



CAMBRIDGE AND NORTH DUMFRIES HYDRO INC.
1500 Bishop Street, P.O. Box 1060, Cambridge, ON N1R 5X6
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June 20, 2012

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
P.O. Box 2319
2300 Yonge Street, 26th Floor
Toronto, ON M4P 1E4

Dear Ms. Walli:

**Re: Cambridge and North Dumfries Hydro Inc. (OEB License ED-2002-0574)
2012 Smart Meter Cost Recovery Application – Final Disposition
EB-2012-0086
Applicant's Reply Submission**

As provided for in the Notice of Application and Hearing for an Electricity Distribution Rate Change dated April 9, 2012, please find attached Cambridge and North Dumfries Hydro Inc.'s Reply Submission.

If you require any additional information or clarification, please contact:

Grant Brooker
Manager, Regulatory Affairs,
Cambridge and North Dumfries Hydro Inc.
Tel 519.621.8405 Ext 2340

Sincerely,

CAMBRIDGE AND NORTH DUMFRIES HYDRO INC.

Original signed by John Grotheer

John W. Grotheer
President and CEO

CC Vulnerable Energy Consumers Coalition
Michael Janigan

Final Submission

Cambridge and North Dumfries Hydro Inc. ("CND") is a licensed electricity distributor regulated by the Ontario Energy Board ("OEB" or "the Board") under the *Ontario Energy Board Act, 1998*. CND holds Electricity Distribution License No. ED-2002-0574 and provides service to customers in the City of Cambridge and in the Township of North Dumfries. CND submitted a Smart Meter Cost Recovery Application ("the Application") on March 27, 2012, in which it sought Board approval for the disposition and recovery of costs related to smart meter deployment. CND was seeking recovery of capital expenditures of \$8,177,996 and operating expenditures of \$427,716 to December 31, 2011.

CND requested approval of a proposed Smart Meter Disposition Rider ("SMDR") and a Smart Meter Incremental Revenue Requirement Rate Rider ("SMIRR") effective July 1, 2012 to recover smart meter expenditures which had been partially off-set by Smart Meter Funding Adder ("SMFA") revenues collected from May 1, 2006 to April 30, 2012. The Application was based on the Board's policies and practice with respect to the recovery of smart meter costs and, in particular, Guideline G-2011-0001, Smart Meter Funding and Cost Recovery - Final Disposition, December 15, 2011 ("the Guidelines").

The Board issued its Letter of Direction and Notice of Application and Hearing on April 9, 2012, indicating that the Application would be considered by the Board by way of a written hearing. The Vulnerable Energy Consumers Coalition ("VECC") requested and was granted intervenor status and cost award eligibility. Two letters of comment were received and answered and these were placed on the public record.

Board staff and VECC filed interrogatories on May 18, 2012 and CND filed its responses on May 29, 2012.

Board staff filed its Submission on June 12, 2012 and VECC filed its Submission on June 13, 2012. This Reply Submission submitted by CND responds to the issues raised by Board staff and VECC in their respective submissions, and seeks Board approval of the resulting SMDR and SMIRR Rate riders. Both Board staff and VECC made comments pertaining to CND's inclusion of the IESO-SME fee of \$0.81 per month per RPP-eligible customer as applied for by the IESO in a separate application (EB-2012-0100). CND will first provide its comments on this common issue. Following the comments pertaining to the common issue, CND will respond to the issues raised only by Board staff and the issue raised only by VECC.

Common Issue Raised by Board staff and VECC

Board staff indicated in their Submission that the proposed class-specific SMIRRs submitted by CND included the IESO-SME fee as applied for by the IESO in a separate application (EB-2012-0100) in the amount of \$495,720 and that '...it is not appropriate to allow for recovery of the IESO-SME charges as originally proposed by

CND in its Application as it is being considered in a separate proceeding¹. VECC stated in their Submission that they '...agree with Board staff that the OM&A expense of \$495,720 for the recovery of the proposed IESO-SME fees applied for by the IESO in a separate application (EB-2012-0100) should be excluded from the calculations...' ² CND agrees that, if the IESO-SME charges will be recovered from customers in a manner other than through the SMIRRs, then the costs can be removed. To clearly show the process of removing these costs, CND began with the class specific Residential and General Service <50 kW models provided in response to VECC IR #9. CND then reduced expenses by \$495,720. The amount of \$450,362 was removed from the Residential model and \$45,358 was removed from the General Service < 50 kW model. These amounts were determined on the basis of the manner in which OM&A costs were allocated to each customer class: on the basis of the number of meters installed for each class. Residential represents 90.85% (46,067/50,709) and General Service represents 9.15% (4,642/50,709). The models are provided as Exhibit A for Residential and Exhibit B for General Service <50 customers.

The removal of this specific cost results in a SMIRR of \$1.21 for residential customers over 22 months and \$3.38 for General Service customers over 22 months. The 22 months represents the period July 1, 2012 to April 30, 2014. Table 1 below shows the Original and Revised SMDRs and SMIRRs.

Table 1: Original and Revised SMDRs and SMIRRs									
Class		SMDR (\$/month, for 22 months)				SMIRR (\$/month)			
		Original	Revised			Original	Revised		
			Board staff IR #11	VECC IR #9	Per Final Submission (No Change)		Board staff IR #11	VECC IR #9	Per Final Submission IESO-SME Removed
Residential		(\$0.06)	(\$0.38)	(\$0.40)	(\$0.40)	\$1.67	\$1.67	\$1.66	\$1.21
GS < 50 kW		(\$0.16)	\$3.07	\$3.28	\$3.28	\$3.76	\$3.76	\$3.83	\$3.38

Board Staff Submission

Board staff had comments on the recovery period for the SMDR and the SMIRR and suggested that the two rates do not necessarily need to be applied over the same time period.³ CND would prefer that these two rates begin and end over the same time period. Numerous changes to rates require programming and implementation time and costs. It is more efficient to both apply and remove the two rates at the same time. This simultaneous timing is also easier to explain to customers. CND is

¹ Board staff Final Submission page 10

² VECC Final Submission page 7

³ Board staff Final Submission page 10

implementing TOU pricing in its next billing cycles and is anticipating a number of customer inquiries in this regard. To have to explain two additional rates that may begin and expire at different times will cause unnecessary confusion for customers both now and in the future. CND would prefer that both the SMDR and the SMIRR are implemented July 1, 2012 and that both remain in effect until the effective date of CND's next cost of service rebased rates, expected to be April 30, 2014, a period of 22 months.

Board staff has asked for CND's confirmation that they are not proposing recovery of the two months of foregone SMIRR revenues for the period May 1, 2012 to June 30, 2012.⁴ CND confirms that they are not proposing such recovery.

VECC Submission

VECC has indicated in their submission that as a matter of principle the direct meter reading savings identified by CND of \$155,000 should be incorporated during the IRM period.⁵ In CND's responses to VECC IR 3 and to Board staff IR 3, CND stated that their focus has been in meeting the provincial requirements for Smart Meter deployment and Time-of-Use Billing. As such the only expediently identified saving is in the area of manual meter reading. CND is not able to determine if there are additional and unanticipated costs or if there are additional cost savings that could not have been incorporated into this Application. This can more accurately be determined when the full impacts of TOU pricing is implemented, a process that is now beginning. Board staff has indicated in their Submission that '...CND should be prepared to address any operational efficiencies due to smart meter and TOU implementation in its next cost of service rebasing application.'⁶ CND concurs with this approach and would prefer to address the as yet undetermined cost savings and cost expenditures as part of its next cost of service rebasing application, expected at this time to be filed in August of 2013. CND, therefore, respectfully requests that the \$155,000 anticipated savings not be incorporated into the SMIRR models.

CONCLUSION

CND requests Board approval of its final SMDR and SMIRR rates as indicated in Table 1.

Respectfully submitted June 20, 2012

⁴ Board staff Final Submission Page 14

⁵ VECC Final Submission Page 4

⁶ Board staff Final Submission Page 12

EXHIBIT A (Residential)

To Reply Submission

Cambridge and North Dumfries Hydro Inc. EB-2012-0086



Ontario Energy Board

Smart Meter Model

Cambridge and North Dumfries Hydro
Canadian Niagara Power Inc. - Eastern

Choose Your Utility:

Application Contact Information

Name: Grant Brooker

Title: Manager, Regulatory Affairs

Phone Number: 519.621-8405 ext 2340

Email Address: gbrooker@camhydro.com

We are applying for rates effective: May 1, 2012

Last COS Re-based Year 2010

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.



Ontario Energy Board

Smart Meter Model

Cambridge and North Dumfries Hydro Inc.

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.

