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Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Chapleau Public Utilities Corporation
Chatham-Kent Hydro Inc.

Application Contact Information

Name:	Marita Morin
Title:	Secretary Treasurer
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We are applying for rates effective:	May 1, 2012
Last COS Re-based Year	2008

Legend

DROP-DOWN MENU

INPUT FIELD

CALCULATION FIELD

Copyright

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.

Chapleau Public Utilities Corporation

Distributors must enter all incremental costs related to their smart meter program and all revenues recovered to date in theapplicable 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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Unaudited Actual	Forecast	
Smart Meter Installation Plan								
Actual/Planned number of Smart Meters installed during the Calendar Year								
Residential				1,088	26	0	0	1114
General Service < 50 kW				104	21	35	0	160
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	0	1192	47	35	0	1274
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	0.00%	93.56%	97.25%	100.00%	0.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed				0	0	0	0	0
Other (please identify)				0	0	0	0	0
Total Number of Smart Meters installed or planned to be installed	0	0	0	1192	47	35	0	1274

1 Capital Costs

1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)	**Asset Type** (Asset type must be selected to enable calculations)	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Unaudited Actual	Forecast	
1.1.1 Smart Meters *(may include new meters and modules, etc.)*	Smart Meter				110,180	10,737	10,564	0	$ 131,482
1.1.2 Installation Costs *(may include socket kits, labour, vehicle, benefits, etc.)*	Smart Meter				12,333	0	0	0	$ 12,333
1.1.3a Workforce Automation Hardware *(may include fieldwork handhelds, barcode hardware, etc.)*	Smart Meter				4,299	0	0	0	$ 4,299
1.1.3b Workforce Automation Software *(may include fieldwork handhelds, barcode hardware, etc.)*	Computer Software				0	0	0	0	$ -
Total Advanced Metering Communications Devices (AMCD)		$ -	$ -	$ -	$ 126,813	$ 10,737	$ 10,564	$ -	$ 148,114

1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)	**Asset Type**	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Unaudited Actual	Forecast	
1.2.1 Collectors	Smart Meter				163,555	0	0	0	$ 163,555
1.2.2 Repeaters *(may include radio licence, etc.)*	Smart Meter				0	0	0	0	$ -
1.2.3 Installation *(may include meter seals and rings, collector computer hardware, etc.)*	Smart Meter				1,006	0	0	0	$ 1,006
Total Advanced Metering Regional Collector (AMRC) (Includes LAN)		$ -	$ -	$ -	$ 164,561	$ -	$ -	$ -	$ 164,561

1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

	Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Unaudited Actual	Forecast	
1.3.1 Computer Hardware	Computer Hardware								$ -
1.3.2 Computer Software	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.)*	Computer Software								$ -
Total Advanced Metering Control Computer (AMCC)		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

1.4 WIDE AREA NETWORK (WAN)

	Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Unaudited Actual	Forecast	
1.4.1 Activiation Fees	Tools & Equipment								$ -
Total Wide Area Network (WAN)		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY

	Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Unaudited Actual	Forecast	
1.5.1 Customer Equipment *(including repair of damaged equipment)*	Other Equipment								$ -
1.5.2 AMI Interface to CIS	Computer Software				3,800	24,643	18,614	5,000	$ 52,056
1.5.3 Professional Fees	Smart Meter			9,430	17,138	13,428	16,388	0	$ 56,384
1.5.4 Integration	Computer Software								$ -
1.5.5 Program Management	Computer Software								$ -
1.5.6 Other AMI Capital	Computer Software					8,100			$ 8,100
Total Other AMI Capital Costs Related to Minimum Functionality		$ -	$ -	$ 9,430	$ 20,938	$ 46,170	$ 35,002	$ 5,000	$ 116,540
Total Capital Costs Related to Minimum Functionality		$ -	$ -	$ 9,430	$ 312,312	$ 56,907	$ 45,566	$ 5,000	$ 429,215

1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY

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

	Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Unaudited Actual	Forecast	
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	Computer Software								$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Applications Software								$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc.	Smart Meter				2,387	876	1,152	1,500	$ 5,915
Total Capital Costs Beyond Minimum Functionality		$ -	$ -	$ -	$ 2,387	$ 876	$ 1,152	$ 1,500	$ 5,915
Total Smart Meter Capital Costs		$ -	$ -	$ 9,430	$ 314,698	$ 57,784	$ 46,718	$ 6,500	$ 435,130

2 OM&A Expenses

	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Unaudited Actual	Forecast	
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
2.1.1 Maintenance *(may include meter reverification costs, etc.)*								$ -
2.1.2 Other *(please specifiy)*								$ -
Total Incremental AMCD OM&A Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
2.2.1 Maintenance								$ -
2.2.2 Other *(please specifiy)*								$ -
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 specifiy)*								$ -
Total Incremental AMCC OM&A Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2.4 WIDE AREA NETWORK (WAN)								
2.4.1 WAN Maintenance				18,311	28,707	27,635		$ 74,653
2.4.2 Other *(please specifiy)*								$ -
Total Incremental AMRC OM&A Costs	$ -	$ -	$ -	$ 18,311	$ 28,707	$ 27,635	$ -	$ 74,653
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					1,831	1,915		$ 3,745
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	$ -	$ -	$ -	$ -	$ 1,831	$ 1,915	$ -	$ 3,745
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY	$ -	$ -	$ -	$ 18,311	$ 30,538	$ 29,549	$ -	$ 78,398
2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY *(Please provide a descriptive title and identify nature of beyond minimum functionality costs)*	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Unaudited Actual		
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	$ -	$ -	$ -	$ 18,311	$ 30,538	$ 29,549	$ -	$ 78,398

