



CAMBRIDGE AND NORTH DUMFRIES HYDRO INC.
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May 29, 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.
Responses to VECC Interrogatories
2012 Smart Meter Cost Recovery Application – Final Disposition
EB-2012-0086**

Attached please find Cambridge and North Dumfries Hydro Inc. ("CND") 2012 Smart Meter Cost Recovery Application responses to VECC interrogatories.

The responses have been filed electronically through the RESS system, submitted electronically to VECC and to Board staff, and two paper copies have been forwarded to your attention via courier.

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.

John W. Grotheer
President and CEO

Information Requests of the Vulnerable Energy Consumers Coalition (VECC)

VECC Question # 1

Reference: 1.0 Application, Page 3

Preamble: CND indicates that TOU billing was required to be in place for all Residential and GS<50 kW customers by February 1, 2012 but due to delays with the implementation of EnergyIPr7.2 by the IESO, CND is currently unable to bill customers at TOU rates. CND will be able to do so once the IESO is ready.

- a) Please discuss the nature of the delays and provide a status update on CND's plan and timing regarding implementation of TOU billing.

RESPONSE

Please see CND's response to Board staff Interrogatory 5 a) and b).

VECC Question # 2

Reference: 2.0 Manager's Summary, Page 6

Preamble: On Page 6, CND indicates it has applied for approval of capital expenditures of \$8,177,996 and total OM&A costs of \$1,081,766 related to its smart meter deployment.

- a) CND's smart meter recovery model (Sheet 2) indicates total OM&A costs of \$1,283,726. Please reconcile.

RESPONSE

The reference on Page 6 to \$1,081,766 is incorrect. CND's application should have requested approval of total OM&A costs of \$1,283,726.

VECC Question # 3

Reference: 2.0 Manager's Summary, Page 7

Preamble: CND indicates that it has initially identified \$155,000 per year in savings from no longer requiring residential and GS<50 kW customer meters to be read.

- a) Please discuss how these savings are being accounted for in this application.

RESPONSE

CND has not accounted for the savings in this application. CND initially identified \$155,000 in savings, specifically related to no longer manually reading meters as these readings will be taken electronically by the smart meters.

Please see CND's response to Board staff interrogatory 3.

VECC Question # 4

Reference: 3.0 Smart Meter Program Status, Page 8

Preamble: Table 1 provides the program status both from the number of meters installed and the financial perspective.

- a) Please provide a schedule that compares the smart meter financial forecasts in CND's previous applications to the current application and explain any variances.

RESPONSE

CND applied for a specific Smart Meter Funding Adder as part of its May 1, 2011 IRM rate application (EB-2010-0068). This application included forecast figures for 2011. The table below shows the forecasted capital and OM&A expenses compared to the actual expenditures as included in the current application.

Prior to the 2011 IRM Application noted above, CND requested only the standard smart meter funding adder of \$1.00 per metered customer per month. This \$1.00 charge, approved in EB-2008-0164 was applicable for the rates period May 1, 2009 to April 30, 2011. No specific forecast data was required as only the standard funding adder was requested and approved.

Prior to May 1, 2009, CND also requested and was granted approval of the standard smart meter funding adder amounts of \$.30 for the period May 1, 2006 to April 30, 2007 and \$.27 for the period May 1, 2007 to April 30, 2009. No forecast data was required in these previous applications.

CND 2011 IRM Rate Application Filed October 29, 2010 EB-2010-0068					
Compared to the current Smart Meter Cost Recovery Application EB-2012-0086.					
<u>CAPITAL</u>	<u>2011</u>	<u>2011</u>		<u>Variance</u>	
	<u>Forecasted</u>	<u>Actual</u>			
TOTAL CAPITAL COSTS	\$316,133	\$455,405		(\$139,272)	
<u>OM&A</u>				overspent	
TOTAL OM&A COSTS	\$318,472	\$114,199		\$204,273	
				underspent	
<u>Explanation:</u>					
While the actual 2011 capital expenditures were in excess of the 2011 forecast,					
the actual 2011 OM&A costs were significantly less than the forecasted amount.					
CDN had thought that certain expenditures were OM&A in nature but upon					
subsequent examination, determined they were capital.					

b) Please complete the following table to show average costs based on meter type.

