41%
Total Bill on TOU (including OCEB)				\$ 110.34			\$ 110.83	\$ 0.49	0.45%

Loss Factor (%)

1.06%

1.06%

Bill Impacts

Customer Class: General Service Less Than 50 kW

Consumption **2000** kWh ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after 10/1/00)

		Current Board-Approved			Proposed			Impact		
	Charge Unit	Rate (\$)	Volume	Charge (\$)		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 20.2400	1	\$ 20.24		\$ 20.2400	1	\$ 20.24	\$ -	0.00%
Smart Meter Rate Adder			1	\$ -	1		\$ -	\$ -		
Smart Meter Disposition Rider			1	\$ -	1		\$ 9.73	\$ 9.73		
SMIRR			1	\$ -	1		\$ 4.20	\$ 4.20		
			1	\$ -	1		\$ -	\$ -		
			1	\$ -	1		\$ -	\$ -		
Distribution Volumetric Rate	per kWh	\$ 0.0167	2000	\$ 33.40		\$ 0.0167	2000	\$ 33.40	\$ -	0.00%
Smart Meter Disposition Rider			2000	\$ -	2000		\$ -	\$ -		
LRAM & SSM Rate Rider			2000	\$ -	2000		\$ -	\$ -		
			2000	\$ -	2000		\$ -	\$ -		
			2000	\$ -	2000		\$ -	\$ -		
			2000	\$ -	2000		\$ -	\$ -		
			2000	\$ -	2000		\$ -	\$ -		
			2000	\$ -	2000		\$ -	\$ -		
			2000	\$ -	2000		\$ -	\$ -		
			2000	\$ -	2000		\$ -	\$ -		
Sub-Total A				\$ 53.64			\$ 67.57	\$ 13.93	25.97%	
Deferral/Variance Account Disposition Rate Rider	per kWh	-\$ 0.0021	2000	-\$ 4.20		-\$ 0.0021	2000	-\$ 4.20	\$ -	0.00%
			2000	\$ -	2000		\$ -	\$ -		
			2000	\$ -	2000		\$ -	\$ -		
			2000	\$ -	2000		\$ -	\$ -		
Low Voltage Service Charge	per kWh	\$ 0.0013	2000	\$ 2.60		\$ 0.0013	2000	\$ 2.60	\$ -	0.00%
Smart Meter Entity Charge							2000	\$ -	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)				\$ 52.04			\$ 65.97	\$ 13.93	26.77%	
RTSR - Network	per kWh	\$ 0.0056	2021	\$ 11.32		\$ 0.0056	2021	\$ 11.32	\$ -	0.00%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0043	2021	\$ 8.69		\$ 0.0043	2021	\$ 8.69	\$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)				\$ 72.05			\$ 85.98	\$ 13.93	19.33%	
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	2021	\$ 10.51		\$ 0.0052	2021	\$ 10.51	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0011	2021	\$ 2.22		\$ 0.0011	2021	\$ 2.22	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25		\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	2021	\$ 14.15		\$ 0.0070	2021	\$ 14.15	\$ -	0.00%
Energy - RPP - Tier 1		\$ 0.0750	600	\$ 45.00		\$ 0.0750	600	\$ 45.00	\$ -	0.00%
Energy - RPP - Tier 2		\$ 0.0880	1421	\$ 125.06		\$ 0.0880	1421	\$ 125.06	\$ -	0.00%
TOU - Off Peak		\$ 0.0650	1294	\$ 84.08		\$ 0.0650	1294	\$ 84.08	\$ -	0.00%
TOU - Mid Peak		\$ 0.1000	364	\$ 36.38		\$ 0.1000	364	\$ 36.38	\$ -	0.00%
TOU - On Peak		\$ 0.1170	364	\$ 42.57		\$ 0.1170	364	\$ 42.57	\$ -	0.00%
Total Bill on RPP (before Taxes)				\$ 269.24			\$ 283.17	\$ 13.93	5.17%	
HST		13%		\$ 35.00		13%	\$ 36.81	\$ 1.81	5.17%	
Total Bill (including HST)				\$ 304.24			\$ 319.99	\$ 15.74	5.17%	
Ontario Clean Energy Benefit ¹				-\$ 30.42			-\$ 32.00	-\$ 1.58	5.19%	
Total Bill on RPP (including OCEB)				\$ 273.82			\$ 287.99	\$ 14.16	5.17%	
Total Bill on TOU (before Taxes)				\$ 262.21			\$ 276.14	\$ 13.93	5.31%	
HST		13%		\$ 34.09		13%	\$ 35.90	\$ 1.81	5.31%	
Total Bill (including HST)				\$ 296.29			\$ 312.04	\$ 15.74	5.31%	
Ontario Clean Energy Benefit ¹				-\$ 29.63			-\$ 31.20	-\$ 1.57	5.30%	
Total Bill on TOU (including OCEB)				\$ 266.66			\$ 280.84	\$ 14.17	5.31%	

Loss Factor (%)	1.06%	1.06%
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File Number: EB-2012-0094

Date Filed: August 15, 2012

Tab 2 of 2

Appendices



File Number: EB-2012-0094

Tab: 2
Schedule: 1

Date Filed: August 15, 2012

Appendix 1 of 1

Smart Meter Disposition Model



Ontario Energy Board

Smart Meter Model**Choose Your Utility:**
Application Contact Information

Name:

Title:

Phone Number:

Email Address:

We are applying for rates effective:

Last COS Re-based Year

Legend

DROP-DOWN MENU

INPUT FIELD

CALCULATION FIELD

Copyright

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results. The use of any models and spreadsheets does not automatically imply Board approval. The onus is on the distributor to prepare, document and support its application. Board-issued Excel models and spreadsheets are offered to assist parties in providing the necessary information so as to facilitate an expeditious review of an application. The onus remains on the applicant to ensure the accuracy of the data and the results.