Smart Meter Capital Cost and Operational Expense Data

Smart Meter Installation Plan

Actual/Planned number of Smart Meters installed during the Calendar Year

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast	Total
Residential				7,205	38,304	558		46067
General Service < 50 kW				0	0	0		0
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	0	7205	38304	558	0	46067
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	0.00%	15.64%	98.79%	100.00%	0.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed								0
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	0	7205	38304	558	0	46067

1 Capital Costs

1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)

1.1.1 Smart Meters (may include new meters and modules, etc.)

1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)

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)

Asset Type

Asset type must be selected to enable calculations

	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter				920,774	3,892,745	298,758		\$ 5,112,278
Smart Meter					313,999	0		\$ 313,999
								\$ -
								\$ -
Total Advanced Metering Communications Devices (AMCD)	\$ -	\$ -	\$ -	\$ 920,774	\$ 4,206,744	\$ 298,758	\$ -	\$ 5,426,277

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

1.2.1 Collectors

1.2.2 Repeaters (may include radio licence, etc.)

1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)

Total Advanced Metering Regional Collector (AMRC) (Includes LAN)

Asset Type

	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter			110,220	204,683				\$ 314,903
								\$ -
								\$ -
Total Advanced Metering Regional Collector (AMRC) (Includes LAN)	\$ -	\$ -	\$ 110,220	\$ 204,683	\$ -	\$ -	\$ -	\$ 314,903

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	
Computer Hardware				152,193		0		\$ 152,193
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ 152,193	\$ -	\$ -	\$ -	\$ 152,193

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	
Other Equipment								\$ -
Computer Software				16,719	8,815	6,489		\$ 32,023
Computer Hardware				29,255				\$ 29,255
Computer Hardware								\$ -
Computer Software			17,940	27,113	30,234	32,390		\$ 107,676
Computer Software						0		\$ -
	\$ -	\$ -	\$ 17,940	\$ 73,086	\$ 39,049	\$ 38,879	\$ -	\$ 168,954
	\$ -	\$ -	\$ 128,160	\$ 1,350,737	\$ 4,245,793	\$ 337,637	\$ -	\$ 6,062,327

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								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ 128,160	\$ 1,350,737	\$ 4,245,793	\$ 337,637	\$ -	\$ 6,062,327

2 OM&A Expenses

2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)

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

2.1.2 Other (please specify)

Total Incremental AMCD OM&A Costs

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

2.2.1 Maintenance

2.2.2 Other (please specify)

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.)

2.3.2 Other (please specify)

Total Incremental AMCC OM&A Costs

2.4 WIDE AREA NETWORK (WAN)

2.4.1 WAN Maintenance

2.4.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.5 OTHER AMI OM&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 AMI 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

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

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

	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				62,526	85,663	84,347	172,701	\$ 405,237
						0		\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ 62,526	\$ 85,663	\$ 84,347	\$ 172,701	\$ 405,237
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
								\$ 12,437
				3,378	31,352	0	27,143	\$ 61,872
							37,311	\$ 37,311
								\$ -
			69	5,942	0			\$ 6,012
				673	95,227	19,403	77,731	\$ 193,034
	\$ -	\$ -	\$ 69	\$ 9,994	\$ 126,578	\$ 19,403	\$ 154,622	\$ 310,666
	\$ -	\$ -	\$ 69	\$ 72,519	\$ 212,241	\$ 103,750	\$ 327,324	\$ 715,903
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual		
								\$ -
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ 69	\$ 72,519	\$ 212,241	\$ 103,750	\$ 327,324	\$ 715,903

3 Aggregate Smart Meter Costs by Category

3.1	Capital									
3.1.1	Smart Meter	\$ -	\$ -	\$ 110,220	\$ 1,125,457	\$ 4,206,744	\$ 298,758	\$ -	\$ 5,741,180	
3.1.2	Computer Hardware	\$ -	\$ -	\$ -	\$ 181,448	\$ -	\$ -	\$ -	\$ 181,448	
3.1.3	Computer Software	\$ -	\$ -	\$ 17,940	\$ 43,832	\$ 39,049	\$ 38,879	\$ -	\$ 139,699	
3.1.4	Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3.1.5	Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3.1.6	Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3.1.7	Total Capital Costs	\$ -	\$ -	\$ 128,160	\$ 1,350,737	\$ 4,245,793	\$ 337,637	\$ -	\$ 6,062,327	
3.2	OM&A Costs									
3.2.1	Total OM&A Costs	\$ -	\$ -	\$ 69	\$ 72,519	\$ 212,241	\$ 103,750	\$ 327,324	\$ 715,903	



Cambridge and North Dumfries Hydro Inc.

	2006	2007
Cost of Capital		
Capital Structure¹		
Deemed Short-term Debt Capitalization		
Deemed Long-term Debt Capitalization	50.0%	50.0%
Deemed Equity Capitalization	50.0%	50.0%
Preferred Shares		
Total	100.0%	100.0%
Cost of Capital Parameters		
Deemed Short-term Debt Rate		
Long-term Debt Rate (actual/embedded/deemed) ²	6.01%	6.01%
Target Return on Equity (ROE)	9.0%	9.00%
Return on Preferred Shares		
WACC	7.51%	7.51%
Working Capital Allowance		
Working Capital Allowance Rate	15.0%	15.0%
<i>(% of the sum of Cost of Power + controllable expenses)</i>		
Taxes/PILs		
Aggregate Corporate Income Tax Rate	36.12%	36.12%
Capital Tax (until July 1st, 2010)	0.30%	0.225%
Depreciation Rates		
<i>(expressed as expected useful life in years)</i>		
Smart Meters - years	15	15
- rate (%)	6.67%	6.67%
Computer Hardware - years	5	5
- rate (%)	20.00%	20.00%
Computer Software - years	3	3
- rate (%)	33.33%	33.33%

Tools & Equipment - years	10	10
- rate (%)	10.00%	10.00%
Other Equipment - years	10	10
- rate (%)	10.00%	10.00%

CCA Rates

Smart Meters - CCA Class	47	47
Smart Meters - CCA Rate	8%	8%
Computer Equipment - CCA Class	45	50
Computer Equipment - CCA Rate	45%	55%
General Equipment - CCA Class	8	8
General Equipment - CCA Rate	20%	20%
Applications Software - CCA Class		
Applications Software - CCA Rate		

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



2008	2009	2010	2011	2012 and later
0.0% 53.3% 46.7% 100.0%	0.0% 56.7% 43.3% 100.0%	4.0% 56.0% 40.0% 100.0%	4.0% 56.0% 40.0% 100.0%	4.0% 56.0% 40.0% 100.0%
0.00% 6.01% 9.00% 7.41%	0.00% 6.01% 9.00% 7.30%	2.07% 4.99% 9.85% 6.82%	2.07% 4.99% 9.85% 6.82%	2.07% 4.99% 9.85% 6.82%
15.0%	15.0%	15.0%	15.0%	15.0%
33.50% 0.225%	33.00% 0.225%	31.00% 0.075%	28.25% 0.00%	26.25% 0.00%
15 6.67% 5 20.00% 3 33.33%	15 6.67% 5 20.00% 3 33.33%	15 6.67% 5 20.00% 3 33.33%	15 6.67% 5 20.00% 3 33.33%	15 6.67% 5 20.00% 3 33.33%

10	10	10	10	10
10.00%	10.00%	10.00%	10.00%	10.00%
10	10	10	10	10
10.00%	10.00%	10.00%	10.00%	10.00%

47	47	47	47	47
8%	8%	8%	8%	8%

50	50	50	50	50
55%	55%	100%	100%	100%

8	8	8	8	8
20%	20%	20%	20%	20%



Ontario Energy Board

Smart Meter Model

Cambridge and North Dumfries Hydro Inc.

	2006	2007	2008	2009	2010	2011
Net Fixed Assets - Smart Meters						
Gross Book Value						
Opening Balance		\$ -	\$ -	\$ 110,220	\$ 1,235,677	\$ 5,442,422
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ 110,220	\$ 1,125,457	\$ 4,206,744	\$ 298,758
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ 110,220	\$ 1,235,677	\$ 5,442,422	\$ 5,741,180
Accumulated Depreciation						
Opening Balance		\$ -	\$ -	-\$ 3,674	-\$ 48,537	-\$ 271,141
Amortization expense during year	\$ -	\$ -	-\$ 3,674	-\$ 44,863	-\$ 222,603	-\$ 372,787
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	-\$ 3,674	-\$ 48,537	-\$ 271,141	-\$ 643,927
Net Book Value						
Opening Balance	\$ -	\$ -	\$ -	\$ 106,546	\$ 1,187,140	\$ 5,171,281
Closing Balance	\$ -	\$ -	\$ 106,546	\$ 1,187,140	\$ 5,171,281	\$ 5,097,253
Average Net Book Value	\$ -	\$ -	\$ 53,273	\$ 646,843	\$ 3,179,211	\$ 5,134,267
Net Fixed Assets - Computer Hardware						
Gross Book Value						
Opening Balance		\$ -	\$ -	\$ -	\$ 181,448	\$ 181,448
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 181,448	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	\$ 181,448	\$ 181,448	\$ 181,448
Accumulated Depreciation						
Opening Balance	\$ -	\$ -	\$ -	\$ -	-\$ 18,145	-\$ 54,434
Amortization expense during year	\$ -	\$ -	\$ -	-\$ 18,145	-\$ 36,290	-\$ 36,290
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	-\$ 18,145	-\$ 54,434	-\$ 90,724
Net Book Value						
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 163,303	\$ 127,014
Closing Balance	\$ -	\$ -	\$ -	\$ 163,303	\$ 127,014	\$ 90,724
Average Net Book Value	\$ -	\$ -	\$ -	\$ 81,652	\$ 145,158	\$ 108,869
Net Fixed Assets - Computer Software (including Applications Software)						
Gross Book Value						
Opening Balance		\$ -	\$ -	\$ 17,940	\$ 61,771	\$ 100,820
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ 17,940	\$ 43,832	\$ 39,049	\$ 38,879
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ 17,940	\$ 61,771	\$ 100,820	\$ 139,699
Accumulated Depreciation						
Opening Balance	\$ -	\$ -	\$ -	-\$ 2,990	-\$ 16,275	-\$ 43,374
Amortization expense during year	\$ -	\$ -	-\$ 2,990	-\$ 13,285	-\$ 27,099	-\$ 40,087
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	-\$ 2,990	-\$ 16,275	-\$ 43,374	-\$ 83,460
Net Book Value						
Opening Balance	\$ -	\$ -	\$ -	\$ 14,950	\$ 45,496	\$ 57,447
Closing Balance	\$ -	\$ -	\$ 14,950	\$ 45,496	\$ 57,447	\$ 56,239
Average Net Book Value	\$ -	\$ -	\$ 7,475	\$ 30,223	\$ 51,471	\$ 56,843

Net Fixed Assets - Tools and Equipment

Gross Book Value

Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

Accumulated Depreciation

Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

Net Book Value

Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

Net Fixed Assets - Other Equipment

Gross Book Value

Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

Accumulated Depreciation

Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

Net Book Value

Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>



2012 and later

\$	5,741,180
\$	-
\$	5,741,180

-\$	643,927
-\$	382,745
-\$	1,026,673

\$	5,097,253
\$	4,714,507
\$	4,905,880

\$	181,448
\$	-
\$	181,448

-\$	90,724
-\$	36,290
-\$	127,014

\$	90,724
\$	54,434
\$	72,579

\$	139,699
\$	-
\$	139,699

-\$	83,460
-\$	46,566
-\$	130,027

\$	56,239
\$	9,673
\$	32,956

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-



Ontario Energy Board

Smart Meter Model

Cambridge and North Dumfries Hydro Inc.