3 Aggregate Smart Meter Costs by Category

3.1	**Capital**								
3.1.1	Smart Meter	$ -	$ -	$ 9,430	$ 310,898	$ 25,041	$ 28,105	$ 1,500	$ 374,974
3.1.2	Computer Hardware	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3.1.3	Computer Software	$ -	$ -	$ -	$ 3,800	$ 32,743	$ 18,614	$ 5,000	$ 60,156
3.1.4	Tools & Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3.1.5	Other Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3.1.6	Applications Software	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3.1.7	**Total Capital Costs**	**$ -**	**$ -**	**$ 9,430**	**$ 314,698**	**$ 57,784**	**$ 46,718**	**$ 6,500**	**$ 435,130**
3.2	**OM&A Costs**								
3.2.1	**Total OM&A Costs**	**$ -**	**$ -**	**$ -**	**$ 18,311**	**$ 30,538**	**$ 29,549**	**$ -**	**$ 78,398**

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	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure[1]							
Deemed Short-term Debt Capitalization			4.0%	4.0%	4.0%	4.0%	4.0%
Deemed Long-term Debt Capitalization	50.0%	50.0%	49.3%	52.7%	56.0%	56.0%	56.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%
Preferred Shares							
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate			4.47%	1.13%	1.13%	1.13%	1.13%
Long-term Debt Rate (actual/embedded/deemed)[2]	6.25%	6.25%	6.10%	6.10%	6.10%	6.10%	6.10%
Target Return on Equity (ROE)	9.0%	9.00%	8.57%	8.01%	8.01%	8.01%	8.01%
Return on Preferred Shares							
WACC	7.63%	7.63%	7.19%	6.73%	6.67%	6.67%	6.67%
Working Capital Allowance							
Working Capital Allowance Rate	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
(% of the sum of Cost of Power + controllable expenses)							
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates							
(expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates							
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	10%	10%	10%	10%
Computer Equipment - CCA Class	45	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	45	50	50	50	50	50	50
Applications Software - CCA Rate	45%	55%	55%	55%	55%	55%	55%

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 striaght line basis and has the "half-year" rule applied.*

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	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		$ -	$ -	$ 9,430	$ 320,328	$ 345,369	$ 373,474
Capital Additions during year (from Smart Meter Costs)	$ -	$ -	$ 9,430	$ 310,898	$ 25,041	$ 28,105	$ 1,500
Retirements/Removals (if applicable)							
Closing Balance	$ -	$ -	$ 9,430	$ 320,328	$ 345,369	$ 373,474	$ 374,974
Accumulated Depreciation							
Opening Balance		$ -	$ -	-$ 314	-$ 11,306	-$ 33,496	-$ 57,458
Amortization expense during year	$ -	$ -	-$ 314	-$ 10,992	-$ 22,190	-$ 23,961	-$ 24,948
Retirements/Removals (if applicable)							
Closing Balance	$ -	$ -	-$ 314	-$ 11,306	-$ 33,496	-$ 57,458	-$ 82,406
Net Book Value							
Opening Balance	$ -	$ -	$ -	$ 9,115	$ 309,022	$ 311,873	$ 316,016
Closing Balance	$ -	$ -	$ 9,115	$ 309,022	$ 311,873	$ 316,016	$ 292,568
Average Net Book Value	$ -	$ -	$ 4,558	$ 159,068	$ 310,447	$ 313,945	$ 304,292
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance		$ -	$ -	$ -	$ -	$ -	$ -
Capital Additions during year (from Smart Meter Costs)	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Retirements/Removals (if applicable)							
Closing Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Accumulated Depreciation							
Opening Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Amortization expense during year	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Retirements/Removals (if applicable)							
Closing Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Net Book Value							
Opening Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Closing Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Average Net Book Value	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance		$ -	$ -	$ -	$ 3,800	$ 36,543	$ 55,156
Capital Additions during year (from Smart Meter Costs)	$ -	$ -	$ -	$ 3,800	$ 32,743	$ 18,614	$ 5,000
Retirements/Removals (if applicable)							
Closing Balance	$ -	$ -	$ -	$ 3,800	$ 36,543	$ 55,156	$ 60,156
Accumulated Depreciation							
Opening Balance	$ -	$ -	$ -	$ -	-$ 380	-$ 4,414	-$ 13,584
Amortization expense during year	$ -	$ -	$ -	-$ 380	-$ 4,034	-$ 9,170	-$ 11,531
Retirements/Removals (if applicable)							
Closing Balance	$ -	$ -	$ -	-$ 380	-$ 4,414	-$ 13,584	-$ 25,115
Net Book Value							
Opening Balance	$ -	$ -	$ -	$ -	$ 3,420	$ 32,128	$ 41,572
Closing Balance	$ -	$ -	$ -	$ 3,420	$ 32,128	$ 41,572	$ 35,041
Average Net Book Value	$ -	$ -	$ -	$ 1,710	$ 17,774	$ 36,850	$ 38,306
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	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Accumulated Depreciation							
Opening Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Amortization expense during year	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Retirements/Removals (if applicable)							
Closing Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Net Book Value							
Opening Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Closing Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Average Net Book Value	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Net Fixed Assets - Other Equipment							
Gross Book Value							
Opening Balance		$ -	$ -	$ -	$ -	$ -	$ -
Capital Additions during year (from Smart Meter Costs)	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Retirements/Removals (if applicable)							
Closing Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Accumulated Depreciation							
Opening Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Amortization expense during year	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Retirements/Removals (if applicable)							
Closing Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Net Book Value							
Opening Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Closing Balance	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Average Net Book Value	$ -	$ -	$ -	$ -	$ -	$ -	$ -