Distributors must enter all incremental costs related to their smart meter program and all revenues recovered to date in the applicable tabs except for those costs (and associated revenues) for which the Board has approved on a final basis, i.e. capital costs have been included in rate base and OM&A costs in revenue requirement.

For 2012, distributors that have completed their deployments by the end of 2011 are not expected to enter any capital costs. However, for OM&A, regardless of whether a distributor has deployments in 2012, distributors should enter the forecasted OM&A for 2012 for all smart meters in service.

		2006	2007	2008	2009	2010	2011	2012 and later	Total
Smart Meter Capital Cost and Operational Expense Data		Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter Installation Plan									
Actual/Planned number of Smart Meters installed during the Calendar Year									
Residential		0	0	0	1,755	22	9	10	1796
General Service < 50 kW		0	0	0	152	3	3	4	162
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)		0	0	0	1907	25	12	14	1958
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed		0.00%	0.00%	0.00%	97.40%	98.67%	99.28%	100.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed		0	0	0	0	12	0	0	12
Other (please identify)		0	0	0	0	0	0	0	0
Total Number of Smart Meters installed or planned to be installed		0	0	0	1907	37	12	14	1970
1 Capital Costs									
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)									
Asset Type									
Asset type must be selected to enable calculations									
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
		0	0	0	217,493	14,803	1,754	2,141	\$ 236,191
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter				33,904	2,640			\$ 36,544
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)									\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)									\$ -
Total Advanced Metering Communications Devices (AMCD)		\$ -	\$ -	\$ -	\$ 251,397	\$ 17,443	\$ 1,754	\$ 2,141	\$ 272,735
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)									
Asset Type									
1.2.1 Collectors	Smart Meter	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
					6,889	0	1,883		\$ 8,772
1.2.2 Repeaters (may include radio licence, etc.)									\$ -
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)	Tools & Equipment				2,542	1,663			\$ 4,205
Total Advanced Metering Regional Collector (AMRC) (Includes LAN)		\$ -	\$ -	\$ -	\$ 9,430	\$ 1,663	\$ 1,883	\$ -	\$ 12,977

1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

1.3.1 Computer Hardware

1.3.2 Computer Software

1.3.3 Computer Software Licences & Installation (includes hardware and software)
(may include AS/400 disk space, backup and recovery computer, UPS, etc.)

Total Advanced Metering Control Computer (AMCC)

Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast		
								\$	-
								\$	-
								\$	-
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-

1.4 WIDE AREA NETWORK (WAN)

1.4.1 Activation Fees

Total Wide Area Network (WAN)

Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast		
								\$	-
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-

1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY

1.5.1 Customer Equipment (including repair of damaged equipment)

1.5.2 AMI Interface to CIS

1.5.3 Professional Fees

1.5.4 Integration

1.5.5 Program Management

1.5.6 Other AMI Capital

Total Other AMI Capital Costs Related to Minimum Functionality

Total Capital Costs Related to Minimum Functionality

Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast		
								\$	-
								\$	-
								\$	-
Smart Meter				28,705				\$	28,705
								\$	-
								\$	-
	\$ -	\$ -	\$ -	28,705	\$ -	\$ -	\$ -	\$	28,705
	\$ -	\$ -	\$ -	289,532	\$ 19,106	\$ 3,638	\$ 2,141	\$	314,417

1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY

(Please provide a descriptive title and identify nature of beyond minimum functionality costs)

1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06

1.6.2 Costs for deployment of smart meters to customers other than residential and small general service

1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc.

Total Capital Costs Beyond Minimum Functionality

Total Smart Meter Capital Costs

Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast		
Computer Software								\$	-
Applications Software								\$	-
								\$	-
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
	\$ -	\$ -	\$ -	289,532	\$ 19,106	\$ 3,638	\$ 2,141	\$	314,417

2 OM&A Expenses

2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)

2.1.1 Maintenance (may include meter reverification costs, etc.)

Total Incremental AMCD OM&A Costs

2.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)

2.2.1 Maintenance

Total Incremental AMRC OM&A Costs

2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

2.3.1 Hardware Maintenance *(may include server support, etc.)*

2.3.2 Software Maintenance *(may include maintenance support, etc.)*

Total Incremental AMCC OM&A Costs

2.4 WIDE AREA NETWORK (WAN)

2.4.1 WAN Maintenance

Total Incremental AMRC OM&A Costs

2.5 OTHER AMLOM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.5.1 Business Process Redesign

2.5.2 Customer Communication (may include project communication, etc.)

2.5.3 Program Management

2.5.4 Change Management (may include training, etc.)

2.5.5 Administration Costs

2.5.6 Other AML Expenses

(please specify)

Total Other AMI OM&A Costs Related to Minimum Functionality

TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY

2.6 UM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY

2.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06

2.6.2 Costs for deployment of smart meters to customers other than residential and small general service

2.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc.

Total OM&A Costs Beyond Minimum Functionality

Total Smart Meter OM&A Costs

[illegible]

3 Aggregate Smart Meter Costs by Category

[illegible]



Ontario Energy Board

Smart Meter Model

Cooperative Hydro Embrun Inc.