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ 53,273	\$ 646,843	\$ 3,179,211	\$ 5,134,267	\$ 4,905,880
Computer Hardware	\$ -	\$ -	\$ -	\$ 81,652	\$ 145,158	\$ 108,869	\$ 72,579
Computer Software	\$ -	\$ -	\$ 7,475	\$ 30,223	\$ 51,471	\$ 56,843	\$ 32,956
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ 60,748	\$ 758,718	\$ 3,375,840	\$ 5,299,978	\$ 5,011,415
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ 69	\$ 72,519	\$ 212,241	\$ 103,750	\$ 327,324
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ 10	\$ 10,878	\$ 31,836	\$ 15,563	\$ 49,099
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ 60,758	\$ 769,596	\$ 3,407,676	\$ 5,315,541	\$ 5,060,514
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 136,307	\$ 212,622	\$ 202,421
Deemed Long Term Debt	\$ -	\$ -	\$ 32,384	\$ 436,361	\$ 1,908,299	\$ 2,976,703	\$ 2,833,888
Equity	\$ -	\$ -	\$ 28,374	\$ 333,235	\$ 1,363,071	\$ 2,126,216	\$ 2,024,205
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ 60,758	\$ 769,596	\$ 3,407,676	\$ 5,315,541	\$ 5,060,514
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 2,822	\$ 4,401	\$ 4,190
Deemed Long Term Debt	\$ -	\$ -	\$ 1,946	\$ 26,225	\$ 95,224	\$ 148,537	\$ 141,411
Equity	\$ -	\$ -	\$ 2,554	\$ 29,991	\$ 134,262	\$ 209,432	\$ 199,384
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ 4,500	\$ 56,216	\$ 232,308	\$ 362,371	\$ 344,985
Operating Expenses	\$ -	\$ -	\$ 69	\$ 72,519	\$ 212,241	\$ 103,750	\$ 327,324
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ 3,674	\$ 44,863	\$ 222,603	\$ 372,787	\$ 382,745
Computer Hardware	\$ -	\$ -	\$ -	\$ 18,145	\$ 36,290	\$ 36,290	\$ 36,290
Computer Software	\$ -	\$ -	\$ 2,990	\$ 13,285	\$ 27,099	\$ 40,087	\$ 46,566
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ 6,664	\$ 76,293	\$ 285,991	\$ 449,163	\$ 465,601
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ 11,233	\$ 205,029	\$ 730,541	\$ 915,284	\$ 1,137,910
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ 69	\$ 72,519	\$ 212,241	\$ 103,750	\$ 327,324
Amortization Expense	\$ -	\$ -	\$ 6,664	\$ 76,293	\$ 285,991	\$ 449,163	\$ 465,601
Interest Expense	\$ -	\$ -	\$ 1,946	\$ 26,225	\$ 98,046	\$ 152,939	\$ 145,601
Net Income for Taxes/PILs	\$ -	\$ -	\$ 2,554	\$ 29,991	\$ 134,262	\$ 209,432	\$ 199,384
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ 210.60	\$ 4,889.55	\$ 9,885.42	\$ 77,925.87	\$ 87,423.88
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ 11,444	\$ 200,139	\$ 720,655	\$ 993,210	\$ 1,225,334



Ontario Energy Board

Smart Meter Model

Cambridge and North Dumfries Hydro Inc.

For PILs Calculation

UCC - Smart Meters

	2006 Audited Actua	2007 Audited Actua	2008 Audited Actua	2009 Audited Actua	2010 Audited Actua	2011 Audited Actua	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ 105,811.42	\$ 1,177,785.29	\$ 5,122,037.01	\$ 4,999,082.14
Capital Additions	\$ -	\$ -	\$ 110,220.23	\$ 1,125,457.06	\$ 4,206,744.32	\$ 298,758.43	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ 110,220.23	\$ 1,231,268.48	\$ 5,384,529.60	\$ 5,420,795.44	\$ 4,999,082.14
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ 55,110.12	\$ 562,728.53	\$ 2,103,372.16	\$ 149,379.21	\$ -
Reduced UCC	\$ -	\$ -	\$ 55,110.12	\$ 668,539.95	\$ 3,281,157.45	\$ 5,271,416.22	\$ 4,999,082.14
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ 4,408.81	\$ 53,483.20	\$ 262,492.60	\$ 421,713.30	\$ 399,926.57
Closing UCC	\$ -	\$ -	\$ 105,811.42	\$ 1,177,785.29	\$ 5,122,037.01	\$ 4,999,082.14	\$ 4,599,155.57

UCC - Computer Equipment

	2006 Audited Actua	2007 Audited Actua	2008 Audited Actua	2009 Audited Actua	2010 Audited Actua	2011 Audited Actua	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ 13,006.25	\$ 169,180.51	\$ 19,524.47	\$ 19,439.52
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 181,448.01	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ 17,939.66	\$ 43,831.57	\$ 39,048.93	\$ 38,879.04	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ 17,939.66	\$ 238,285.83	\$ 208,229.44	\$ 58,403.50	\$ 19,439.52
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ 8,969.83	\$ 112,639.79	\$ 19,524.47	\$ 19,439.52	\$ -
Reduced UCC	\$ -	\$ -	\$ 8,969.83	\$ 125,646.04	\$ 188,704.97	\$ 38,963.98	\$ 19,439.52
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	100%	100%	100%
CCA	\$ -	\$ -	\$ 4,933.41	\$ 69,105.32	\$ 188,704.97	\$ 38,963.98	\$ 19,439.52
Closing UCC	\$ -	\$ -	\$ 13,006.25	\$ 169,180.51	\$ 19,524.47	\$ 19,439.52	\$ -

UCC - General Equipment

	2006 Audited Actua	2007 Audited Actua	2008 Audited Actua	2009 Audited Actua	2010 Audited Actua	2011 Audited Actua	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



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	\$ -	\$ -	\$ 2,553.67	\$ 29,991.14	\$ 134,262.45	\$ 209,432.31	\$ 199,384.24
Amortization	\$ -	\$ -	\$ 6,663.95	\$ 76,293.20	\$ 285,991.46	\$ 449,162.88	\$ 465,601.34
CCA - Smart Meters	\$ -	\$ -	\$ 4,408.81	\$ 53,483.20	\$ 262,492.60	\$ 421,713.30	\$ 399,926.57
CCA - Computers	\$ -	\$ -	\$ 4,933.41	\$ 69,105.32	\$ 188,704.97	\$ 38,963.98	\$ 19,439.52
CCA - Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ 124.59	\$ 16,304.18	\$ 30,943.65	\$ 197,917.91	\$ 245,619.48
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ 41.74	\$ 5,380.38	\$ 9,592.53	\$ 55,911.81	\$ 64,475.11
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ 106,546.22	\$ 1,187,140.03	\$ 5,171,281.05	\$ 5,097,252.76	\$ 4,714,507.43
Computer Hardware	\$ -	\$ -	\$ -	\$ 163,303.21	\$ 127,013.61	\$ 90,724.01	\$ 54,434.40
Computer Software (Including Application Software)	\$ -	\$ -	\$ 14,949.71	\$ 45,496.13	\$ 57,446.50	\$ 56,238.98	\$ 9,672.58
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ 121,495.94	\$ 1,395,939.38	\$ 5,355,741.16	\$ 5,244,215.75	\$ 4,778,614.41
Less: Exemption							
Deemed Taxable Capital	\$ -	\$ -	\$ 121,495.94	\$ 1,395,939.38	\$ 5,355,741.16	\$ 5,244,215.75	\$ 4,778,614.41
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)	\$ -	\$ -	\$ 273.37	\$ 3,140.86	\$ 4,016.81	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ 41.74	\$ 5,380.38	\$ 9,592.53	\$ 55,911.81	\$ 64,475.11
Change in OCT	\$ -	\$ -	\$ 273.37	\$ 3,140.86	\$ 4,016.81	\$ -	\$ -
PILs	\$ -	\$ -	\$ 231.63	\$ 2,239.52	\$ 5,575.73	\$ 55,911.81	\$ 64,475.11
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ 62.76	\$ 8,030.42	\$ 13,902.22	\$ 77,925.87	\$ 87,423.88
Change in OCT	\$ -	\$ -	\$ 273.37	\$ 3,140.86	\$ 4,016.81	\$ -	\$ -
PILs	\$ -	\$ -	\$ 210.60	\$ 4,889.55	\$ 9,885.42	\$ 77,925.87	\$ 87,423.88





Ontario Energy Board

Smart Meter Model

Cambridge and North Dumfries Hydro Inc.