Class	Type of Meter	Quantity	Meter Cost	Average Meter Cost	Installation Cost	Average Installation Cost	Other Costs ***	Average Other Costs	Total Costs	Total Average Cost
Residential	2S	43,467	\$2,963,145.39	\$68.17						
	3S	400	\$56,020.00	\$140.05						
	12S	2,200	\$323,730.00	\$147.15						
	total	46,067	\$3,342,895.39		\$730,511.60	\$15.86	\$1,988,919.61	\$43.17	\$6,062,326.60	\$131.60
GS<50 kW	3-phase	3,250	\$1,614,827.50	\$496.87						
	single-phase	1,392	\$94,892.64	\$68.17						
	total	4,642	\$1,709,720.14		\$151,391.60	\$32.61	\$253,571.49	\$54.63	\$2,114,683.23	\$455.55
GRAND TOTAL		50,709	\$5,052,615.53		\$881,903.20		\$2,242,491.10		\$8,177,009.83	\$161.25
*** other costs includes ancillary equipment, network infrastructure, pre-implementation costs and other AMI costs.										

CND has prepared the table above based on their available financial data.

Costs were segregated to the extent possible between Residential and General Service <50 kW customers. Direct purchases of types of meters were recorded by customer class to determine meter costs and average meter costs. Other direct costs were recorded by customer class but were not recorded by meter type.

VECC Question # 5

Reference: Smart Meter Recovery Model

- a) Sheet 2 shows smart meter installations in 2009, 2010 and 2011, smart meter capital costs (1.1.1) for 2009, 2010 and 2011, whereas installation costs (1.1.2) are shown for 2010 only. Please explain.

RESPONSE

In 2009 and 2011 installation costs were included as part of smart meter capital costs line 1.1.1.

VECC Question # 6

Reference: 5.0 Smart Meter Procurement Process, Page 8

Preamble: CND indicates its own staff completed the more complex General Service meter conversions.

- a) Please discuss how the above cost is accounted for in this application.

RESPONSE

CND recorded such costs as part of the capital installation costs of Residential and General Service <50 kW meters.

- b) Please provide a summary of incremental internal labour costs incurred by CND to deploy smart meters in terms of positions, contract type (permanent vs. temporary, part-time vs. full-time), length of employment and work activities.

RESPONSE

A certain portion of the installation of Smart Meters work was performed by permanent, full-time CND meter department staff.

CND internal labour installation costs of \$344,869.60 are included in the Residential customer class and \$128,929.60 are included in the general Service <50 kW customer class.

The costs of such CND employees were excluded from the 2010 Cost of Service Application (EB- 2009-0260) and therefore are appropriately included for recovery in this smart meter application. Exhibit 4, Page 15 of 172 of that Application states that 'Smart Meter costs are not reflected in the Metering Expense as they have been included in the appropriate Smart Meter OM&A Variance Account (#1556).' Exhibit 2, Page 91 of 156 which includes a table of 2010 to 2012 Capital Plans, specifically excludes Smart Meters.

The labour costs applied for in relation to CND staff included in this Application include incremental overtime to install Smart Meters for General Service <50 kW customers who were not willing or able to accommodate the installation during regular working hours. CND staff was also required for the more complex installations of Smart Meters for this customer class. CND staff also installed Smart Meters for Residential customers who were hard to reach customers, had complex metering requirements or were not available during regular working hours.

VECC Question # 7

Reference: 10.0 Smart Meter Incremental Rate Rider Calculation (SMIRR), Page 14

Preamble: CND indicates it has included the monthly Smart Meter Charge of \$.81 that the IESO applied to the OEB to recover.

- a) Please discuss the rationale for including this charge.