	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure¹							
Deemed Short-term Debt Capitalization			0.0%	0.0%	4.0%	4.0%	4.0%
Deemed Long-term Debt Capitalization	50.0%	50.0%	53.3%	56.7%	56.0%	56.0%	56.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%
Preferred Shares							
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate			0.00%	0.00%	2.07%	2.07%	2.07%
Long-term Debt Rate (actual/embedded/deemed) ²	6.25%	6.25%	6.25%	6.25%	5.87%	5.87%	5.87%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.85%	9.85%	9.85%
Return on Preferred Shares							
WACC	7.63%	7.63%	7.53%	7.44%	7.31%	7.31%	7.31%
Working Capital Allowance							
Working Capital Allowance Rate	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
<i>(% of the sum of Cost of Power + controllable expenses)</i>							
Taxes/PILs							
Aggregate Corporate Income Tax Rate	18.62%	18.62%	16.50%	16.50%	16.00%	15.50%	15.50%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%

Depreciation Rates

(expressed as expected useful life in years)

Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	2	2	2	2	2	2	2
- rate (%)	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%
Computer Software - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%

CCA Rates

Smart Meters - CCA Class	1	47	47	47	47	47	47
Smart Meters - CCA Rate	4%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	52	52	50	50
Computer Equipment - CCA Rate	45%	55%	55%	100%	100%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%

Assumptions

- ¹ Planned smart meter installations occur evenly throughout the year.
- ² Fiscal calendar year (January 1 to December 31) used.
- ³ Amortization is done on a straight line basis and has the "half-year" rule applied.



Ontario Energy Board

Smart Meter Model



Cooperative Hydro Embrun Inc.

	2006	2007	2008	2009	2010	2011
Net Fixed Assets - Smart Meters						
Gross Book Value						
Opening Balance		\$ -	\$ -	\$ -	\$ 286,991	\$ 304,434
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 286,991	\$ 17,443	\$ 3,638
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	\$ 286,991	\$ 304,434	\$ 308,071
Accumulated Depreciation						
Opening Balance		\$ -	\$ -	\$ -	\$ 9,566	\$ 29,280
Amortization expense during year	\$ -	\$ -	\$ -	\$ 9,566	\$ 19,714	\$ 20,417
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	\$ 9,566	\$ 29,280	\$ 49,697
Net Book Value						
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 277,424	\$ 275,153
Closing Balance	\$ -	\$ -	\$ -	\$ 277,424	\$ 275,153	\$ 258,374
Average Net Book Value	\$ -	\$ -	\$ -	\$ 138,712	\$ 276,289	\$ 266,764
Net Fixed Assets - Computer Hardware						
Gross Book Value						
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation						
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value						
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Computer Software (including Applications Software)						
Gross Book Value						
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation						
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value						
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Net Fixed Assets - Tools and Equipment

Gross Book Value						
Opening Balance		\$ -	\$ -	\$ -	\$ 2,542	\$ 4,205
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 2,542	\$ 1,663	\$ -
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	\$ 2,542	\$ 4,205	\$ 4,205
Accumulated Depreciation						
Opening Balance	\$ -	\$ -	\$ -	\$ -	-\$ 127	-\$ 464
Amortization expense during year	\$ -	\$ -	\$ -	-\$ 127	-\$ 337	-\$ 420
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	-\$ 127	-\$ 464	-\$ 885
Net Book Value						
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 2,415	\$ 3,740
Closing Balance	\$ -	\$ -	\$ -	\$ 2,415	\$ 3,740	\$ 3,320
Average Net Book Value	\$ -	\$ -	\$ -	\$ 1,207	\$ 3,077	\$ 3,530

Net Fixed Assets - Other Equipment

Gross Book Value						
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation						
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value						
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



2012 and later

\$	308,071
\$	2,141
\$	310,212

-\$	49,697
-\$	20,609
-\$	70,307

\$	258,374
\$	239,905
\$	249,140

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	4,205
\$	-
\$	4,205

\$	885
\$	420
\$	1,305

\$	3,320
\$	2,899
\$	3,110

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-



Ontario Energy Board

Smart Meter Model

Cooperative Hydro Embrun Inc.

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 138,712	\$ 276,289	\$ 266,764	\$ 249,140
Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ 1,207	\$ 3,077	\$ 3,530	\$ 3,110
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ -	\$ 139,919	\$ 279,366	\$ 270,294	\$ 252,249
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ -	\$ 139,919	\$ 279,366	\$ 270,294	\$ 252,249
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 11,175	\$ 10,812	\$ 10,090
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 79,334	\$ 156,445	\$ 151,364	\$ 141,260
Equity	\$ -	\$ -	\$ -	\$ 60,585	\$ 111,746	\$ 108,117	\$ 100,900
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ -	\$ 139,919	\$ 279,366	\$ 270,294	\$ 252,249
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 231	\$ 224	\$ 209
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 4,958	\$ 9,183	\$ 8,885	\$ 8,292
Equity	\$ -	\$ -	\$ -	\$ 5,453	\$ 11,007	\$ 10,650	\$ 9,939
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ -	\$ 10,411	\$ 20,422	\$ 19,758	\$ 18,439
Operating Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 9,566	\$ 19,714	\$ 20,417	\$ 20,609
Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ 127	\$ 337	\$ 420	\$ 420
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ -	\$ 9,693	\$ 20,051	\$ 20,837	\$ 21,030
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ -	\$ 20,104	\$ 40,473	\$ 40,596	\$ 39,469
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization Expense	\$ -	\$ -	\$ -	\$ 9,693	\$ 20,051	\$ 20,837	\$ 21,030
Interest Expense	\$ -	\$ -	\$ -	\$ 4,958	\$ 9,415	\$ 9,109	\$ 8,501
Net Income for Taxes/PILs	\$ -	\$ -	\$ -	\$ 5,453	\$ 11,007	\$ 10,650	\$ 9,939
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ -	\$ 1,303.93	\$ 1,675.09	\$ 1,661.67	\$ 1,867.96
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ -	\$ 21,408	\$ 42,148	\$ 42,257	\$ 41,337



Ontario Energy Board

Smart Meter Model

Cooperative Hydro Embrun Inc.