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	Board Approved Smart Meter Funding Adder (from Tariff)
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	\$ -	\$ 5,220.93	4.14%	\$ -	\$ 5,220.93		\$ 0.27
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ 5,220.93	\$ 10,023.59	4.59%	\$ 19.97	\$ 15,264.49		\$ 0.27
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ 15,244.52	\$ 11,916.68	4.59%	\$ 58.31	\$ 27,219.51		\$ 0.27
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ 27,161.20	\$ 11,055.03	4.59%	\$ 103.89	\$ 38,320.12		\$ 0.27
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ 38,216.23	\$ 11,378.29	4.59%	\$ 146.18	\$ 49,740.70		\$ 0.27
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ 49,594.52	\$ 12,311.46	4.59%	\$ 189.70	\$ 62,095.68		\$ 0.27
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ 61,905.98	\$ 10,857.16	4.59%	\$ 236.79	\$ 72,999.93	\$ 73,517.98	\$ 0.27
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ 72,763.14	\$ 11,928.65	4.59%	\$ 278.32	\$ 84,970.11		\$ 0.27
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ 84,691.79	\$ 11,447.72	4.59%	\$ 323.95	\$ 96,463.46		\$ 0.27
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ 96,139.51	\$ 11,957.25	4.59%	\$ 367.73	\$ 108,464.49		\$ 0.27
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ 108,096.76	\$ 11,413.83	4.59%	\$ 413.47	\$ 119,924.06		\$ 0.27
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ 119,510.59	\$ 12,012.71	4.59%	\$ 457.13	\$ 131,980.43		\$ 0.27
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ 131,523.30	\$ 11,419.98	4.59%	\$ 503.08	\$ 143,446.36		\$ 0.27
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ 142,943.28	\$ 11,974.91	4.59%	\$ 546.76	\$ 155,464.95		\$ 0.27
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ 154,918.19	\$ 12,003.86	4.59%	\$ 592.56	\$ 167,514.61		\$ 0.27
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ 166,922.05	\$ 11,381.54	4.59%	\$ 638.48	\$ 178,942.07		\$ 0.27
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ 178,303.59	\$ 11,374.61	5.14%	\$ 763.73	\$ 190,441.93		\$ 0.27
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ 189,678.20	\$ 13,213.34	5.14%	\$ 812.45	\$ 203,703.99		\$ 0.27
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ 202,891.54	\$ 10,171.58	5.14%	\$ 869.05	\$ 213,932.17	\$ 146,866.69	\$ 0.27
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ 213,063.12	\$ 12,047.27	5.14%	\$ 912.62	\$ 226,023.01		\$ 0.27
2012 Q2		4.29%	Feb-08	2008	Q1	\$ 225,110.39	\$ 11,443.10	5.14%	\$ 964.22	\$ 237,517.71		\$ 0.27
2012 Q3		4.29%	Mar-08	2008	Q1	\$ 236,553.49	\$ 12,058.89	5.14%	\$ 1,013.24	\$ 249,625.62		\$ 0.27
2012 Q4		4.29%	Apr-08	2008	Q2	\$ 248,612.38	\$ 11,468.33	4.08%	\$ 845.28	\$ 260,925.99		\$ 0.27
			May-08	2008	Q2	\$ 260,080.71	\$ 12,067.37	4.08%	\$ 884.27	\$ 273,032.35		\$ 0.27
			Jun-08	2008	Q2	\$ 272,148.08	\$ 11,475.59	4.08%	\$ 925.30	\$ 284,548.97		\$ 0.27
			Jul-08	2008	Q3	\$ 283,623.67	\$ 12,601.14	3.35%	\$ 791.78	\$ 297,016.59		\$ 0.27
			Aug-08	2008	Q3	\$ 296,224.81	\$ 10,891.00	3.35%	\$ 826.96	\$ 307,942.77		\$ 0.27
			Sep-08	2008	Q3	\$ 307,115.81	\$ 12,069.78	3.35%	\$ 857.36	\$ 320,042.95		\$ 0.27
			Oct-08	2008	Q4	\$ 319,185.59	\$ 12,027.16	3.35%	\$ 891.06	\$ 332,103.81		\$ 0.27
			Nov-08	2008	Q4	\$ 331,212.75	\$ 11,467.72	3.35%	\$ 924.64	\$ 343,605.11		\$ 0.27
			Dec-08	2008	Q4	\$ 342,680.47	\$ 11,455.70	3.35%	\$ 956.65	\$ 355,092.82	\$ 151,866.43	\$ 0.27
			Jan-09	2009	Q1	\$ 354,136.17	\$ 12,079.05	2.45%	\$ 723.03	\$ 366,938.25		\$ 0.27
			Feb-09	2009	Q1	\$ 366,215.22	\$ 11,507.48	2.45%	\$ 747.69	\$ 378,470.39		\$ 0.27
			Mar-09	2009	Q1	\$ 377,722.70	\$ 12,207.04	2.45%	\$ 771.18	\$ 390,700.92		\$ 0.27
			Apr-09	2009	Q2	\$ 389,929.74	\$ 11,620.88	1.00%	\$ 324.94	\$ 401,875.56		\$ 0.27
			May-09	2009	Q2	\$ 401,550.62	\$ 12,685.46	1.00%	\$ 334.63	\$ 414,570.71		\$ 1.00
			Jun-09	2009	Q2	\$ 414,236.08	\$ 25,811.50	1.00%	\$ 345.20	\$ 440,392.78		\$ 1.00
			Jul-09	2009	Q3	\$ 440,047.58	\$ 42,634.14	0.55%	\$ 201.69	\$ 482,883.41		\$ 1.00
			Aug-09	2009	Q3	\$ 482,681.72	\$ 43,226.30	0.55%	\$ 221.23	\$ 526,129.25		\$ 1.00
			Sep-09	2009	Q3	\$ 525,908.02	\$ 45,026.29	0.55%	\$ 241.04	\$ 571,175.35		\$ 1.00
			Oct-09	2009	Q4	\$ 570,934.31	\$ 43,618.42	0.55%	\$ 261.68	\$ 614,814.41		\$ 1.00
			Nov-09	2009	Q4	\$ 614,552.73	\$ 45,064.31	0.55%	\$ 281.67	\$ 659,898.71		\$ 1.00
			Dec-09	2009	Q4	\$ 659,617.04	\$ 43,914.18	0.55%	\$ 302.32	\$ 703,833.54	\$ 354,151.35	\$ 1.00
			Jan-10	2010	Q1	\$ 703,531.22	\$ 39,267.73	0.55%	\$ 322.45	\$ 743,121.40		\$ 1.00
			Feb-10	2010	Q1	\$ 742,798.95	\$ 40,981.59	0.55%	\$ 340.45	\$ 784,120.99		\$ 1.00
			Mar-10	2010	Q1	\$ 783,780.54	\$ 48,640.18	0.55%	\$ 359.23	\$ 832,779.95		\$ 1.00
			Apr-10	2010	Q2	\$ 832,420.72	\$ 43,245.11	0.55%	\$ 381.53	\$ 876,047.36		\$ 1.00
			May-10	2010	Q2	\$ 875,665.83	\$ 41,153.66	0.55%	\$ 401.35	\$ 917,220.84		\$ 1.00
			Jun-10	2010	Q2	\$ 916,819.49	\$ 48,755.69	0.55%	\$ 420.21	\$ 965,995.39		\$ 1.00
			Jul-10	2010	Q3	\$ 965,575.18	\$ 46,376.48	0.89%	\$ 716.13	\$ 1,012,667.79		\$ 1.00
			Aug-10	2010	Q3	\$ 1,011,951.66	\$ 43,541.87	0.89%	\$ 750.53	\$ 1,056,244.06		\$ 1.00
			Sep-10	2010	Q3	\$ 1,055,493.53	\$ 46,604.65	0.89%	\$ 782.82	\$ 1,102,881.00		\$ 1.00
			Oct-10	2010	Q4	\$ 1,102,098.18	\$ 41,339.37	1.20%	\$ 1,102.10	\$ 1,144,539.65		\$ 1.00
			Nov-10	2010	Q4	\$ 1,143,437.55	\$ 48,708.95	1.20%	\$ 1,143.44	\$ 1,193,289.94		\$ 1.00
			Dec-10	2010	Q4	\$ 1,192,146.50	\$ 43,567.89	1.20%	\$ 1,192.15	\$ 1,236,906.54	\$ 540,095.56	\$ 1.00
			Jan-11	2011	Q1	\$ 1,235,714.39	\$ 46,792.48	1.47%	\$ 1,513.75	\$ 1,284,020.62		\$ 1.00
			Feb-11	2011	Q1	\$ 1,282,506.87	\$ 41,958.97	1.47%	\$ 1,571.07	\$ 1,326,036.91		\$ 1.00
			Mar-11	2011	Q1	\$ 1,324,465.84	\$ 51,431.32	1.47%	\$ 1,622.47	\$ 1,377,519.63		\$ 1.00
			Apr-11	2011	Q2	\$ 1,375,897.16	\$ 39,846.76	1.47%	\$ 1,685.47	\$ 1,417,429.39		\$ 1.00
			May-11	2011	Q2	\$ 1,415,743.92	\$ 39,644.11	1.47%	\$ 1,734.29	\$ 1,457,122.32		\$ 1.61
			Jun-11	2011	Q2	\$ 1,455,388.03	\$ 61,267.96	1.47%	\$ 1,782.85	\$ 1,518,438.84		\$ 1.61
			Jul-11	2011	Q3	\$ 1,516,655.99	\$ 52,952.47	1.47%	\$ 1,857.90	\$ 1,571,466.36		\$ 1.61
			Aug-11	2011	Q3	\$ 1,569,608.46	\$ 95,789.93	1.47%	\$ 1,922.77	\$ 1,667,321.16		\$ 1.61
			Sep-11	2011	Q3	\$ 1,665,398.39	\$ 74,839.40	1.47%	\$ 2,040.11	\$ 1,742,277.90		\$ 1.61
			Oct-11	2011	Q4	\$ 1,740,237.79	\$ 68,535.83	1.47%	\$ 2,131.79	\$ 1,810,905.41		\$ 1.61
			Nov-11	2011	Q4	\$ 1,808,773.62	\$ 78,072.31	1.47%	\$ 2,215.75	\$ 1,889,061.68		\$ 1.61
			Dec-11	2011	Q4	\$ 1,886,845.93	\$ 68,699.94	1.47%	\$ 2,311.39	\$ 1,957,857.26	\$ 742,221.09	\$ 1.61
			Jan-12	2012	Q1	\$ 1,955,545.87	\$ 81,666.27	1.47%	\$ 2,395.54	\$ 2,039,607.68		\$ 1.61
			Feb-12	2012	Q1	\$ 2,037,212.14	\$ 73,278.94	1.47%	\$ 2,495.58	\$ 2,112,986.66		\$ 1.61