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	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	$ -	$ -	$ 4,558	$ 159,068	$ 310,447	$ 313,945	$ 304,292
Computer Hardware	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Computer Software	$ -	$ -	$ -	$ 1,710	$ 17,774	$ 36,850	$ 38,306
Tools & Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Net Fixed Assets	**$ -**	**$ -**	**$ 4,558**	**$ 160,778**	**$ 328,221**	**$ 350,795**	**$ 342,599**
Working Capital							
Operating Expenses (from Sheet 2)	$ -	$ -	$ -	$ 18,311	$ 30,538	$ 29,549	$ -
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	$ -	$ -	$ -	$ 2,747	$ 4,581	$ 4,432	$ -
Incremental Smart Meter Rate Base	**$ -**	**$ -**	**$ 4,558**	**$ 163,525**	**$ 332,802**	**$ 355,227**	**$ 342,599**
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	$ -	$ -	$ 182	$ 6,541	$ 13,312	$ 14,209	$ 13,704
Deemed Long Term Debt	$ -	$ -	$ 2,247	$ 86,178	$ 186,369	$ 198,927	$ 191,855
Equity	$ -	$ -	$ 2,128	$ 70,806	$ 133,121	$ 142,091	$ 137,039
Preferred Shares	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Capitalization	$ -	$ -	$ 4,558	$ 163,525	$ 332,802	$ 355,227	$ 342,599
Return on							
Deemed Short Term Debt	$ -	$ -	$ 8	$ 74	$ 150	$ 161	$ 155
Deemed Long Term Debt	$ -	$ -	$ 137	$ 5,257	$ 11,369	$ 12,135	$ 11,703
Equity	$ -	$ -	$ 182	$ 5,672	$ 10,663	$ 11,381	$ 10,977
Preferred Shares	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Return on Capital	$ -	$ -	$ 328	$ 11,002	$ 22,182	$ 23,677	$ 22,835
Operating Expenses	$ -	$ -	$ -	$ 18,311	$ 30,538	$ 29,549	$ -
Amortization Expenses (from Sheet 4)							
Smart Meters	$ -	$ -	$ 314	$ 10,992	$ 22,190	$ 23,961	$ 24,948
Computer Hardware	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Computer Software	$ -	$ -	$ -	$ 380	$ 4,034	$ 9,170	$ 11,531
Tools & Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Amortization Expense in Year	$ -	$ -	$ 314	$ 11,372	$ 26,224	$ 33,131	$ 36,479
Incremental Revenue Requirement before Taxes/PILs	$ -	$ -	$ 642	$ 40,685	$ 78,944	$ 86,357	$ 59,314
Calculation of Taxable Income							
Incremental Operating Expenses	$ -	$ -	$ -	$ 18,311	$ 30,538	$ 29,549	$ -
Amortization Expense	$ -	$ -	$ 314	$ 11,372	$ 26,224	$ 33,131	$ 36,479
Interest Expense	$ -	$ -	$ 145	$ 5,331	$ 11,519	$ 12,295	$ 11,858
Net Income for Taxes/PILs	$ -	$ -	$ 182	$ 5,672	$ 10,663	$ 11,381	$ 10,977
Grossed-up Taxes/PILs (from Sheet 7)	$ -	$ -	$ 80.73	$ 480.54	-$ 2,093.70	-$ 2,143.11	$ 1,070.50
Revenue Requirement, including Grossed-up Taxes/PILs	$ -	$ -	$ 723	$ 41,166	$ 76,850	$ 84,214	$ 60,385

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For PILs Calculation

UCC - Smart Meters	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Unaudited Actual	2012 and later Forecast
Opening UCC	$ -	$ -	$ -	$ 9,052.34	$ 303,500.63	$ 296,939.48	$ 293,945.19
Capital Additions	$ -	$ -	$ 9,429.52	$ 310,898.45	$ 25,040.96	$ 28,104.90	$ 1,500.00
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	$ -	$ -	$ 9,429.52	$ 319,950.79	$ 328,541.59	$ 325,044.38	$ 295,445.19
Half Year Rule (1/2 Additions - Disposals)	$ -	$ -	$ 4,714.76	$ 155,449.23	$ 12,520.48	$ 14,052.45	$ 750.00
Reduced UCC	$ -	$ -	$ 4,714.76	$ 164,501.56	$ 316,021.11	$ 310,991.93	$ 294,695.19
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	10%	10%	10%	10%
CCA	$ -	$ -	$ 377.18	$ 16,450.16	$ 31,602.11	$ 31,099.19	$ 29,469.52
Closing UCC	$ -	$ -	$ 9,052.34	$ 303,500.63	$ 296,939.48	$ 293,945.19	$ 265,975.67

UCC - Computer Equipment	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Unaudited Actual	2012 and later Forecast
Opening UCC	$ -	$ -	$ -	$ -	$ 2,755.00	$ 24,978.14	$ 24,734.95
Capital Additions Computer Hardware	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Additions Computer Software	$ -	$ -	$ -	$ 3,800.00	$ 32,742.60	$ 18,613.50	$ 5,000.00
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	$ -	$ -	$ -	$ 3,800.00	$ 35,497.60	$ 43,591.64	$ 29,734.95
Half Year Rule (1/2 Additions - Disposals)	$ -	$ -	$ -	$ 1,900.00	$ 16,371.30	$ 9,306.75	$ 2,500.00
Reduced UCC	$ -	$ -	$ -	$ 1,900.00	$ 19,126.30	$ 34,284.89	$ 27,234.95
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%
CCA	$ -	$ -	$ -	$ 1,045.00	$ 10,519.47	$ 18,856.69	$ 14,979.22
Closing UCC	$ -	$ -	$ -	$ 2,755.00	$ 24,978.14	$ 24,734.95	$ 14,755.73