For PILs Calculation

UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 275,510.95	\$ 270,215.55	\$ 252,090.39
Capital Additions	\$ -	\$ -	\$ -	\$ 286,990.57	\$ 17,443.21	\$ 3,637.59	\$ 2,140.79
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 286,990.57	\$ 292,954.15	\$ 273,853.14	\$ 254,231.19
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 143,495.28	\$ 8,721.60	\$ 1,818.80	\$ 1,070.40
Reduced UCC	\$ -	\$ -	\$ -	\$ 143,495.28	\$ 284,232.55	\$ 272,034.35	\$ 253,160.79
CCA Rate Class	1	47	47	47	47	47	47
CCA Rate	4%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 11,479.62	\$ 22,738.60	\$ 21,762.75	\$ 20,252.86
Closing UCC	\$ -	\$ -	\$ -	\$ 275,510.95	\$ 270,215.55	\$ 252,090.39	\$ 233,978.32

UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	45	50	50	52	52	50	50
CCA Rate	45%	55%	55%	100%	100%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 2,287.48	\$ 3,326.75	\$ 2,661.40
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ 2,541.64	\$ 1,663.08	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 2,541.64	\$ 3,950.56	\$ 3,326.75	\$ 2,661.40
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 1,270.82	\$ 831.54	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 1,270.82	\$ 3,119.02	\$ 3,326.75	\$ 2,661.40
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ 254.16	\$ 623.80	\$ 665.35	\$ 532.28
Closing UCC	\$ -	\$ -	\$ -	\$ 2,287.48	\$ 3,326.75	\$ 2,661.40	\$ 2,129.12



PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
INCOME TAX							
Net Income	\$ -	\$ -	\$ -	\$ 5,452.66	\$ 11,007.03	\$ 10,649.57	\$ 9,938.62
Amortization	\$ -	\$ -	\$ -	\$ 9,693.43	\$ 20,051.46	\$ 20,837.31	\$ 21,029.92
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 11,479.62	\$ 22,738.60	\$ 21,762.75	\$ 20,252.86
CCA - Computers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA - Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ 254.16	\$ 623.80	\$ 665.35	\$ 532.28
Change in taxable income	\$ -	\$ -	\$ -	\$ 3,412.31	\$ 7,696.08	\$ 9,058.79	\$ 10,183.40
Tax Rate (from Sheet 3)	18.62%	18.62%	16.50%	16.50%	16.00%	15.50%	15.50%
Income Taxes Payable	\$ -	\$ -	\$ -	\$ 563.03	\$ 1,231.37	\$ 1,404.11	\$ 1,578.43
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ -	\$ 277,424.22	\$ 275,153.28	\$ 258,374.03	\$ 239,905.37
Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Including Application Software)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ 2,414.56	\$ 3,740.32	\$ 3,319.85	\$ 2,899.38
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ -	\$ 279,838.78	\$ 278,893.60	\$ 261,693.88	\$ 242,804.75
Less: Exemption							
Deemed Taxable Capital	\$ -	\$ -	\$ -	\$ 279,838.78	\$ 278,893.60	\$ 261,693.88	\$ 242,804.75
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ -	\$ 629.64	\$ 209.17	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 563.03	\$ 1,231.37	\$ 1,404.11	\$ 1,578.43
Change in OCT	\$ -	\$ -	\$ -	\$ 629.64	\$ 209.17	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 1,192.67	\$ 1,440.54	\$ 1,404.11	\$ 1,578.43
Gross Up PILs							
Tax Rate	18.62%	18.62%	16.50%	16.50%	16.00%	15.50%	15.50%
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 674.29	\$ 1,465.92	\$ 1,661.67	\$ 1,867.96
Change in OCT	\$ -	\$ -	\$ -	\$ 629.64	\$ 209.17	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 1,303.93	\$ 1,675.09	\$ 1,661.67	\$ 1,867.96