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				Board Approved Smart
			Date	Year	Quarter	(Principal)	Revenues	Rate	Interest	Closing Balance	Annual amounts	Meter Funding Adder (from Tariff)
			Mar-12	2012	Q1	\$ 2,110,491.08	\$ 88,193.51	1.47%	\$ 2,585.35	\$ 2,201,269.94		\$ 1.61
			Apr-12	2012	Q2	\$ 2,198,684.59	\$ 89,200.00	1.47%	\$ 2,693.39	\$ 2,290,577.98		\$ 1.61
			May-12	2012	Q2	\$ 2,287,884.59	\$ -	0.00%	\$ -	\$ 2,287,884.59		
			Jun-12	2012	Q2	\$ 2,287,884.59	\$ -	0.00%	\$ -	\$ 2,287,884.59		
			Jul-12	2012	Q3	\$ 2,287,884.59	\$ -	0.00%	\$ -	\$ 2,287,884.59		
			Aug-12	2012	Q3	\$ 2,287,884.59	\$ -	0.00%	\$ -	\$ 2,287,884.59		
			Sep-12	2012	Q3	\$ 2,287,884.59	\$ -	0.00%	\$ -	\$ 2,287,884.59		
			Oct-12	2012	Q4	\$ 2,287,884.59	\$ -	0.00%	\$ -	\$ 2,287,884.59		
			Nov-12	2012	Q4	\$ 2,287,884.59	\$ -	0.00%	\$ -	\$ 2,287,884.59		
			Dec-12	2012	Q4	\$ 2,287,884.59	\$ -	0.00%	\$ -	\$ 2,287,884.59	\$ 342,508.58	
Total Funding Adder Revenues Collected						\$ 2,287,884.59			\$ 63,343.09	\$ 2,351,227.68	\$ 2,351,227.68	



Cambridge and North Dumfries Hydro Inc.

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	0.00%	4.29%		Feb-08	2008	Q1	-
2012 Q3	0.00%	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	-
				Mar-09	2009	Q1	-
				Apr-09	2009	Q2	-
				May-09	2009	Q2	-
				Jun-09	2009	Q2	-
				Jul-09	2009	Q3	-
				Aug-09	2009	Q3	-
				Sep-09	2009	Q3	-
				Oct-09	2009	Q4	-
				Nov-09	2009	Q4	-
				Dec-09	2009	Q4	-
				Jan-10	2010	Q1	-
				Feb-10	2010	Q1	-
				Mar-10	2010	Q1	-
				Apr-10	2010	Q2	-
				May-10	2010	Q2	-
				Jun-10	2010	Q2	-
				Jul-10	2010	Q3	-
				Aug-10	2010	Q3	-
				Sep-10	2010	Q3	-
				Oct-10	2010	Q4	-
				Nov-10	2010	Q4	-
				Dec-10	2010	Q4	-
				Jan-11	2011	Q1	-
				Feb-11	2011	Q1	-
				Mar-11	2011	Q1	-
				Apr-11	2011	Q2	-
				May-11	2011	Q2	-
				Jun-11	2011	Q2	-
				Jul-11	2011	Q3	-
				Aug-11	2011	Q3	-
				Sep-11	2011	Q3	-
				Oct-11	2011	Q4	-
				Nov-11	2011	Q4	-
				Dec-11	2011	Q4	-

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



preciation expense, based on monthly data.

ib-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%	-	-

\$

-

\$

-

\$

-	1.47%	-	-
-	1.47%	-	-
-	1.47%	-	-
-	1.47%	-	-
-	0.00%	-	-
-	0.00%	-	-
-	0.00%	-	-
-	0.00%	-	-
-	0.00%	-	-
-	0.00%	-	-
-	0.00%	-	-
-	0.00%	-	-

-



EXHIBIT B (General Service <50 kW)

To Reply Submission

Cambridge and North Dumfries Hydro Inc. EB-2012-0086



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Application Contact Information

Name:	Grant Brooker
Title:	Manager, Regulatory Affairs
Phone Number:	519.621-8405 ext 2340
Email Address:	gbrooker@camhydro.com
We are applying for rates effective:	May 1, 2012
Last COS Re-based Year	2010

Legend

DROP-DOWN MENU

INPUT FIELD

CALCULATION FIELD

Copyright

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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.



Ontario Energy Board

Smart Meter Model

Cambridge and North Dumfries Hydro Inc.

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.

Smart Meter Capital Cost and Operational Expense Data

Smart Meter Installation Plan

Actual/Planned number of Smart Meters installed during the Calendar Year

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast	Total
Residential				0	0	0		0
General Service < 50 kW				285	4,053	304		4642
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	0	285	4053	304	0	4642
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	0.00%	6.14%	93.45%	100.00%	0.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed								0
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	0	285	4053	304	0	4642

1 Capital Costs

1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)

	Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter				321,166	1,357,933	104,207		\$ 1,783,306
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter					109,523	0		\$ 109,523
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)		\$ -	\$ -	\$ -	\$ 321,166	\$ 1,467,457	\$ 104,207	\$ -	\$ 1,892,830

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

	Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.2.1 Collectors	Smart Meter			38,445	71,393				\$ 109,838
1.2.2 Repeaters (may include radio licence, etc.)									\$ -
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)									\$ -
Total Advanced Metering Regional Collector (AMRC) (Includes LAN)		\$ -	\$ -	\$ 38,445	\$ 71,393	\$ -	\$ -	\$ -	\$ 109,838

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	
Computer Hardware				53,085		0		\$ 53,085
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ 53,085	\$ -	\$ -	\$ -	\$ 53,085

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	
Other Equipment								\$ -
Computer Software				5,831	3,075	2,264		\$ 11,170
Computer Hardware				10,204				\$ 10,204
Computer Hardware								\$ -
Computer Software			6,257	9,457	10,545	11,297		\$ 37,556
Computer Software						0		\$ -
	\$ -	\$ -	\$ 6,257	\$ 25,492	\$ 13,620	\$ 13,561	\$ -	\$ 58,930
	\$ -	\$ -	\$ 44,702	\$ 471,136	\$ 1,481,077	\$ 117,768	\$ -	\$ 2,114,683

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								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ 44,702	\$ 471,136	\$ 1,481,077	\$ 117,768	\$ -	\$ 2,114,683

2 OM&A Expenses

2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)

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

2.1.2 Other (please specify)

Total Incremental AMCD OM&A Costs

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

2.2.1 Maintenance

2.2.2 Other (please specify)

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.)

2.3.2 Other (please specify)

Total Incremental AMCC OM&A Costs

2.4 WIDE AREA NETWORK (WAN)

2.4.1 WAN Maintenance

2.4.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.5 OTHER AMI OM&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 AMI 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

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

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

	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				6,297	8,628	8,495	17,394	\$ 40,813
						0		\$ -
								\$ -
	\$ -	\$ -	\$ -	6,297	8,628	8,495	17,394	40,813
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
							1,253	\$ 1,253
				340	3,157	0	2,733	\$ 6,231
							3,758	\$ 3,758
								\$ -
			7	599	0			\$ 606
				68	9,590	1,954	7,829	\$ 19,442
	\$ -	\$ -	\$ 7	\$ 1,007	\$ 12,748	\$ 1,954	\$ 15,573	\$ 31,289
	\$ -	\$ -	\$ 7	\$ 7,304	\$ 21,375	\$ 10,449	\$ 32,967	\$ 72,103
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual		
								\$ -
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ 7	\$ 7,304	\$ 21,375	\$ 10,449	\$ 32,967	\$ 72,103

3 Aggregate Smart Meter Costs by Category

3.1	Capital									
3.1.1	Smart Meter	\$ -	\$ -	\$ 38,445	\$ 392,559	\$ 1,467,457	\$ 104,207	\$ -	\$ 2,002,668	
3.1.2	Computer Hardware	\$ -	\$ -	\$ -	\$ 63,289	\$ -	\$ -	\$ -	\$ 63,289	
3.1.3	Computer Software	\$ -	\$ -	\$ 6,257	\$ 15,288	\$ 13,620	\$ 13,561	\$ -	\$ 48,726	
3.1.4	Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3.1.5	Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3.1.6	Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3.1.7	Total Capital Costs	\$ -	\$ -	\$ 44,702	\$ 471,136	\$ 1,481,077	\$ 117,768	\$ -	\$ 2,114,683	
3.2	OM&A Costs									
3.2.1	Total OM&A Costs	\$ -	\$ -	\$ 7	\$ 7,304	\$ 21,375	\$ 10,449	\$ 32,967	\$ 72,103	



Cambridge and North Dumfries Hydro Inc.