UCC - General Equipment	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Unaudited Actual	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 Unaudited Actual	2012 and later Forecast
INCOME TAX							
Net Income	$ -	$ -	$ 182.40	$ 5,671.59	$ 10,662.98	$ 11,381.48	$ 10,976.86
Amortization	$ -	$ -	$ 314.32	$ 11,371.92	$ 26,224.16	$ 33,131.30	$ 36,479.48
CCA - Smart Meters	$ -	$ -	-$ 377.18	-$ 16,450.16	-$ 31,602.11	-$ 31,099.19	-$ 29,469.52
CCA - Computers	$ -	$ -	$ -	-$ 1,045.00	-$ 10,519.47	-$ 18,856.69	-$ 14,979.22
CCA - Applications Software	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CCA - Other Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Change in taxable income	$ -	$ -	$ 119.54	-$ 451.65	-$ 5,234.44	-$ 5,443.11	$ 3,007.59
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	$ -	$ -	$ 40.05	-$ 149.04	-$ 1,622.68	-$ 1,537.68	$ 789.49
ONTARIO CAPITAL TAX							
Smart Meters	$ -	$ -	$ 9,115.20	$ 309,021.74	$ 311,872.80	$ 316,016.27	$ 292,568.02
Computer Hardware	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Computer Software (Including Application Software)	$ -	$ -	$ -	$ 3,420.00	$ 32,128.34	$ 41,571.97	$ 35,040.75
Tools & Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rate Base	$ -	$ -	$ 9,115.20	$ 312,441.74	$ 344,001.14	$ 357,588.24	$ 327,608.77
Less: Exemption							
Deemed Taxable Capital	$ -	$ -	$ 9,115.20	$ 312,441.74	$ 344,001.14	$ 357,588.24	$ 327,608.77
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)	$ -	$ -	$ 20.51	$ 702.99	$ 258.00	$ -	$ -
Change in Income Taxes Payable	$ -	$ -	$ 40.05	-$ 149.04	-$ 1,622.68	-$ 1,537.68	$ 789.49
Change in OCT	$ -	$ -	$ 20.51	$ 702.99	$ 258.00	$ -	$ -
PILs	$ -	$ -	$ 60.56	$ 553.95	-$ 1,364.68	-$ 1,537.68	$ 789.49

Gross Up PILs

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Unaudited Actual	2012 and later Forecast
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	$ -	$ -	$ 60.22	-$ 222.45	-$ 2,351.70	-$ 2,143.11	$ 1,070.50
Change in OCT	$ -	$ -	$ 20.51	$ 702.99	$ 258.00	$ -	$ -
PILs	**$ -**	**$ -**	**$ 80.73**	**$ 480.54**	**-$ 2,093.70**	**-$ 2,143.11**	**$ 1,070.50**

Chapleau Public Utilities Corporation

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP
2006 Q1		
2006 Q2	4.14%	4.68%
2006 Q3	4.59%	5.05%
2006 Q4	4.59%	4.72%
2007 Q1	4.59%	4.72%
2007 Q2	4.59%	4.72%
2007 Q3	4.59%	5.18%
2007 Q4	5.14%	5.18%
2008 Q1	5.14%	5.18%
2008 Q2	4.08%	5.18%
2008 Q3	3.35%	5.43%
2008 Q4	3.35%	5.43%
2009 Q1	2.45%	6.61%
2009 Q2	1.00%	6.61%
2009 Q3	0.55%	5.67%
2009 Q4	0.55%	4.66%
2010 Q1	0.55%	4.34%
2010 Q2	0.55%	4.34%
2010 Q3	0.89%	4.66%
2010 Q4	1.20%	4.01%
2011 Q1	1.47%	4.29%
2011 Q2	1.47%	4.29%
2011 Q3	1.47%	4.29%
2011 Q4	1.47%	4.29%
2012 Q1	1.47%	4.29%
2012 Q2		4.29%
2012 Q3		4.29%
2012 Q4		4.29%

Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
Jan-06	2006	Q1	$ -		0.00%	$ -	$ -		
Feb-06	2006	Q1	$ -		0.00%	$ -	$ -		
Mar-06	2006	Q1	$ -		0.00%	$ -	$ -		
Apr-06	2006	Q2	$ -		4.14%	$ -	$ -		
May-06	2006	Q2	$ -		4.14%	$ -	$ -		
Jun-06	2006	Q2	$ -	$ 348.92	4.14%	$ -	$ 348.92		$ 0.26
Jul-06	2006	Q3	$ 348.92	$ 348.92	4.59%	$ 1.33	$ 699.17		$ 0.26
Aug-06	2006	Q3	$ 697.84	$ 348.92	4.59%	$ 2.67	$ 1,049.43		$ 0.26
Sep-06	2006	Q3	$ 1,046.76	$ 348.92	4.59%	$ 4.00	$ 1,399.68		$ 0.26
Oct-06	2006	Q4	$ 1,395.68	$ 348.92	4.59%	$ 5.34	$ 1,749.94		$ 0.26
Nov-06	2006	Q4	$ 1,744.60	$ 348.92	4.59%	$ 6.67	$ 2,100.19		$ 0.26
Dec-06	2006	Q4	$ 2,093.52	$ 348.92	4.59%	$ 8.01	$ 2,450.45	$ 2,470.46	$ 0.26
Jan-07	2007	Q1	$ 2,442.44	$ 348.92	4.59%	$ 9.34	$ 2,800.70		$ 0.26
Feb-07	2007	Q1	$ 2,791.36	$ 348.92	4.59%	$ 10.68	$ 3,150.96		$ 0.26
Mar-07	2007	Q1	$ 3,140.28	$ 348.92	4.59%	$ 12.01	$ 3,501.21		$ 0.26
Apr-07	2007	Q2	$ 3,489.20	$ 348.92	4.59%	$ 13.35	$ 3,851.47		$ 0.26
May-07	2007	Q2	$ 3,838.12	$ 348.92	4.59%	$ 14.68	$ 4,201.72		$ 0.26
Jun-07	2007	Q2	$ 4,187.04	$ 348.92	4.59%	$ 16.02	$ 4,551.98		$ 0.26
Jul-07	2007	Q3	$ 4,535.96	$ 348.92	4.59%	$ 17.35	$ 4,902.23		$ 0.26
Aug-07	2007	Q3	$ 4,884.88	$ 348.92	4.59%	$ 18.68	$ 5,252.48		$ 0.26
Sep-07	2007	Q3	$ 5,233.80	$ 348.92	4.59%	$ 20.02	$ 5,602.74		$ 0.26
Oct-07	2007	Q4	$ 5,582.72	$ 348.92	5.14%	$ 23.91	$ 5,955.55		$ 0.26
Nov-07	2007	Q4	$ 5,931.64	$ 348.92	5.14%	$ 25.41	$ 6,305.97		$ 0.26
Dec-07	2007	Q4	$ 6,280.56	$ 348.92	5.14%	$ 26.90	$ 6,656.38	$ 4,395.39	$ 0.26
Jan-08	2008	Q1	$ 6,629.48	$ 348.92	5.14%	$ 28.40	$ 7,006.80		$ 0.26
Feb-08	2008	Q1	$ 6,978.40	$ 348.92	5.14%	$ 29.89	$ 7,357.21		$ 0.26
Mar-08	2008	Q1	$ 7,327.32	$ 348.92	5.14%	$ 31.39	$ 7,707.63		$ 0.26
Apr-08	2008	Q2	$ 7,676.24	$ 348.92	4.08%	$ 26.10	$ 8,051.26		$ 0.26
May-08	2008	Q2	$ 8,025.16	$ 348.92	4.08%	$ 27.29	$ 8,401.37		$ 0.26
Jun-08	2008	Q2	$ 8,374.08	$ 348.92	4.08%	$ 28.47	$ 8,751.47		$ 0.26
Jul-08	2008	Q3	$ 8,723.00	$ 348.92	3.35%	$ 24.35	$ 9,096.27		$ 0.26
Aug-08	2008	Q3	$ 9,071.92	$ 348.92	3.35%	$ 25.33	$ 9,446.17		$ 0.26
Sep-08	2008	Q3	$ 9,420.84	$ 349.44	3.35%	$ 26.30	$ 9,796.58		$ 0.26
Oct-08	2008	Q4	$ 9,770.28	$ 349.44	3.35%	$ 27.28	$ 10,147.00		$ 0.26
Nov-08	2008	Q4	$ 10,119.72	$ 349.44	3.35%	$ 28.25	$ 10,497.41		$ 0.26
Dec-08	2008	Q4	$ 10,469.16	$ 349.44	3.35%	$ 29.23	$ 10,847.83	$ 4,521.40	$ 0.26
Jan-09	2009	Q1	$ 10,818.60	$ 349.44	2.45%	$ 22.09	$ 11,190.13		$ 0.26
Feb-09	2009	Q1	$ 11,168.04	$ 349.44	2.45%	$ 22.80	$ 11,540.28		$ 0.26
Mar-09	2009	Q1	$ 11,517.48	$ 349.44	2.45%	$ 23.51	$ 11,890.43		$ 0.26
Apr-09	2009	Q2	$ 11,866.92	$ 349.44	1.00%	$ 9.89	$ 12,226.25		$ 0.26
May-09	2009	Q2	$ 12,216.36	$ 349.44	1.00%	$ 10.18	$ 12,575.98		$ 1.00
Jun-09	2009	Q2	$ 12,565.80	$ 1,344.00	1.00%	$ 10.47	$ 13,920.27		$ 1.00
Jul-09	2009	Q3	$ 13,909.80	$ 1,344.00	0.55%	$ 6.38	$ 15,260.18		$ 1.00
Aug-09	2009	Q3	$ 15,253.80	$ 1,344.00	0.55%	$ 6.99	$ 16,604.79		$ 1.00