RESPONSE

Please see CND's response to Board staff interrogatory 6

- b) Please provide the total cost and line item where this amount is reflected in the current application.

RESPONSE

Please see CND's response to Board staff interrogatory 6.

In Table 9 2012 OM&A Costs, CND has indicated line 2.5.6 Other AMI Expenses of \$581,280. The comment to the Table indicates that Other AMI Expenses includes MDM/R fees. This is where the monthly Smart Meter Charge of \$.81 that the IESO has applied to the OEB to recover has been reflected in the current application. The total cost is \$495,720.

VECC Question # 8

Reference: 10.0 Smart Meter Incremental Rate Rider Calculation (SMIRR), Table 9 2012 OM&A Costs, Page 15

- a) As part of Table 9, CND provides a breakdown of Other AMI Expenses. Please explain AMI Test Environment (Powerstream Test RNI).

RESPONSE

Please see CND's answer to Board staff Interrogatory 6 a) for the breakdown of Other AMI Expenses.

AMI Test Environment: CND utilizes Sensus Smart Meter technology. Like most LDCs in Ontario, CND installed a primary environment but with no capability of testing new software releases, meter types and so on before putting them into production. PowerStream installed and configured a Test Environment in which multiple Sensus LDCs in Ontario share the cost. The Test Environment allows LDCs to ensure that new software releases, new meter types and new functionality all work properly before they go into the live production system. By sharing costs, CND has realized significant savings over having to install their own test environment.

VECC Question # 9

Reference 1: Smart Meter Model (V2_17)

Preamble: COLLUS completed the Smart Meter Model provided by the OEB and used the data to arrive at the proposed Smart Meter Incremental Rate Rider and the proposed Smart Meter Disposition Rate Rider.

Reference 2: Board Guideline G-2011-0001, Smart Meter Funding and Cost Recovery – Final Disposition, dated December 15, 2011, Page 19

Preamble: The Guideline states, "The Board views that, where practical and where data is available, class specific SMDRs should be calculated on full cost causality."

- a) Please provide the rationale for CND's proposed cost allocation methodology.

RESPONSE

CND canvassed a number of other utilities' smart meter cost recovery applications. The allocation methodology that CND selected appeared to be both practical and one that CND had data available to support.

- b) Please complete a separate smart meter revenue requirement model by rate class.

RESPONSE

Please see separate smart meter revenue requirement models for

Residential (Appendix A) and
General Service <50 kW (Appendix B)

Both models applied a long term debt rate of 6.01% for the years 2006 to 2009 as indicated in Board staff interrogatory 8.

- c) Please re-calculate the SMDR & SMIRR rate riders based on cost causality by rate class.

RESPONSE

The recalculated SMDR by Rate Class are as follows:

Residential: \$(.40) per month for 22 months
= -\$407,821.01 / 46,067 customers / 22 months)

General Service <50: \$3.28 per month for 22 months
= (\$335,430.87 / 4,642 customers / 22 months)

The recalculated SMIRR by Rate Class are as follows:

Residential: \$1.66 per month for 22 months
= \$1,681,212.15 / 46,067 customers / 22 months.

General Service < 50: \$3.83 per month for 22 months
= \$391,165.16 / 4,642 customers / 22 months.

- d) Please provide a table that summarizes the total Smart Meter Rate Adder Revenue collected by customer class.

RESPONSE

Please see the Table below which is CND's estimation of the total Smart Meter Rate Adder Revenue collected by customer class.