Ontario Energy Board

Smart Meter Model



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -	
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -	
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -	
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -	
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -	
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		4.14%	\$ -	\$ -	
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -	\$ 226.56	4.59%	\$ -	\$ 226.56	
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ 226.56	\$ 500.76	4.59%	\$ 0.87	\$ 728.19	
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ 727.32	\$ 455.97	4.59%	\$ 2.78	\$ 1,186.07	
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ 1,183.29	\$ 505.02	4.59%	\$ 4.53	\$ 1,692.84	
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ 1,688.31	\$ 468.36	4.59%	\$ 6.46	\$ 2,163.13	
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ 2,156.67	\$ 502.52	4.59%	\$ 8.25	\$ 2,667.44	\$ 2,682.08
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ 2,659.19	\$ 722.24	4.59%	\$ 10.17	\$ 3,391.60	
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ 3,381.43	\$ 283.21	4.59%	\$ 12.93	\$ 3,677.57	
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ 3,664.64	\$ 466.05	4.59%	\$ 14.02	\$ 4,144.71	
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ 4,130.69	\$ 506.86	4.59%	\$ 15.80	\$ 4,653.35	
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ 4,637.55	\$ 475.79	4.59%	\$ 17.74	\$ 5,131.08	
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ 5,113.34	\$ 525.13	4.59%	\$ 19.56	\$ 5,658.03	
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ 5,638.47	\$ 476.77	4.59%	\$ 21.57	\$ 6,136.81	
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ 6,115.24	\$ 504.31	4.59%	\$ 23.39	\$ 6,642.94	
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ 6,619.55	\$ 474.37	4.59%	\$ 25.32	\$ 7,119.24	
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ 7,093.92	\$ 513.57	5.14%	\$ 30.39	\$ 7,637.88	
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ 7,607.49	\$ 475.14	5.14%	\$ 32.59	\$ 8,115.22	
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ 8,082.63	\$ 529.00	5.14%	\$ 34.62	\$ 8,646.25	\$ 6,210.54
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ 8,611.63	\$ 763.61	5.14%	\$ 36.89	\$ 9,412.13	
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ 9,375.24	\$ 246.52	5.14%	\$ 40.16	\$ 9,661.92	
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ 9,621.76	\$ 483.84	5.14%	\$ 41.21	\$ 10,146.81	
2012 Q4		4.29%	Apr-08	2008	Q2	\$ 10,105.60	\$ 525.62	4.08%	\$ 34.36	\$ 10,665.58	
			May-08	2008	Q2	\$ 10,631.22	\$ 482.13	4.08%	\$ 36.15	\$ 11,149.50	
			Jun-08	2008	Q2	\$ 11,113.35	\$ 538.27	4.08%	\$ 37.79	\$ 11,689.41	
			Jul-08	2008	Q3	\$ 11,651.62	\$ 524.41	3.35%	\$ 32.53	\$ 12,208.56	
			Aug-08	2008	Q3	\$ 12,176.03	\$ 522.48	3.35%	\$ 33.99	\$ 12,732.50	
			Sep-08	2008	Q3	\$ 12,698.51	\$ 487.06	3.35%	\$ 35.45	\$ 13,221.02	
			Oct-08	2008	Q4	\$ 13,185.57	\$ 528.83	3.35%	\$ 36.81	\$ 13,751.21	
			Nov-08	2008	Q4	\$ 13,714.40	\$ 493.75	3.35%	\$ 38.29	\$ 14,246.44	
			Dec-08	2008	Q4	\$ 14,208.15	\$ 537.59	3.35%	\$ 39.66	\$ 14,785.40	\$ 6,577.40
			Jan-09	2009	Q1	\$ 14,745.74	\$ 496.65	2.45%	\$ 30.11	\$ 15,272.50	
			Feb-09	2009	Q1	\$ 15,242.39	\$ 542.53	2.45%	\$ 31.12	\$ 15,816.04	
			Mar-09	2009	Q1	\$ 15,784.92	\$ 499.50	2.45%	\$ 32.23	\$ 16,316.65	
			Apr-09	2009	Q2	\$ 16,284.42	\$ 547.71	1.00%	\$ 13.57	\$ 16,845.70	
			May-09	2009	Q2	\$ 16,832.13	\$ 501.35	1.00%	\$ 14.03	\$ 17,347.51	
			Jun-09	2009	Q2	\$ 17,333.48	\$ 1,323.28	1.00%	\$ 14.44	\$ 18,671.20	
			Jul-09	2009	Q3	\$ 18,656.76	\$ 1,820.15	0.55%	\$ 8.55	\$ 20,485.46	
			Aug-09	2009	Q3	\$ 20,476.91	\$ 2,010.23	0.55%	\$ 9.39	\$ 22,496.53	
			Sep-09	2009	Q3	\$ 22,487.14	\$ 1,831.63	0.55%	\$ 10.31	\$ 24,329.08	
			Oct-09	2009	Q4	\$ 24,318.77	\$ 2,013.82	0.55%	\$ 11.15	\$ 26,343.74	
			Nov-09	2009	Q4	\$ 26,332.59	\$ 1,842.93	0.55%	\$ 12.07	\$ 28,187.59	
			Dec-09	2009	Q4	\$ 28,175.52	\$ 2,023.66	0.55%	\$ 12.91	\$ 30,212.09	\$ 15,653.32
			Jan-10	2010	Q1	\$ 30,199.18	\$ 1,841.46	0.55%	\$ 13.84	\$ 32,054.48	
			Feb-10	2010	Q1	\$ 32,040.64	\$ 2,006.59	0.55%	\$ 14.69	\$ 34,061.92	
			Mar-10	2010	Q1	\$ 34,047.23	\$ 1,868.70	0.55%	\$ 15.60	\$ 35,931.53	
			Apr-10	2010	Q2	\$ 35,915.93	\$ 2,010.46	0.55%	\$ 16.46	\$ 37,942.85	
			May-10	2010	Q2	\$ 37,926.39	\$ 1,857.51	0.55%	\$ 17.38	\$ 39,801.28	
			Jun-10	2010	Q2	\$ 39,783.90	\$ 2,380.42	0.55%	\$ 18.23	\$ 42,182.55	
			Jul-10	2010	Q3	\$ 42,164.32	\$ 2,445.67	0.89%	\$ 31.27	\$ 44,641.26	
			Aug-10	2010	Q3	\$ 44,609.99	\$ 2,712.40	0.89%	\$ 33.09	\$ 47,355.48	
			Sep-10	2010	Q3	\$ 47,322.39	\$ 2,473.82	0.89%	\$ 35.10	\$ 49,831.31	
			Oct-10	2010	Q4	\$ 49,796.21	\$ 2,673.85	1.20%	\$ 49.80	\$ 52,519.86	
			Nov-10	2010	Q4	\$ 52,470.06	\$ 2,483.62	1.20%	\$ 52.47	\$ 55,006.15	
			Dec-10	2010	Q4	\$ 54,953.68	\$ 2,673.25	1.20%	\$ 54.95	\$ 57,681.88	\$ 27,780.63
			Jan-11	2011	Q1	\$ 57,626.93	\$ 3,701.26	1.47%	\$ 70.59	\$ 61,398.78	
			Feb-11	2011	Q1	\$ 61,328.19	\$ 2,581.79	1.47%	\$ 75.13	\$ 63,985.11	
			Mar-11	2011	Q1	\$ 63,909.98	\$ 2,587.95	1.47%	\$ 78.29	\$ 66,576.22	
			Apr-11	2011	Q2	\$ 66,497.93	\$ 2,587.47	1.47%	\$ 81.46	\$ 69,166.86	
			May-11	2011	Q2	\$ 69,085.40	\$ 2,580.69	1.47%	\$ 84.63	\$ 71,750.72	
			Jun-11	2011	Q2	\$ 71,666.09	\$ 2,592.32	1.47%	\$ 87.79	\$ 74,346.20	
			Jul-11	2011	Q3	\$ 74,258.41	\$ 2,590.42	1.47%	\$ 90.97	\$ 76,939.80	
			Aug-11	2011	Q3	\$ 76,848.83	\$ 2,585.95	1.47%	\$ 94.14	\$ 79,528.92	
			Sep-11	2011	Q3	\$ 79,434.78	\$ 2,613.45	1.47%	\$ 97.31	\$ 82,145.54	



Ontario Energy Board

Smart Meter Model

Cooperative Hydro Embrun Inc.