Sep-09	2009	Q3	$ 16,597.80	$ 1,344.00	0.55%	$ 7.61	$ 17,949.41		$ 1.00
Oct-09	2009	Q4	$ 17,941.80	$ 1,344.00	0.55%	$ 8.22	$ 19,294.02		$ 1.00
Nov-09	2009	Q4	$ 19,285.80	$ 1,344.00	0.55%	$ 8.84	$ 20,638.64		$ 1.00
Dec-09	2009	Q4	$ 20,629.80	$ 1,344.00	0.55%	$ 9.46	$ 21,983.26	$ 11,301.64	$ 1.00
Jan-10	2010	Q1	$ 21,973.80	$ 1,344.00	0.55%	$ 10.07	$ 23,327.87		$ 1.00
Feb-10	2010	Q1	$ 23,317.80	$ 1,344.00	0.55%	$ 10.69	$ 24,672.49		$ 1.00
Mar-10	2010	Q1	$ 24,661.80	$ 1,344.00	0.55%	$ 11.30	$ 26,017.10		$ 1.00
Apr-10	2010	Q2	$ 26,005.80	$ 1,344.00	0.55%	$ 11.92	$ 27,361.72		$ 1.00
May-10	2010	Q2	$ 27,349.80	$ 1,344.00	0.55%	$ 12.54	$ 28,706.34		$ 1.00
Jun-10	2010	Q2	$ 28,693.80	$ 1,344.00	0.55%	$ 13.15	$ 30,050.95		$ 1.00
Jul-10	2010	Q3	$ 30,037.80	$ 1,350.73	0.89%	$ 22.28	$ 31,410.81		$ 1.00
Aug-10	2010	Q3	$ 31,388.53	$ 1,225.94	0.89%	$ 23.28	$ 32,637.75		$ 1.00
Sep-10	2010	Q3	$ 32,614.47	$ 1,326.01	0.89%	$ 24.19	$ 33,964.67		$ 1.00
Oct-10	2010	Q4	$ 33,940.48	$ 1,278.47	1.20%	$ 33.94	$ 35,252.89		$ 1.00
Nov-10	2010	Q4	$ 35,218.95	$ 1,229.72	1.20%	$ 35.22	$ 36,483.89		$ 1.00
Dec-10	2010	Q4	$ 36,448.67	$ 1,278.77	1.20%	$ 36.45	$ 37,763.89	$ 15,998.67	$ 1.00
Jan-11	2011	Q1	$ 37,727.44	$ 1,215.57	1.47%	$ 46.22	$ 38,989.23		$ 1.00
Feb-11	2011	Q1	$ 38,943.01	$ 1,316.09	1.47%	$ 47.71	$ 40,306.81		$ 1.00
Mar-11	2011	Q1	$ 40,259.10	$ 1,228.44	1.47%	$ 49.32	$ 41,536.86		$ 1.00
Apr-11	2011	Q2	$ 41,487.54	$ 1,245.59	1.47%	$ 50.82	$ 42,783.95		$ 1.00
May-11	2011	Q2	$ 42,733.13	$ 1,135.98	1.47%	$ 52.35	$ 43,921.46		$ 2.50
Jun-11	2011	Q2	$ 43,869.11	$ 1,965.84	1.47%	$ 53.74	$ 45,888.69		$ 2.50
Jul-11	2011	Q3	$ 45,834.95	$ 3,108.13	1.47%	$ 56.15	$ 48,999.23		$ 2.50
Aug-11	2011	Q3	$ 48,943.08	$ 3,029.12	1.47%	$ 59.96	$ 52,032.16		$ 2.50
Sep-11	2011	Q3	$ 51,972.20	$ 3,262.24	1.47%	$ 63.67	$ 55,298.11		$ 2.50
Oct-11	2011	Q4	$ 55,234.44	$ 3,163.14	1.47%	$ 67.66	$ 58,465.24		$ 2.50
Nov-11	2011	Q4	$ 58,397.58	$ 3,265.00	1.47%	$ 71.54	$ 61,734.12		$ 2.50
Dec-11	2011	Q4	$ 61,662.58	$ 3,270.00	1.47%	$ 75.54	$ 65,008.12	$ 27,899.82	$ 2.50
Jan-12	2012	Q1	$ 64,932.58	$ 3,270.00	1.47%	$ 79.54	$ 68,282.12		$ 2.50
Feb-12	2012	Q1	$ 68,202.58	$ 3,270.00	1.47%	$ 83.55	$ 71,556.13		$ 2.50
Mar-12	2012	Q1	$ 71,472.58	$ 3,270.00	1.47%	$ 87.55	$ 74,830.13		$ 2.50
Apr-12	2012	Q2	$ 74,742.58	$ 3,270.00	0.00%	$ -	$ 78,012.58		$ 2.50
May-12	2012	Q2	$ 78,012.58		0.00%	$ -	$ 78,012.58		
Jun-12	2012	Q2	$ 78,012.58		0.00%	$ -	$ 78,012.58		
Jul-12	2012	Q3	$ 78,012.58		0.00%	$ -	$ 78,012.58		
Aug-12	2012	Q3	$ 78,012.58		0.00%	$ -	$ 78,012.58		
Sep-12	2012	Q3	$ 78,012.58		0.00%	$ -	$ 78,012.58		
Oct-12	2012	Q4	$ 78,012.58		0.00%	$ -	$ 78,012.58		
Nov-12	2012	Q4	$ 78,012.58		0.00%	$ -	$ 78,012.58		
Dec-12	2012	Q4	$ 78,012.58		0.00%	$ -	$ 78,012.58	$ 13,330.64	
Total Funding Adder Revenues Collected				**$ 78,012.58**		**$ 1,905.44**	**$ 79,918.02**	**$ 79,918.02**	