	2006	2007
Cost of Capital		
Capital Structure¹		
Deemed Short-term Debt Capitalization		
Deemed Long-term Debt Capitalization	50.0%	50.0%
Deemed Equity Capitalization	50.0%	50.0%
Preferred Shares		
Total	100.0%	100.0%
Cost of Capital Parameters		
Deemed Short-term Debt Rate		
Long-term Debt Rate (actual/embedded/deemed) ²	6.01%	6.01%
Target Return on Equity (ROE)	9.0%	9.00%
Return on Preferred Shares		
WACC	7.51%	7.51%
Working Capital Allowance		
Working Capital Allowance Rate	15.0%	15.0%
<i>(% of the sum of Cost of Power + controllable expenses)</i>		
Taxes/PILs		
Aggregate Corporate Income Tax Rate	36.12%	36.12%
Capital Tax (until July 1st, 2010)	0.30%	0.225%
Depreciation Rates		
<i>(expressed as expected useful life in years)</i>		
Smart Meters - years	15	15
- rate (%)	6.67%	6.67%
Computer Hardware - years	5	5
- rate (%)	20.00%	20.00%
Computer Software - years	3	3
- rate (%)	33.33%	33.33%

Tools & Equipment - years	10	10
- rate (%)	10.00%	10.00%
Other Equipment - years	10	10
- rate (%)	10.00%	10.00%

CCA Rates

Smart Meters - CCA Class	47	47
Smart Meters - CCA Rate	8%	8%
Computer Equipment - CCA Class	45	50
Computer Equipment - CCA Rate	45%	55%
General Equipment - CCA Class	8	8
General Equipment - CCA Rate	20%	20%
Applications Software - CCA Class		
Applications Software - CCA Rate		

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



2008	2009	2010	2011	2012 and later
0.0% 53.3% 46.7% 100.0%	0.0% 56.7% 43.3% 100.0%	4.0% 56.0% 40.0% 100.0%	4.0% 56.0% 40.0% 100.0%	4.0% 56.0% 40.0% 100.0%
0.00% 6.01% 9.00% 7.41%	0.00% 6.01% 9.00% 7.30%	2.07% 4.99% 9.85% 6.82%	2.07% 4.99% 9.85% 6.82%	2.07% 4.99% 9.85% 6.82%
15.0%	15.0%	15.0%	15.0%	15.0%
33.50% 0.225%	33.00% 0.225%	31.00% 0.075%	28.25% 0.00%	26.25% 0.00%
15 6.67% 5 20.00% 3 33.33%	15 6.67% 5 20.00% 3 33.33%	15 6.67% 5 20.00% 3 33.33%	15 6.67% 5 20.00% 3 33.33%	15 6.67% 5 20.00% 3 33.33%

10	10	10	10	10
10.00%	10.00%	10.00%	10.00%	10.00%
10	10	10	10	10
10.00%	10.00%	10.00%	10.00%	10.00%

47	47	47	47	47
8%	8%	8%	8%	8%

50	50	50	50	50
55%	55%	100%	100%	100%

8	8	8	8	8
20%	20%	20%	20%	20%



Cambridge and North Dumfries Hydro Inc.

	2006	2007	2008	2009	2010	2011
Net Fixed Assets - Smart Meters						
Gross Book Value						
Opening Balance		\$ -	\$ -	\$ 38,445	\$ 431,004	\$ 1,898,461
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ 38,445	\$ 392,559	\$ 1,467,457	\$ 104,207
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ 38,445	\$ 431,004	\$ 1,898,461	\$ 2,002,668
Accumulated Depreciation						
Opening Balance		\$ -	\$ -	-\$ 1,282	-\$ 16,930	-\$ 94,579
Amortization expense during year	\$ -	\$ -	-\$ 1,282	-\$ 15,648	-\$ 77,649	-\$ 130,038
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	-\$ 1,282	-\$ 16,930	-\$ 94,579	-\$ 224,616
Net Book Value						
Opening Balance	\$ -	\$ -	\$ -	\$ 37,164	\$ 414,074	\$ 1,803,882
Closing Balance	\$ -	\$ -	\$ 37,164	\$ 414,074	\$ 1,803,882	\$ 1,778,052
Average Net Book Value	\$ -	\$ -	\$ 18,582	\$ 225,619	\$ 1,108,978	\$ 1,790,967
Net Fixed Assets - Computer Hardware						
Gross Book Value						
Opening Balance		\$ -	\$ -	\$ -	\$ 63,289	\$ 63,289
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 63,289	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	\$ 63,289	\$ 63,289	\$ 63,289
Accumulated Depreciation						
Opening Balance	\$ -	\$ -	\$ -	\$ -	-\$ 6,329	-\$ 18,987
Amortization expense during year	\$ -	\$ -	\$ -	-\$ 6,329	-\$ 12,658	-\$ 12,658
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ -	-\$ 6,329	-\$ 18,987	-\$ 31,645
Net Book Value						
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 56,960	\$ 44,302
Closing Balance	\$ -	\$ -	\$ -	\$ 56,960	\$ 44,302	\$ 31,645
Average Net Book Value	\$ -	\$ -	\$ -	\$ 28,480	\$ 50,631	\$ 37,973
Net Fixed Assets - Computer Software (including Applications Software)						
Gross Book Value						
Opening Balance		\$ -	\$ -	\$ 6,257	\$ 21,545	\$ 35,165
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ 6,257	\$ 15,288	\$ 13,620	\$ 13,561
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	\$ 6,257	\$ 21,545	\$ 35,165	\$ 48,726
Accumulated Depreciation						
Opening Balance	\$ -	\$ -	\$ -	-\$ 1,043	-\$ 5,677	-\$ 15,128
Amortization expense during year	\$ -	\$ -	-\$ 1,043	-\$ 4,634	-\$ 9,452	-\$ 13,982
Retirements/Removals (if applicable)						
Closing Balance	\$ -	\$ -	-\$ 1,043	-\$ 5,677	-\$ 15,128	-\$ 29,110
Net Book Value						
Opening Balance	\$ -	\$ -	\$ -	\$ 5,214	\$ 15,869	\$ 20,037
Closing Balance	\$ -	\$ -	\$ 5,214	\$ 15,869	\$ 20,037	\$ 19,616
Average Net Book Value	\$ -	\$ -	\$ 2,607	\$ 10,541	\$ 17,953	\$ 19,827

Net Fixed Assets - Tools and Equipment

Gross Book Value

Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

Accumulated Depreciation

Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

Net Book Value

Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

Net Fixed Assets - Other Equipment

Gross Book Value

Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

Accumulated Depreciation

Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)						
Closing Balance	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

Net Book Value

Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>



2012 and later

\$	2,002,668
\$	-
\$	2,002,668

-\$	224,616
-\$	133,511
-\$	358,127

\$	1,778,052
\$	1,644,540
\$	1,711,296

\$	63,289
\$	-
\$	63,289

-\$	31,645
-\$	12,658
-\$	44,302

\$	31,645
\$	18,987
\$	25,316

\$	48,726
\$	-
\$	48,726

-\$	29,110
-\$	16,242
-\$	45,352

\$	19,616
\$	3,374
\$	11,495

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-

\$	-
\$	-
\$	-



Ontario Energy Board

Smart Meter Model

Cambridge and North Dumfries Hydro Inc.

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ 18,582	\$ 225,619	\$ 1,108,978	\$ 1,790,967	\$ 1,711,296
Computer Hardware	\$ -	\$ -	\$ -	\$ 28,480	\$ 50,631	\$ 37,973	\$ 25,316
Computer Software	\$ -	\$ -	\$ 2,607	\$ 10,541	\$ 17,953	\$ 19,827	\$ 11,495
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ 21,189	\$ 264,640	\$ 1,177,562	\$ 1,848,767	\$ 1,748,107
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ 7	\$ 7,304	\$ 21,375	\$ 10,449	\$ 32,967
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ 1	\$ 1,096	\$ 3,206	\$ 1,567	\$ 4,945
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ 21,190	\$ 265,736	\$ 1,180,768	\$ 1,850,334	\$ 1,753,052
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 47,231	\$ 74,013	\$ 70,122
Deemed Long Term Debt	\$ -	\$ -	\$ 11,294	\$ 150,672	\$ 661,230	\$ 1,036,187	\$ 981,709
Equity	\$ -	\$ -	\$ 9,896	\$ 115,064	\$ 472,307	\$ 740,134	\$ 701,221
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ 21,190	\$ 265,736	\$ 1,180,768	\$ 1,850,334	\$ 1,753,052
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 978	\$ 1,532	\$ 1,452
Deemed Long Term Debt	\$ -	\$ -	\$ 679	\$ 9,055	\$ 32,995	\$ 51,706	\$ 48,987
Equity	\$ -	\$ -	\$ 891	\$ 10,356	\$ 46,522	\$ 72,903	\$ 69,070
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ 1,569	\$ 19,411	\$ 80,495	\$ 126,141	\$ 119,509
Operating Expenses	\$ -	\$ -	\$ 7	\$ 7,304	\$ 21,375	\$ 10,449	\$ 32,967
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ 1,282	\$ 15,648	\$ 77,649	\$ 130,038	\$ 133,511
Computer Hardware	\$ -	\$ -	\$ -	\$ 6,329	\$ 12,658	\$ 12,658	\$ 12,658
Computer Software	\$ -	\$ -	\$ 1,043	\$ 4,634	\$ 9,452	\$ 13,982	\$ 16,242
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ 2,324	\$ 26,611	\$ 99,758	\$ 156,677	\$ 162,411
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ 3,901	\$ 53,326	\$ 201,629	\$ 293,268	\$ 314,887
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ 7	\$ 7,304	\$ 21,375	\$ 10,449	\$ 32,967
Amortization Expense	\$ -	\$ -	\$ 2,324	\$ 26,611	\$ 99,758	\$ 156,677	\$ 162,411
Interest Expense	\$ -	\$ -	\$ 679	\$ 9,055	\$ 33,973	\$ 53,238	\$ 50,439
Net Income for Taxes/PILs	\$ -	\$ -	\$ 891	\$ 10,356	\$ 46,522	\$ 72,903	\$ 69,070
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ 73.42	\$ 1,757.24	\$ 3,586.84	\$ 27,122.05	\$ 30,324.07
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ 3,974	\$ 51,569	\$ 198,042	\$ 320,390	\$ 345,211



Ontario Energy Board

Smart Meter Model

Cambridge and North Dumfries Hydro Inc.