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

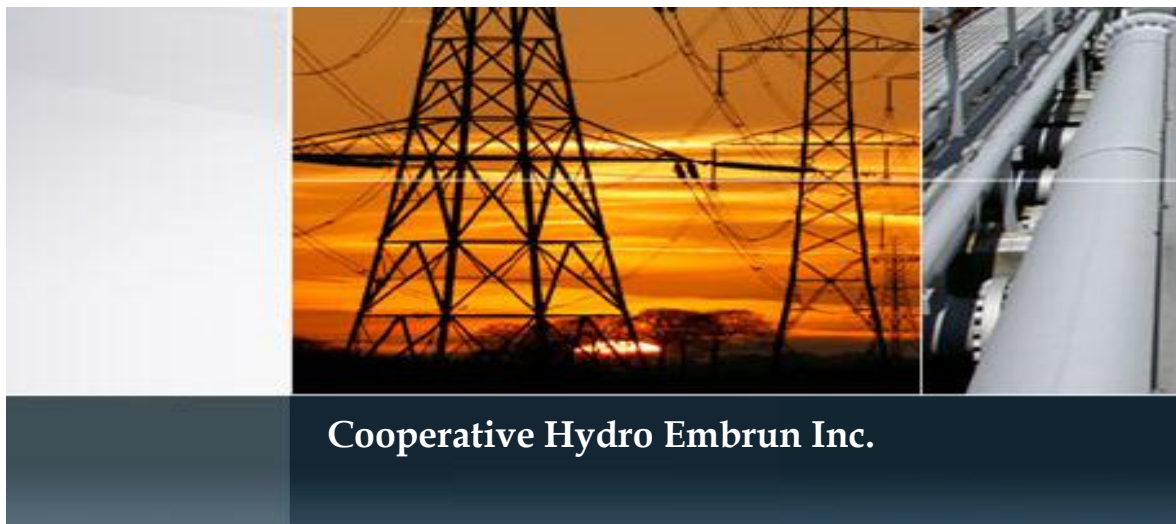
Interest Rates	Approved Deferral and Variance Accounts	CWIP				Opening Balance	Funding Adder	Interest		Closing Balance	Annual amounts
			Date	Year	Quarter	(Principal)	Revenues	Rate	Interest		
			Oct-11	2011	Q4	\$ 82,048.23	\$ 2,594.05	1.47%	\$ 100.51	\$ 84,742.79	
			Nov-11	2011	Q4	\$ 84,642.28	\$ 2,594.15	1.47%	\$ 103.69	\$ 87,340.12	
			Dec-11	2011	Q4	\$ 87,236.43	\$ 2,580.72	1.47%	\$ 106.86	\$ 89,924.01	\$ 33,261.59
			Jan-12	2012	Q1	\$ 89,817.15	\$ 2,600.00	1.47%	\$ 110.03	\$ 92,527.18	
			Feb-12	2012	Q1	\$ 92,417.15	\$ 2,600.00	1.47%	\$ 113.21	\$ 95,130.36	
			Mar-12	2012	Q1	\$ 95,017.15	\$ 2,600.00	1.47%	\$ 116.40	\$ 97,733.55	
			Apr-12	2012	Q2	\$ 97,617.15	\$ 2,600.00	1.47%	\$ 119.58	\$ 100,336.73	
			May-12	2012	Q2	\$ 100,217.15		1.47%	\$ 122.77	\$ 100,339.92	
			Jun-12	2012	Q2	\$ 100,217.15		1.47%	\$ 122.77	\$ 100,339.92	
			Jul-12	2012	Q3	\$ 100,217.15		1.47%	\$ 122.77	\$ 100,339.92	
			Aug-12	2012	Q3	\$ 100,217.15		1.47%	\$ 122.77	\$ 100,339.92	
			Sep-12	2012	Q3	\$ 100,217.15		0.00%	-	\$ 100,217.15	
			Oct-12	2012	Q4	\$ 100,217.15		0.00%	-	\$ 100,217.15	
			Nov-12	2012	Q4	\$ 100,217.15		0.00%	-	\$ 100,217.15	
			Dec-12	2012	Q4	\$ 100,217.15		0.00%	-	\$ 100,217.15	\$ 11,350.30
Total Funding Adder Revenues Collected							\$ 100,217.15		\$ 3,298.71	\$ 103,515.86	\$ 103,515.86

[illegible]



**Board Approved
Smart Meter Funding
Adder (from Tariff)**

[illegible]