Ontario Energy Board

Smart Meter Model

Chapleau Public Utilities Corporation

This worksheet calculates the interest on OM&A and amortization/depreciation expense, based on monthly data.

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP
2006 Q1	0.00%	0.00%
2006 Q2	4.14%	4.68%
2006 Q3	4.59%	5.05%
2006 Q4	4.59%	4.72%
2007 Q1	4.59%	4.72%
2007 Q2	4.59%	4.72%
2007 Q3	4.59%	5.18%
2007 Q4	5.14%	5.18%
2008 Q1	5.14%	5.18%
2008 Q2	4.08%	5.18%
2008 Q3	3.35%	5.43%
2008 Q4	3.35%	5.43%
2009 Q1	2.45%	6.61%
2009 Q2	1.00%	6.61%
2009 Q3	0.55%	5.67%
2009 Q4	0.55%	4.66%
2010 Q1	0.55%	4.34%
2010 Q2	0.55%	4.34%
2010 Q3	0.89%	4.66%
2010 Q4	1.20%	4.01%
2011 Q1	1.47%	4.29%
2011 Q2	1.47%	4.29%
2011 Q3	1.47%	4.29%
2011 Q4	1.47%	4.29%
2012 Q1	1.47%	4.29%
2012 Q2	0.00%	4.29%
2012 Q3	0.00%	4.29%
2012 Q4	0.00%	4.29%

Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
Jan-06	2006	Q1	$ -			-	0.00%	-	-
Feb-06	2006	Q1	-			-	0.00%	-	-
Mar-06	2006	Q1	-			-	0.00%	-	-
Apr-06	2006	Q2	-			-	4.14%	-	-
May-06	2006	Q2	-			-	4.14%	-	-
Jun-06	2006	Q2	-			-	4.14%	-	-
Jul-06	2006	Q3	-			-	4.59%	-	-
Aug-06	2006	Q3	-			-	4.59%	-	-
Sep-06	2006	Q3	-			-	4.59%	-	-
Oct-06	2006	Q4	-			-	4.59%	-	-
Nov-06	2006	Q4	-			-	4.59%	-	-
Dec-06	2006	Q4	-			-	4.59%	-	-
Jan-07	2007	Q1	-			-	4.59%	-	-
Feb-07	2007	Q1	-			-	4.59%	-	-
Mar-07	2007	Q1	-			-	4.59%	-	-
Apr-07	2007	Q2	-			-	4.59%	-	-
May-07	2007	Q2	-			-	4.59%	-	-
Jun-07	2007	Q2	-			-	4.59%	-	-
Jul-07	2007	Q3	-			-	4.59%	-	-
Aug-07	2007	Q3	-			-	4.59%	-	-
Sep-07	2007	Q3	-			-	4.59%	-	-
Oct-07	2007	Q4	-			-	5.14%	-	-
Nov-07	2007	Q4	-			-	5.14%	-	-
Dec-07	2007	Q4	-			-	5.14%	-	-
Jan-08	2008	Q1	-			-	5.14%	-	-
Feb-08	2008	Q1	-			-	5.14%	-	-
Mar-08	2008	Q1	-			-	5.14%	-	-
Apr-08	2008	Q2	-			-	4.08%	-	-
May-08	2008	Q2	-			-	4.08%	-	-
Jun-08	2008	Q2	-			-	4.08%	-	-
Jul-08	2008	Q3	-			-	3.35%	-	-
Aug-08	2008	Q3	-			-	3.35%	-	-
Sep-08	2008	Q3	-			-	3.35%	-	-
Oct-08	2008	Q4	-			-	3.35%	-	-
Nov-08	2008	Q4	-			-	3.35%	-	-
Dec-08	2008	Q4	-			-	3.35%	-	-
Jan-09	2009	Q1	-			-	2.45%	-	-
Feb-09	2009	Q1	-			-	2.45%	-	-
Mar-09	2009	Q1	-			-	2.45%	-	-
Apr-09	2009	Q2	-			-	1.00%	-	-
May-09	2009	Q2	-			-	1.00%	-	-
Jun-09	2009	Q2	-			-	1.00%	-	-
Jul-09	2009	Q3	-			-	0.55%	-	-
Aug-09	2009	Q3	-			-	0.55%	-	-
Sep-09	2009	Q3	-			-	0.55%	-	-
Oct-09	2009	Q4	-			-	0.55%	-	-
Nov-09	2009	Q4	-	$ 16,003.48		16,003.48	0.55%	-	-
Dec-09	2009	Q4	16,003.48	$ 2,307.48		18,310.96	0.55%	7.33	7.33
Jan-10	2010	Q1	18,310.96	$ 2,307.48		20,618.44	0.55%	8.39	15.73
Feb-10	2010	Q1	20,618.44	$ 815.38		21,433.82	0.55%	9.45	25.18
Mar-10	2010	Q1	21,433.82	$ 2,684.56		24,118.38	0.55%	9.82	35.00
Apr-10	2010	Q2	24,118.38	$ 2,684.86		26,803.24	0.55%	11.05	46.06
May-10	2010	Q2	26,803.24	$ 3,373.03		30,176.27	0.55%	12.28	58.34
Jun-10	2010	Q2	30,176.27	$ 2,673.60		32,849.87	0.55%	13.83	72.17
Jul-10	2010	Q3	32,849.87	$ 2,661.02		35,510.89	0.89%	24.36	96.53
Aug-10	2010	Q3	35,510.89	$ 2,660.88		38,171.77	0.89%	26.34	122.87
Sep-10	2010	Q3	38,171.77	$ 2,664.19		40,835.96	0.89%	28.31	151.18
Oct-10	2010	Q4	40,835.96	$ 2,664.33		43,500.29	1.20%	40.84	192.02
Nov-10	2010	Q4	43,500.29	$ 2,654.53		46,154.82	1.20%	43.50	235.52
Dec-10	2010	Q4	46,154.82	$ 2,694.24		48,849.06	1.20%	46.15	281.67
Jan-11	2011	Q1	48,849.06	$ 2,696.29		51,545.35	1.47%	59.84	341.51
Feb-11	2011	Q1	51,545.35	$ 2,696.42		54,241.77	1.47%	63.14	404.66
Mar-11	2011	Q1	54,241.77	$ 2,410.35		56,652.12	1.47%	66.45	471.10
Apr-11	2011	Q2	56,652.12	$ 2,410.48		59,062.60	1.47%	69.40	540.50
May-11	2011	Q2	59,062.60	$ 2,409.05		61,471.65	1.47%	72.35	612.85
Jun-11	2011	Q2	61,471.65	$ 2,410.74		63,882.39	1.47%	75.30	688.16
Jul-11	2011	Q3	63,882.39	$ 2,411.77		66,294.16	1.47%	78.26	766.41
Aug-11	2011	Q3	66,294.16	$ 2,412.02		68,706.18	1.47%	81.21	847.62
Sep-11	2011	Q3	68,706.18	$ 2,412.02		71,118.20	1.47%	84.17	931.79
Oct-11	2011	Q4	71,118.20	$ 2,414.35		73,532.55	1.47%	87.12	1,018.91
Nov-11	2011	Q4	73,532.55	$ 2,411.40		75,943.95	1.47%	90.08	1,108.99
Dec-11	2011	Q4	75,943.95	$ 2,454.49		78,398.44	1.47%	93.03	1,202.02
Jan-12	2012	Q1	78,398.44			78,398.44	1.47%	96.04	1,298.05
Feb-12	2012	Q1	78,398.44			78,398.44	1.47%	96.04	1,394.09
Mar-12	2012	Q1	78,398.44			78,398.44	1.47%	96.04	1,490.13
Apr-12	2012	Q2	78,398.44			78,398.44	0.00%	-	1,490.13
May-12	2012	Q2	78,398.44			78,398.44	0.00%	-	1,490.13
Jun-12	2012	Q2	78,398.44			78,398.44	0.00%	-	1,490.13
Jul-12	2012	Q3	78,398.44			78,398.44	0.00%	-	1,490.13
Aug-12	2012	Q3	78,398.44			78,398.44	0.00%	-	1,490.13
Sep-12	2012	Q3	78,398.44			78,398.44	0.00%	-	1,490.13
Oct-12	2012	Q4	78,398.44			78,398.44	0.00%	-	1,490.13
Nov-12	2012	Q4	78,398.44			78,398.44	0.00%	-	1,490.13
Dec-12	2012	Q4	78,398.44			78,398.44	0.00%	-	1,490.13
				$ 78,398.44	$ -	$ 78,398.44			