Cambridge and North Dumfries Hydro Inc.
Smart Meter Cost Recovery Application
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Filed: June 1, 2012
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SMART METER RATE ADDER REVENUE COLLECTED BY CUSTOMER CLASS						
Month	Year	Total	Residential	GS<50	Other	Total
June	2006	\$5,948.57	\$5,220.93	\$727.64	\$0.00	\$5,948.57
July	2006	\$11,259.88	\$10,023.59	\$1,049.52	\$186.77	\$11,259.88
August	2006	\$13,331.09	\$11,916.68	\$1,225.29	\$189.12	\$13,331.09
September	2006	\$12,382.03	\$11,055.03	\$1,140.20	\$186.80	\$12,382.03
October	2006	\$12,752.32	\$11,378.29	\$1,186.55	\$187.48	\$12,752.32
November	2006	\$13,722.44	\$12,311.46	\$1,222.75	\$188.23	\$13,722.44
December	2006	\$12,190.40	\$10,857.16	\$1,143.09	\$190.15	\$12,190.40
SUBTOTAL		\$81,586.73	\$72,763.14	\$7,695.04	\$1,128.55	\$81,586.73
January	2007	\$13,302.95	\$11,928.65	\$1,184.42	\$189.88	\$13,302.95
February	2007	\$12,840.62	\$11,447.72	\$1,200.90	\$192.00	\$12,840.62
March	2007	\$13,337.47	\$11,957.25	\$1,188.30	\$191.92	\$13,337.47
April	2007	\$12,805.23	\$11,413.83	\$1,201.31	\$190.09	\$12,805.23
May	2007	\$13,399.27	\$12,012.71	\$1,195.92	\$190.64	\$13,399.27
June	2007	\$12,819.77	\$11,419.98	\$1,209.14	\$190.65	\$12,819.77
July	2007	\$13,362.81	\$11,974.91	\$1,196.62	\$191.28	\$13,362.81
August	2007	\$13,439.51	\$12,003.86	\$1,244.19	\$191.46	\$13,439.51
September	2007	\$12,728.90	\$11,381.54	\$1,156.67	\$190.69	\$12,728.90
October	2007	\$12,778.15	\$11,374.61	\$1,211.76	\$191.78	\$12,778.15
November	2007	\$14,663.43	\$13,213.34	\$1,258.29	\$191.80	\$14,663.43
December	2007	\$11,519.79	\$10,171.58	\$1,156.47	\$191.74	\$11,519.79
SUBTOTAL		\$156,997.90	\$140,299.98	\$14,403.99	\$2,293.93	\$156,997.90
January	2008	\$13,451.80	\$12,047.27	\$1,214.62	\$189.91	\$13,451.80
February	2008	\$12,869.84	\$11,443.10	\$1,236.32	\$190.42	\$12,869.84
March	2008	\$13,462.14	\$12,058.89	\$1,213.38	\$189.87	\$13,462.14
April	2008	\$12,898.11	\$11,468.33	\$1,240.16	\$189.62	\$12,898.11
May	2008	\$13,479.94	\$12,067.37	\$1,222.53	\$190.04	\$13,479.94
June	2008	\$12,904.41	\$11,475.59	\$1,238.54	\$190.28	\$12,904.41
July	2008	\$14,058.56	\$12,601.14	\$1,266.08	\$191.34	\$14,058.56
August	2008	\$12,282.61	\$10,891.00	\$1,200.40	\$191.21	\$12,282.61
September	2008	\$13,478.54	\$12,069.78	\$1,221.96	\$186.80	\$13,478.54
October	2008	\$13,517.65	\$12,027.16	\$1,294.94	\$195.55	\$13,517.65
November	2008	\$12,830.00	\$11,467.72	\$1,170.34	\$191.94	\$12,830.00
December	2008	\$12,881.96	\$11,455.70	\$1,235.03	\$191.23	\$12,881.96
SUBTOTAL		\$158,115.56	\$141,073.05	\$14,754.30	\$2,288.21	\$158,115.56
January	2009	\$13,492.44	\$12,079.05	\$1,214.80	\$198.59	\$13,492.44
February	2009	\$12,950.58	\$11,507.48	\$1,244.66	\$198.44	\$12,950.58
March	2009	\$13,614.22	\$12,207.04	\$1,209.52	\$197.66	\$13,614.22
April	2009	\$13,063.22	\$11,620.88	\$1,245.08	\$197.26	\$13,063.22