This worksheet calculates the interest on OM&A and amortization/depr

Account 1556 - Su

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-

2011 Q4	1.47%	4.29%		Dec-07	2007	Q4	-
2012 Q1	1.47%	4.29%		Jan-08	2008	Q1	-
2012 Q2	1.47%	4.29%		Feb-08	2008	Q1	-
2012 Q3	1.47%	4.29%		Mar-08	2008	Q1	-
2012 Q4	0.00%	4.29%		Apr-08	2008	Q2	-
				May-08	2008	Q2	-
				Jun-08	2008	Q2	-
				Jul-08	2008	Q3	-
				Aug-08	2008	Q3	-
				Sep-08	2008	Q3	-
				Oct-08	2008	Q4	-
				Nov-08	2008	Q4	-
				Dec-08	2008	Q4	-
				Jan-09	2009	Q1	-
				Feb-09	2009	Q1	807.79
				Mar-09	2009	Q1	1,615.57
				Apr-09	2009	Q2	2,423.36
				May-09	2009	Q2	3,231.14
				Jun-09	2009	Q2	4,038.93
				Jul-09	2009	Q3	4,846.72
				Aug-09	2009	Q3	5,654.50
				Sep-09	2009	Q3	6,462.29
				Oct-09	2009	Q4	7,270.08
				Nov-09	2009	Q4	8,077.86
				Dec-09	2009	Q4	8,885.65
				Jan-10	2010	Q1	9,693.43
				Feb-10	2010	Q1	11,364.39
				Mar-10	2010	Q1	13,035.34
				Apr-10	2010	Q2	14,706.30
				May-10	2010	Q2	16,377.26
				Jun-10	2010	Q2	18,048.21
				Jul-10	2010	Q3	19,719.17
				Aug-10	2010	Q3	21,390.12
				Sep-10	2010	Q3	23,061.08
				Oct-10	2010	Q4	24,732.03
				Nov-10	2010	Q4	26,402.99
				Dec-10	2010	Q4	28,073.94
				Jan-11	2011	Q1	29,744.90
				Feb-11	2011	Q1	31,481.34
				Mar-11	2011	Q1	33,217.78
				Apr-11	2011	Q2	34,954.22
				May-11	2011	Q2	36,690.67
				Jun-11	2011	Q2	38,427.11
				Jul-11	2011	Q3	40,163.55
				Aug-11	2011	Q3	41,899.99
				Sep-11	2011	Q3	43,636.44
				Oct-11	2011	Q4	45,372.88
				Nov-11	2011	Q4	47,109.32
				Dec-11	2011	Q4	48,845.76

	Jan-12	2012	Q1	50,582.21
	Feb-12	2012	Q1	50,582.21
	Mar-12	2012	Q1	50,582.21
	Apr-12	2012	Q2	50,582.21
	May-12	2012	Q2	50,582.21
	Jun-12	2012	Q2	50,582.21
	Jul-12	2012	Q3	50,582.21
	Aug-12	2012	Q3	50,582.21
	Sep-12	2012	Q3	50,582.21
	Oct-12	2012	Q4	50,582.21
	Nov-12	2012	Q4	50,582.21
	Dec-12	2012	Q4	50,582.21



preciation expense, based on monthly data.

b-accounts Operating Expenses, Amortization Expenses, Carrying Charges

OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
		-	0.00%	-	-
		-	0.00%	-	-
		-	0.00%	-	-
		-	4.14%	-	-
		-	4.14%	-	-
		-	4.14%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	4.59%	-	-
		-	5.14%	-	-
		-	5.14%	-	-

50,582.21	1.47%	61.96	836.46
50,582.21	1.47%	61.96	898.42
50,582.21	1.47%	61.96	960.39
50,582.21	1.47%	61.96	1,022.35
50,582.21	1.47%	61.96	1,084.31
50,582.21	1.47%	61.96	1,146.27
50,582.21	1.47%	61.96	1,208.24
50,582.21	1.47%	61.96	1,270.20
50,582.21	0.00%	-	1,270.20
50,582.21	0.00%	-	1,270.20
50,582.21	0.00%	-	1,270.20
50,582.21	0.00%	-	1,270.20

\$

-

\$

50,582.21

\$

50,582.21





This worksheet calculates the interest on OM&A and amortization/depreciation expen

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense
2006	\$ -	\$ -	\$ -
2007	\$ -	\$ -	\$ -
2008	\$ -	\$ -	\$ -
2009	\$ -	\$ 9,693.43	\$ 9,693.43
2010	\$ -	\$ 20,051.46	\$ 29,744.90
2011	\$ -	\$ 20,837.31	\$ 50,582.21
2012	\$ -	\$ 21,029.92	\$ 71,612.13

Cumulative Interest to 2011

Cumulative Interest to 2012



use, in the absence of monthly data.

Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
\$ -	4.37%	\$ -
\$ -	4.73%	\$ -
\$ -	3.98%	\$ -
\$ 4,846.72	1.14%	\$ 55.13
\$ 19,719.17	0.80%	\$ 157.26
\$ 40,163.55	1.47%	\$ 590.40
\$ 61,097.17	1.47%	\$ 898.13
		\$ 802.80
		\$ 1,700.92





This worksheet calculates the Smart Meter Disposition Rider and the Smart Meter Incremental Revenue Requirement Rate Rider, if applicable. This worksheet also calculates any new Smart Meter Funding Adder that a distributor may wish to request. However, please note that in many 2011 IRM decisions, the Board noted that current funding adders will cease on April 30, 2011 and that the Board's expectation is that distributors will file for a final review of prudence at the earliest opportunity. The Board also noted that the SMFA is a tool designed to provide advance funding and to mitigate the anticipated rate impact of smart meter costs when recovery of those costs is approved by the Board. The Board observed that the SMFA was not intended to be compensatory (return on and of capital) on a cumulative basis over the term the SMFA was in effect. The SMFA was initially designed to fund future investment, and not fully fund prior capital investment. Distributors that seek a new SMFA should provide evidence to support its proposal. This would include documentation of where the distributor is with respect to its smart meter deployment program, and reasons as to why the distributor's circumstances are such that continuation of the SMFA is warranted. Press the "UPDATE WORKSHEET" button after choosing the applicable adders/riders.