Ontario Energy Board

Smart Meter Model

Chapleau Public Utilities Corporation

This worksheet calculates the interest on OM&A and amortization/depreciation expense, in the absence of monthly data.

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense	Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
2006	$ -	$ -	$ -	$ -	4.37%	$ -
2007	$ -	$ -	$ -	$ -	4.73%	$ -
2008	$ -	$ 314.32	$ 314.32	$ 157.16	3.98%	$ 6.25
2009	$ 18,310.96	$ 11,371.92	$ 29,997.19	$ 15,155.76	1.14%	$ 172.40
2010	$ 30,538.10	$ 26,224.16	$ 86,759.45	$ 58,378.32	0.80%	$ 465.57
2011	$ 29,549.38	$ 33,131.30	$ 149,440.13	$ 118,099.79	1.47%	$ 1,736.07
2012	$ -	$ 36,479.48	$ 185,919.60	$ 167,679.86	1.47%	$ 2,464.89
Cumulative Interest to 2011						$ 2,380.29
Cumulative Interest to 2012						$ 4,845.18

Ontario Energy Board

Smart Meter Model

Chapleau Public Utilities Corporation

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

Check if applicable

Check	Rider	Note
	Smart Meter Funding Adder (SMFA)	
X	Smart Meter Disposition Rider (SMDR)	**The SMDR is calculated based on costs to December 31, 2011**
	Smart Meter Incremental Revenue Requirement Rate Rider (SMIRR)	**The SMIRR is calculated based on the incremental revenue requirement associated with the recovery of capital related costs to December 31, 2012 and associated OM&A.**

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	$ -	$ -	$ 722.66	$ 41,165.76	$ 76,850.48	$ 84,214.17	$ 60,384.85	$ 263,337.92
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check **one** of the boxes below)	$ -	$ -	$ -	$ 7.33	$ 274.34	$ 920.34		$ 1,202.02
X Sheet 8A (Interest calculated on monthly balances)	$ -	$ -	$ -	$ 7.33	$ 274.34	$ 920.34		$ 1,202.02
Sheet 8B (Interest calculated on average annual balances)								$ -
SMFA Revenues (from Sheet 8)	$ 2,442.44	$ 4,187.04	$ 4,189.12	$ 11,155.20	$ 15,753.64	$ 27,205.14	$ 13,080.00	$ 78,012.58
SMFA Interest (from Sheet 8)	$ 28.02	$ 208.35	$ 332.28	$ 146.44	$ 245.03	$ 694.68	$ 250.64	$ 1,905.44
Net Deferred Revenue Requirement	-$ 2,470.46	-$ 4,395.39	-$ 3,798.74	$ 29,871.46	$ 61,126.15	$ 57,234.69	$ 47,054.21	$ 184,621.92
Number of Metered Customers (average for 2012 test year)							1308	

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

Years for collection or refunding		4
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization		$ 204,155.09
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues		$ 79,918.02
Net Deferred Revenue Requirement		$ 124,237.07
SMDR	May 1, 2012 to April 30, 2016	$ 1.98
Check: Forecasted SMDR Revenues		$ 124,312.32

Match