May	2009	\$14,515.05	\$12,685.46	\$1,503.95	\$325.64	\$14,515.05
June	2009	\$29,612.93	\$25,811.50	\$3,071.78	\$729.65	\$29,612.93
July	2009	\$47,641.87	\$42,634.14	\$4,273.96	\$733.77	\$47,641.87
August	2009	\$48,571.89	\$43,226.30	\$4,607.76	\$737.83	\$48,571.89
September	2009	\$50,239.15	\$45,026.29	\$4,479.72	\$733.14	\$50,239.15
October	2009	\$48,984.55	\$43,618.42	\$4,634.19	\$731.94	\$48,984.55
November	2009	\$50,295.98	\$45,064.31	\$4,495.97	\$735.70	\$50,295.98
December	2009	\$49,276.46	\$43,914.18	\$4,626.68	\$735.60	\$49,276.46
SUBTOTAL		\$392,258.34	\$349,395.05	\$36,608.07	\$6,255.22	\$392,258.34
January	2010	\$43,946.09	\$39,267.73	\$3,927.89	\$750.47	\$43,946.09
February	2010	\$46,395.05	\$40,981.59	\$4,703.40	\$710.06	\$46,395.05
March	2010	\$53,866.70	\$48,640.18	\$4,510.69	\$715.83	\$53,866.70
April	2010	\$48,866.73	\$43,245.11	\$4,908.09	\$713.53	\$48,866.73
May	2010	\$45,979.77	\$41,153.66	\$4,115.17	\$710.94	\$45,979.77
June	2010	\$54,553.56	\$48,755.69	\$5,084.16	\$713.71	\$54,553.56
July	2010	\$51,389.09	\$46,376.48	\$4,300.01	\$712.60	\$51,389.09
August	2010	\$49,175.35	\$43,541.87	\$4,920.16	\$713.32	\$49,175.35
September	2010	\$51,629.70	\$46,604.65	\$4,311.66	\$713.39	\$51,629.70
October	2010	\$46,764.24	\$41,339.37	\$4,708.70	\$716.17	\$46,764.24
November	2010	\$53,904.81	\$48,708.95	\$4,478.21	\$717.65	\$53,904.81
December	2010	\$49,184.69	\$43,567.89	\$4,898.63	\$718.17	\$49,184.69
SUBTOTAL		\$595,655.78	\$532,183.17	\$54,866.77	\$8,605.84	\$595,655.78
January	2011	\$51,831.41	\$46,792.48	\$4,288.12	\$750.81	\$51,831.41
February	2011	\$47,379.20	\$41,958.97	\$4,670.45	\$749.78	\$47,379.20
March	2011	\$56,749.56	\$51,431.32	\$4,565.98	\$752.26	\$56,749.56
April	2011	\$45,213.39	\$39,846.76	\$4,621.21	\$745.42	\$45,213.39
May	2011	\$44,543.94	\$39,644.11	\$4,098.04	\$801.79	\$44,543.94
June	2011	\$68,840.40	\$61,267.96	\$6,333.32	\$1,239.12	\$68,840.40
July	2011	\$59,497.16	\$52,952.47	\$5,473.74	\$1,070.95	\$59,497.16
August	2011	\$107,629.14	\$95,789.93	\$9,901.88	\$1,937.33	\$107,629.14
September	2011	\$84,089.21	\$74,839.40	\$7,736.21	\$1,513.60	\$84,089.21
October	2011	\$77,006.55	\$68,535.83	\$7,084.60	\$1,386.12	\$77,006.55
November	2011	\$87,721.70	\$78,072.31	\$8,070.40	\$1,578.99	\$87,721.70
December	2011	\$77,190.94	\$68,699.94	\$7,101.57	\$1,389.43	\$77,190.94
SUBTOTAL		\$807,692.60	\$719,831.48	\$73,945.52	\$13,915.60	\$807,692.60
January	2012	\$91,554.11	\$81,666.27	\$8,422.98	\$1,464.86	\$91,554.11
February	2012	\$82,151.28	\$73,278.94	\$7,557.92	\$1,314.42	\$82,151.28
March	2012	\$98,871.65	\$88,193.51	\$9,096.19	\$1,581.95	\$98,871.65
April	2012	\$100,000.00	\$89,200.00	\$9,200.00	\$1,600.00	\$100,000.00
SUBTOTAL		\$372,577.04	\$332,338.72	\$34,277.09	\$5,961.23	\$372,577.04
GRAND TOTAL		\$2,564,883.95	\$2,287,884.59	\$236,550.78	\$40,448.58	\$2,564,883.95