Check if applicable

- ☐ Smart Meter Funding Adder (SMFA)
- ☒ Smart Meter Disposition Rider (SMDR)
- ☒ Smart Meter Incremental Revenue Requirement Rate Rider (SMIRR)

The SMDR is calculated based on costs to December 31, 2011

The SMIRR is calculated based on the incremental revenue requirement associated with the recovery of capital related costs to December 31, 2012 and associated OM&A.

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ -	\$ 21,408.41	\$ 42,148.22	\$ 42,257.45	\$ 41,337.31	\$ 147,151.40
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ -	\$ 31.91	\$ 164.95	\$ 577.64	\$ 495.71	\$ 1,270.20
<input checked="" type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)	\$ -	\$ -	\$ -	\$ 31.91	\$ 164.95	\$ 577.64	\$ 495.71	\$ 1,270.20
<input type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)								\$ -
SMFA Revenues (from Sheet 8)	\$ 2,659.19	\$ 5,952.44	\$ 6,134.11	\$ 15,453.44	\$ 27,427.75	\$ 32,190.22	\$ 10,400.00	\$ 100,217.15
SMFA Interest (from Sheet 8)	\$ 22.89	\$ 258.10	\$ 443.29	\$ 199.88	\$ 352.88	\$ 1,071.37	\$ 950.30	\$ 3,298.71
Net Deferred Revenue Requirement	-\$ 2,682.08	-\$ 6,210.54	-\$ 6,577.40	\$ 5,787.00	\$ 14,532.54	\$ 9,573.50	\$ 30,482.71	\$ 44,905.74
Number of Metered Customers (average for 2012 test year)							1958	

Calculation of Smart Meter Disposition Rider (per metered customer per month)

Years for collection or refunding	1	
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 107,084.29	
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 103,515.86	
Net Deferred Revenue Requirement	\$ 3,568.43	
SMDR May 1, 2012 to April 30, 2013	\$ 0.15	Match
Check: Forecasted SMDR Revenues	\$ 3,524.40	

Calculation of Smart Meter Incremental Revenue Requirement Rate Rider (per metered customer per month)

Incremental Revenue Requirement for 2012	\$ 41,337.31	
SMIRR	\$ 1.76	Match

Check: Forecasted SMIRR Revenues

\$ 41,352.96



Cooperative Hydro Embrun Inc.

	2009	2010	2011		Total 2009 to 2011	Explanation Allocator	ID and Factors	Total	Residential	General Service Less than 50 kW
Revenue Requirement for the Historical Years	\$21,440.32	\$42,313.17	\$43,330.80		\$107,084.29					
Total Return on Capital	\$10,411.05	\$20,421.67	\$19,758.47		\$50,591.19	Smart Meter - Capital	CWMC	100.00%	75.29%	19.73%
					Allocated per Class			\$50,591.19	\$38,089.94	\$9,981.93
Amortization	\$9,725.34	\$20,216.41	\$21,910.66		\$51,852.41	Smart Meter - Capital	CWMC	100.00%	75.29%	19.73%
					Allocated per Class			\$51,852.41	\$39,039.51	\$10,230.78
Operating Expenses	\$0.00	\$0.00	\$0.00		\$0.00	Number of Smart Meters Installed for each Class		1,970	1,796	162
					Allocated per Class			\$0.00	\$0.00	\$0.00
Grossed-up Taxes/PILs	\$1,303.93	\$1,675.09	\$1,661.67		\$4,640.69	Revenue Requirement allocated to each Class before PILs		\$102,443.60	\$77,129.45	\$20,212.71
					Allocated per Class			\$4,640.69	\$3,493.96	\$915.63
								Total	Residential	General Service Less than 50 kW
TOTAL REVENUE REQUIREMENT					\$107,084.29			\$107,084.29	\$80,623.41	\$21,128.35
					Percentage of costs allocated to Residential and GS < 50 kW customer classes			100.00%	75.29%	19.73%
Revenue Generated from Smart Meter Funding Adder					\$103,515.86					
Revenues Generated from SMFA					\$103,515.86				\$ 94,372.83	\$ 8,512.47
Net Deferred Revenue Requirement					\$3,568.43					
					Allocated per Class			\$3,568.43	-\$13,749.43	\$12,615.88
					Number of Metered Customers	(2012)			1,796	162
					Smart Meter Disposition Rate Rider				-\$0.96	\$9.73

Smart Meter Funding Adder Revenues
Year

Residential
GS < 50 kW
Other Metered
Customer Classes

Estimated SMFA Revenues
Residential
GS < 50 kW
Other Metered
Customer Classes
Total

2006 (May 1, 2006)		1,796	162	12	\$	2,445.19	\$	220.56	\$	16.34	\$	2,682.08
	2007	1,796	162	12	\$	5,661.99	\$	510.71	\$	37.83	\$	6,210.54
	2008	1,796	162	12	\$	5,996.45	\$	540.88	\$	40.07	\$	6,577.40
	2009	1,796	162	12	\$	14,270.74	\$	1,287.23	\$	95.35	\$	15,653.32
	2010	1,796	162	12	\$	25,326.91	\$	2,284.50	\$	169.22	\$	27,780.63
	2011	1,796	162	12	\$	30,323.76	\$	2,735.22	\$	202.61	\$	33,261.59
2012 (to March 30, 2012)		1,796	162	12	\$	10,347.79	\$	933.37	\$	69.14	\$	11,350.30
					\$	94,372.83	\$	8,512.47	\$	630.55	\$	103,515.86

CHEI Smart Meter Disposition

Rate Class	SMDR	SMIRR
	Eight Month Recovery	
Residential	(\$0.96)	\$1.44
General Service Less than 50 kW	\$9.73	\$4.20
General Service Greater than 50 kW	\$48.98	\$14.30