For PILs Calculation

UCC - Smart Meters

	2006 Audited Actua	2007 Audited Actua	2008 Audited Actua	2009 Audited Actua	2010 Audited Actua	2011 Audited Actua	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ 36,907.20	\$ 410,811.26	\$ 1,786,704.66	\$ 1,743,807.24
Capital Additions	\$ -	\$ -	\$ 38,445.00	\$ 392,559.00	\$ 1,467,456.56	\$ 104,207.24	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ 38,445.00	\$ 429,466.20	\$ 1,878,267.82	\$ 1,890,911.90	\$ 1,743,807.24
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ 19,222.50	\$ 196,279.50	\$ 733,728.28	\$ 52,103.62	\$ -
Reduced UCC	\$ -	\$ -	\$ 19,222.50	\$ 233,186.70	\$ 1,144,539.54	\$ 1,838,808.28	\$ 1,743,807.24
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ 1,537.80	\$ 18,654.94	\$ 91,563.16	\$ 147,104.66	\$ 139,504.58
Closing UCC	\$ -	\$ -	\$ 36,907.20	\$ 410,811.26	\$ 1,786,704.66	\$ 1,743,807.24	\$ 1,604,302.66

UCC - Computer Equipment

	2006 Audited Actua	2007 Audited Actua	2008 Audited Actua	2009 Audited Actua	2010 Audited Actua	2011 Audited Actua	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ 4,536.33	\$ 59,009.67	\$ 6,810.09	\$ 6,780.52
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 63,289.00	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ 6,257.00	\$ 15,288.00	\$ 13,620.18	\$ 13,561.03	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ 6,257.00	\$ 83,113.33	\$ 72,629.85	\$ 20,371.12	\$ 6,780.52
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ 3,128.50	\$ 39,288.50	\$ 6,810.09	\$ 6,780.52	\$ -
Reduced UCC	\$ -	\$ -	\$ 3,128.50	\$ 43,824.83	\$ 65,819.76	\$ 13,590.61	\$ 6,780.52
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	100%	100%	100%
CCA	\$ -	\$ -	\$ 1,720.68	\$ 24,103.65	\$ 65,819.76	\$ 13,590.61	\$ 6,780.52
Closing UCC	\$ -	\$ -	\$ 4,536.33	\$ 59,009.67	\$ 6,810.09	\$ 6,780.52	\$ -

UCC - General Equipment

	2006 Audited Actua	2007 Audited Actua	2008 Audited Actua	2009 Audited Actua	2010 Audited Actua	2011 Audited Actua	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



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	\$ -	\$ -	\$ 890.61	\$ 10,355.73	\$ 46,522.27	\$ 72,903.16	\$ 69,070.24
Amortization	\$ -	\$ -	\$ 2,324.33	\$ 26,610.87	\$ 99,758.32	\$ 156,677.31	\$ 162,411.06
CCA - Smart Meters	\$ -	\$ -	\$ 1,537.80	\$ 18,654.94	\$ 91,563.16	\$ 147,104.66	\$ 139,504.58
CCA - Computers	\$ -	\$ -	\$ 1,720.68	\$ 24,103.65	\$ 65,819.76	\$ 13,590.61	\$ 6,780.52
CCA - Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ 43.53	\$ 5,792.00	\$ 11,102.34	\$ 68,885.21	\$ 85,196.20
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ 14.58	\$ 1,911.36	\$ 3,441.72	\$ 19,460.07	\$ 22,364.00
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ 37,163.50	\$ 414,074.20	\$ 1,803,881.94	\$ 1,778,051.57	\$ 1,644,540.38
Computer Hardware	\$ -	\$ -	\$ -	\$ 56,960.10	\$ 44,302.30	\$ 31,644.50	\$ 18,986.70
Computer Software (Including Application Software)	\$ -	\$ -	\$ 5,214.17	\$ 15,868.50	\$ 20,036.98	\$ 19,616.12	\$ 3,374.05
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ 42,377.67	\$ 486,902.80	\$ 1,868,221.22	\$ 1,829,312.18	\$ 1,666,901.13
Less: Exemption							
Deemed Taxable Capital	\$ -	\$ -	\$ 42,377.67	\$ 486,902.80	\$ 1,868,221.22	\$ 1,829,312.18	\$ 1,666,901.13
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)	\$ -	\$ -	\$ 95.35	\$ 1,095.53	\$ 1,401.17	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ 14.58	\$ 1,911.36	\$ 3,441.72	\$ 19,460.07	\$ 22,364.00
Change in OCT	\$ -	\$ -	\$ 95.35	\$ 1,095.53	\$ 1,401.17	\$ -	\$ -
PILs	\$ -	\$ -	\$ 80.77	\$ 815.83	\$ 2,040.56	\$ 19,460.07	\$ 22,364.00
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ 21.93	\$ 2,852.77	\$ 4,988.01	\$ 27,122.05	\$ 30,324.07
Change in OCT	\$ -	\$ -	\$ 95.35	\$ 1,095.53	\$ 1,401.17	\$ -	\$ -
PILs	\$ -	\$ -	\$ 73.42	\$ 1,757.24	\$ 3,586.84	\$ 27,122.05	\$ 30,324.07





Ontario Energy Board

Smart Meter Model

Cambridge and North Dumfries Hydro Inc.