EXHIBIT A

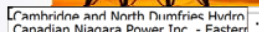
RESPONSE TO VECC BOARD 9 b) Residential Model

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

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	528,057	\$ 643,360
	\$ -	\$ -	\$ 69	\$ 9,994	\$ 126,578	\$ 19,403	\$ 604,948	\$ 760,992
	\$ -	\$ -	\$ 69	\$ 72,519	\$ 212,241	\$ 103,750	\$ 777,649	\$ 1,166,229
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual		
								\$ -
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ 69	\$ 72,519	\$ 212,241	\$ 103,750	\$ 777,649	\$ 1,166,229

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	\$ 777,649	\$ 1,166,229	



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	\$ 777,649
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ 10	\$ 10,878	\$ 31,836	\$ 15,563	\$ 116,647
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ 60,758	\$ 769,596	\$ 3,407,676	\$ 5,315,541	\$ 5,128,062
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 136,307	\$ 212,622	\$ 205,122
Deemed Long Term Debt	\$ -	\$ -	\$ 32,384	\$ 436,361	\$ 1,908,299	\$ 2,976,703	\$ 2,871,715
Equity	\$ -	\$ -	\$ 28,374	\$ 333,235	\$ 1,363,071	\$ 2,126,216	\$ 2,051,225
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ 60,758	\$ 769,596	\$ 3,407,676	\$ 5,315,541	\$ 5,128,062
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 2,822	\$ 4,401	\$ 4,246
Deemed Long Term Debt	\$ -	\$ -	\$ 1,946	\$ 26,225	\$ 95,224	\$ 148,537	\$ 143,299
Equity	\$ -	\$ -	\$ 2,554	\$ 29,991	\$ 134,262	\$ 209,432	\$ 202,046
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ 4,500	\$ 56,216	\$ 232,308	\$ 362,371	\$ 349,590
Operating Expenses	\$ -	\$ -	\$ 69	\$ 72,519	\$ 212,241	\$ 103,750	\$ 777,649
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	\$ 1,592,841
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ 69	\$ 72,519	\$ 212,241	\$ 103,750	\$ 777,649
Amortization Expense	\$ -	\$ -	\$ 6,664	\$ 76,293	\$ 285,991	\$ 449,163	\$ 465,601
Interest Expense	\$ -	\$ -	\$ 1,946	\$ 26,225	\$ 98,046	\$ 152,939	\$ 147,545
Net Income for Taxes/PILs	\$ -	\$ -	\$ 2,554	\$ 29,991	\$ 134,262	\$ 209,432	\$ 202,046
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ 210.60	\$ 4,889.55	\$ 9,885.42	\$ 77,925.87	\$ 88,371.17
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ 11,444	\$ 200,139	\$ 720,655	\$ 993,210	\$ 1,681,212



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	\$ 202,045.66
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	\$ 248,280.91
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	\$ 65,173.74
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	\$ 65,173.74
Change in OCT	\$ -	\$ -	\$ 273.37	\$ 3,140.86	\$ 4,016.81	\$ -	\$ -
PILs	\$ -	\$ -	\$ 231.63	\$ 2,239.52	\$ 5,575.73	\$ 55,911.81	\$ 65,173.74
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	\$ 88,371.17
Change in OCT	\$ -	\$ -	\$ 273.37	\$ 3,140.86	\$ 4,016.81	\$ -	\$ -
PILs	\$ -	\$ -	\$ 210.60	\$ 4,889.55	\$ 9,885.42	\$ 77,925.87	\$ 88,371.17