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	Board Approved Smart Meter Funding Adder (from Tariff)
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	\$ -	\$ 727.64	4.14%	\$ -	\$ 727.64		\$ 0.27
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ 727.64	\$ 1,049.52	4.59%	\$ 2.78	\$ 1,779.94		\$ 0.27
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ 1,777.16	\$ 1,225.29	4.59%	\$ 6.80	\$ 3,009.25		\$ 0.27
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ 3,002.45	\$ 1,140.20	4.59%	\$ 11.48	\$ 4,154.13		\$ 0.27
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ 4,142.65	\$ 1,186.55	4.59%	\$ 15.85	\$ 5,345.05		\$ 0.27
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ 5,329.20	\$ 1,222.75	4.59%	\$ 20.38	\$ 6,572.33		\$ 0.27
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ 6,551.95	\$ 1,143.09	4.59%	\$ 25.06	\$ 7,720.10	\$ 7,777.39	\$ 0.27
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ 7,695.04	\$ 1,184.42	4.59%	\$ 29.43	\$ 8,908.89		\$ 0.27
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ 8,879.46	\$ 1,200.90	4.59%	\$ 33.96	\$ 10,114.32		\$ 0.27
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ 10,080.36	\$ 1,188.30	4.59%	\$ 38.56	\$ 11,307.22		\$ 0.27
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ 11,268.66	\$ 1,201.31	4.59%	\$ 43.10	\$ 12,513.07		\$ 0.27
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ 12,469.97	\$ 1,195.92	4.59%	\$ 47.70	\$ 13,713.59		\$ 0.27
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ 13,665.89	\$ 1,209.14	4.59%	\$ 52.27	\$ 14,927.30		\$ 0.27
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ 14,875.03	\$ 1,196.62	4.59%	\$ 56.90	\$ 16,128.55		\$ 0.27
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ 16,071.65	\$ 1,244.19	4.59%	\$ 61.47	\$ 17,377.31		\$ 0.27
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ 17,315.84	\$ 1,156.67	4.59%	\$ 66.23	\$ 18,538.74		\$ 0.27
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ 18,472.51	\$ 1,211.76	5.14%	\$ 79.12	\$ 19,763.39		\$ 0.27
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ 19,684.27	\$ 1,258.29	5.14%	\$ 84.31	\$ 21,026.87		\$ 0.27
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ 20,942.56	\$ 1,156.47	5.14%	\$ 89.70	\$ 22,188.73	\$ 15,086.74	\$ 0.27
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ 22,099.03	\$ 1,214.62	5.14%	\$ 94.66	\$ 23,408.31		\$ 0.27
2012 Q2		4.29%	Feb-08	2008	Q1	\$ 23,313.65	\$ 1,236.32	5.14%	\$ 99.86	\$ 24,649.83		\$ 0.27
2012 Q3		4.29%	Mar-08	2008	Q1	\$ 24,549.97	\$ 1,213.38	5.14%	\$ 105.16	\$ 25,868.51		\$ 0.27
2012 Q4		4.29%	Apr-08	2008	Q2	\$ 25,763.35	\$ 1,240.16	4.08%	\$ 87.60	\$ 27,091.11		\$ 0.27
			May-08	2008	Q2	\$ 27,003.51	\$ 1,222.53	4.08%	\$ 91.81	\$ 28,317.85		\$ 0.27
			Jun-08	2008	Q2	\$ 28,226.04	\$ 1,238.54	4.08%	\$ 95.97	\$ 29,560.55		\$ 0.27
			Jul-08	2008	Q3	\$ 29,464.58	\$ 1,266.08	3.35%	\$ 82.26	\$ 30,812.92		\$ 0.27
			Aug-08	2008	Q3	\$ 30,730.66	\$ 1,200.40	3.35%	\$ 85.79	\$ 32,016.85		\$ 0.27
			Sep-08	2008	Q3	\$ 31,931.06	\$ 1,221.96	3.35%	\$ 89.14	\$ 33,242.16		\$ 0.27
			Oct-08	2008	Q4	\$ 33,153.02	\$ 1,294.94	3.35%	\$ 92.55	\$ 34,540.51		\$ 0.27
			Nov-08	2008	Q4	\$ 34,447.96	\$ 1,170.34	3.35%	\$ 96.17	\$ 35,714.47		\$ 0.27
			Dec-08	2008	Q4	\$ 35,618.30	\$ 1,235.03	3.35%	\$ 99.43	\$ 36,952.76	\$ 15,874.70	\$ 0.27
			Jan-09	2009	Q1	\$ 36,853.33	\$ 1,214.80	2.45%	\$ 75.24	\$ 38,143.37		\$ 0.27
			Feb-09	2009	Q1	\$ 38,068.13	\$ 1,244.66	2.45%	\$ 77.72	\$ 39,390.51		\$ 0.27
			Mar-09	2009	Q1	\$ 39,312.79	\$ 1,209.52	2.45%	\$ 80.26	\$ 40,602.57		\$ 0.27
			Apr-09	2009	Q2	\$ 40,522.31	\$ 1,245.08	1.00%	\$ 33.77	\$ 41,801.16		\$ 0.27
			May-09	2009	Q2	\$ 41,767.39	\$ 1,503.95	1.00%	\$ 34.81	\$ 43,306.15		\$ 1.00
			Jun-09	2009	Q2	\$ 43,271.34	\$ 3,071.78	1.00%	\$ 36.06	\$ 46,379.18		\$ 1.00
			Jul-09	2009	Q3	\$ 46,343.12	\$ 4,273.96	0.55%	\$ 21.24	\$ 50,638.32		\$ 1.00
			Aug-09	2009	Q3	\$ 50,617.08	\$ 4,607.76	0.55%	\$ 23.20	\$ 55,248.04		\$ 1.00
			Sep-09	2009	Q3	\$ 55,224.84	\$ 4,479.72	0.55%	\$ 25.31	\$ 59,729.87		\$ 1.00
			Oct-09	2009	Q4	\$ 59,704.56	\$ 4,634.19	0.55%	\$ 27.36	\$ 64,366.11		\$ 1.00
			Nov-09	2009	Q4	\$ 64,338.75	\$ 4,495.97	0.55%	\$ 29.49	\$ 68,864.21		\$ 1.00
			Dec-09	2009	Q4	\$ 68,834.72	\$ 4,626.68	0.55%	\$ 31.55	\$ 73,492.95	\$ 37,104.08	\$ 1.00
			Jan-10	2010	Q1	\$ 73,461.40	\$ 3,927.89	0.55%	\$ 33.67	\$ 77,422.96		\$ 1.00
			Feb-10	2010	Q1	\$ 77,389.29	\$ 4,703.40	0.55%	\$ 35.47	\$ 82,128.16		\$ 1.00
			Mar-10	2010	Q1	\$ 82,092.69	\$ 4,510.69	0.55%	\$ 37.63	\$ 86,641.01		\$ 1.00
			Apr-10	2010	Q2	\$ 86,603.38	\$ 4,908.09	0.55%	\$ 39.69	\$ 91,551.16		\$ 1.00
			May-10	2010	Q2	\$ 91,511.47	\$ 4,115.17	0.55%	\$ 41.94	\$ 95,668.58		\$ 1.00
			Jun-10	2010	Q2	\$ 95,626.64	\$ 5,084.16	0.55%	\$ 43.83	\$ 100,754.63		\$ 1.00
			Jul-10	2010	Q3	\$ 100,710.80	\$ 4,300.01	0.89%	\$ 74.69	\$ 105,085.50		\$ 1.00
			Aug-10	2010	Q3	\$ 105,010.81	\$ 4,920.16	0.89%	\$ 77.88	\$ 110,008.85		\$ 1.00
			Sep-10	2010	Q3	\$ 109,930.97	\$ 4,311.66	0.89%	\$ 81.53	\$ 114,324.16		\$ 1.00
			Oct-10	2010	Q4	\$ 114,242.63	\$ 4,708.70	1.20%	\$ 114.24	\$ 119,065.57		\$ 1.00
			Nov-10	2010	Q4	\$ 118,951.33	\$ 4,478.21	1.20%	\$ 118.95	\$ 123,548.49		\$ 1.00
			Dec-10	2010	Q4	\$ 123,429.54	\$ 4,898.63	1.20%	\$ 123.43	\$ 128,451.60	\$ 55,689.72	\$ 1.00
			Jan-11	2011	Q1	\$ 128,328.17	\$ 4,288.12	1.47%	\$ 157.20	\$ 132,773.49		\$ 1.00
			Feb-11	2011	Q1	\$ 132,616.29	\$ 4,670.45	1.47%	\$ 162.45	\$ 137,449.19		\$ 1.00
			Mar-11	2011	Q1	\$ 137,286.74	\$ 4,565.98	1.47%	\$ 168.18	\$ 142,020.90		\$ 1.00
			Apr-11	2011	Q2	\$ 141,852.72	\$ 4,621.21	1.47%	\$ 173.77	\$ 146,647.70		\$ 1.00
			May-11	2011	Q2	\$ 146,473.93	\$ 4,098.04	1.47%	\$ 179.43	\$ 150,751.40		\$ 1.61
			Jun-11	2011	Q2	\$ 150,571.97	\$ 6,333.32	1.47%	\$ 184.45	\$ 157,089.74		\$ 1.61
			Jul-11	2011	Q3	\$ 156,905.29	\$ 5,473.74	1.47%	\$ 192.21	\$ 162,571.24		\$ 1.61
			Aug-11	2011	Q3	\$ 162,379.03	\$ 9,901.88	1.47%	\$ 198.91	\$ 172,479.82		\$ 1.61
			Sep-11	2011	Q3	\$ 172,280.91	\$ 7,736.21	1.47%	\$ 211.04	\$ 180,228.16		\$ 1.61
			Oct-11	2011	Q4	\$ 180,017.12	\$ 7,084.60	1.47%	\$ 220.52	\$ 187,322.24		\$ 1.61
			Nov-11	2011	Q4	\$ 187,101.72	\$ 8,070.40	1.47%	\$ 229.20	\$ 195,401.32		\$ 1.61
			Dec-11	2011	Q4	\$ 195,172.12	\$ 7,101.57	1.47%	\$ 239.09	\$ 202,512.78	\$ 76,261.97	\$ 1.61
			Jan-12	2012	Q1	\$ 202,273.69	\$ 8,422.98	1.47%	\$ 247.79	\$ 210,944.46		\$ 1.61
			Feb-12	2012	Q1	\$ 210,696.67	\$ 7,557.92	1.47%	\$ 258.10	\$ 218,512.69		\$ 1.61



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				Board Approved Smart
			Date	Year	Quarter	(Principal)	Revenues	Rate	Interest	Closing Balance	Annual amounts	Meter Funding Adder (from Tariff)
			Mar-12	2012	Q1	\$ 218,254.59	\$ 9,096.19	1.47%	\$ 267.36	\$ 227,618.14		\$ 1.61
			Apr-12	2012	Q2	\$ 227,350.78	\$ 9,200.00	1.47%	\$ 278.50	\$ 236,829.28		\$ 1.61
			May-12	2012	Q2	\$ 236,550.78	\$ -	0.00%	\$ -	\$ 236,550.78		
			Jun-12	2012	Q2	\$ 236,550.78	\$ -	0.00%	\$ -	\$ 236,550.78		
			Jul-12	2012	Q3	\$ 236,550.78	\$ -	0.00%	\$ -	\$ 236,550.78		
			Aug-12	2012	Q3	\$ 236,550.78	\$ -	0.00%	\$ -	\$ 236,550.78		
			Sep-12	2012	Q3	\$ 236,550.78	\$ -	0.00%	\$ -	\$ 236,550.78		
			Oct-12	2012	Q4	\$ 236,550.78	\$ -	0.00%	\$ -	\$ 236,550.78		
			Nov-12	2012	Q4	\$ 236,550.78	\$ -	0.00%	\$ -	\$ 236,550.78		
			Dec-12	2012	Q4	\$ 236,550.78	\$ -	0.00%	\$ -	\$ 236,550.78	\$ 35,328.84	
Total Funding Adder Revenues Collected						\$ 236,550.78			\$ 6,572.66	\$ 243,123.44	\$ 243,123.44	



Cambridge and North Dumfries Hydro Inc.

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	0.00%	4.29%		Feb-08	2008	Q1	-
2012 Q3	0.00%	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	-
				Mar-09	2009	Q1	-
				Apr-09	2009	Q2	-
				May-09	2009	Q2	-
				Jun-09	2009	Q2	-
				Jul-09	2009	Q3	-
				Aug-09	2009	Q3	-
				Sep-09	2009	Q3	-
				Oct-09	2009	Q4	-
				Nov-09	2009	Q4	-
				Dec-09	2009	Q4	-
				Jan-10	2010	Q1	-
				Feb-10	2010	Q1	-
				Mar-10	2010	Q1	-
				Apr-10	2010	Q2	-
				May-10	2010	Q2	-
				Jun-10	2010	Q2	-
				Jul-10	2010	Q3	-
				Aug-10	2010	Q3	-
				Sep-10	2010	Q3	-
				Oct-10	2010	Q4	-
				Nov-10	2010	Q4	-
				Dec-10	2010	Q4	-
				Jan-11	2011	Q1	-
				Feb-11	2011	Q1	-
				Mar-11	2011	Q1	-
				Apr-11	2011	Q2	-
				May-11	2011	Q2	-
				Jun-11	2011	Q2	-
				Jul-11	2011	Q3	-
				Aug-11	2011	Q3	-
				Sep-11	2011	Q3	-
				Oct-11	2011	Q4	-
				Nov-11	2011	Q4	-
				Dec-11	2011	Q4	-

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



preciation expense, based on monthly data.

ib-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%	-	-
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		-	5.14%	-	-
		-	5.14%	-	-

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