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	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
			Date	Year	Quarter	(Principal)	Revenues	Rate				
			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%	-	-

\$

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\$

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\$

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

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EXHIBIT B

RESPONSE TO VECC BOARD 9 b) GS <50 kW Model

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

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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)

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				321,166	1,357,933	104,207		\$ 1,783,306
Smart Meter					109,523	0		\$ 109,523
								\$ -
								\$ -
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)

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			38,445	71,393				\$ 109,838
								\$ -
								\$ -
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	53,223	\$ 64,836
	\$ -	\$ -	\$ 7	\$ 1,007	\$ 12,748	\$ 1,954	\$ 60,967	\$ 76,683
	\$ -	\$ -	\$ 7	\$ 7,304	\$ 21,375	\$ 10,449	\$ 78,361	\$ 117,497
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual		
								\$ -
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ 7	\$ 7,304	\$ 21,375	\$ 10,449	\$ 78,361	\$ 117,497

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	\$ 78,361	\$ 117,497	



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	\$ 78,361
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ 1	\$ 1,096	\$ 3,206	\$ 1,567	\$ 11,754
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ 21,190	\$ 265,736	\$ 1,180,768	\$ 1,850,334	\$ 1,759,861
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 47,231	\$ 74,013	\$ 70,394
Deemed Long Term Debt	\$ -	\$ -	\$ 11,294	\$ 150,672	\$ 661,230	\$ 1,036,187	\$ 985,522
Equity	\$ -	\$ -	\$ 9,896	\$ 115,064	\$ 472,307	\$ 740,134	\$ 703,944
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ 21,190	\$ 265,736	\$ 1,180,768	\$ 1,850,334	\$ 1,759,861
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 978	\$ 1,532	\$ 1,457
Deemed Long Term Debt	\$ -	\$ -	\$ 679	\$ 9,055	\$ 32,995	\$ 51,706	\$ 49,178
Equity	\$ -	\$ -	\$ 891	\$ 10,356	\$ 46,522	\$ 72,903	\$ 69,339
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ 1,569	\$ 19,411	\$ 80,495	\$ 126,141	\$ 119,973
Operating Expenses	\$ -	\$ -	\$ 7	\$ 7,304	\$ 21,375	\$ 10,449	\$ 78,361
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	\$ 360,746
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ 7	\$ 7,304	\$ 21,375	\$ 10,449	\$ 78,361
Amortization Expense	\$ -	\$ -	\$ 2,324	\$ 26,611	\$ 99,758	\$ 156,677	\$ 162,411
Interest Expense	\$ -	\$ -	\$ 679	\$ 9,055	\$ 33,973	\$ 53,238	\$ 50,635
Net Income for Taxes/PILs	\$ -	\$ -	\$ 891	\$ 10,356	\$ 46,522	\$ 72,903	\$ 69,339
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ 73.42	\$ 1,757.24	\$ 3,586.84	\$ 27,122.05	\$ 30,419.56
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ 3,974	\$ 51,569	\$ 198,042	\$ 320,390	\$ 391,165



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	\$ 69,338.52
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	\$ 85,464.48
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	\$ 22,434.43
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	\$ 22,434.43
Change in OCT	\$ -	\$ -	\$ 95.35	\$ 1,095.53	\$ 1,401.17	\$ -	\$ -
PILs	\$ -	\$ -	\$ 80.77	\$ 815.83	\$ 2,040.56	\$ 19,460.07	\$ 22,434.43
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	\$ 30,419.56
Change in OCT	\$ -	\$ -	\$ 95.35	\$ 1,095.53	\$ 1,401.17	\$ -	\$ -
PILs	\$ -	\$ -	\$ 73.42	\$ 1,757.24	\$ 3,586.84	\$ 27,122.05	\$ 30,419.56





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%	-	-
		-	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%	-	-

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