

June 27, 2012

Kirsten Walli
Board Secretary
Ontario Energy Board
2300 Yonge Street, 27th Floor
Toronto, ON M4P 1E4

Dear Ms. Walli:

**Re: Thunder Bay Hydro Electricity Distribution Inc. ("TBHEDI")
2012 Smart Meter Cost Recovery
Board File No. EB-2012-0015**

This letter acknowledges receipt of the OEB's Decision and Order dated June 21, 2012. TBHEDI submits two (2) paper copies of its responses to the Board's Decision and Order for the 2012 Smart Meter Cost Recovery and encloses the following:

- Responses to the Board's Decision and Order
- Appendix A: 2012 Smart Meter Model_FINAL_2.17_20120411.xls
- Appendix B: Proposed Tariff of Rates and Charges

An electronic copy has been submitted through the OEB's RESS on-line filing system and via email, including a copy to all intervenors. Please note that the excel version of Appendix B has been included as well.

Should you require any additional information, please do not hesitate to contact the undersigned.

Yours truly,



Cindy Speziale, CA
Vice President, Finance

Encl.

cc: Robert Mace, President, Thunder Bay Hydro Electricity Distribution Inc.
Michael Buonaguro, Counsel for Vulnerable Energy Consumers Coalition (VECC)

Responses to the Board's Decision and Order
2012 Smart Meter Cost Recovery
Thunder Bay Hydro Electricity Distribution Inc. ("TBHEDI")
EB-2012-0015

Background

In the Board's Decision and Order (the "Decision") dated June 21, 2012 in EB-2012-0015, the Board states on page 10 that TBHEDI received new distribution rates with an effective date of May 1, 2012 in its IRM application EB-2011-0197 on April 4, 2012 in which the Board later declared those rates interim on May 1, 2012. Also, the Board approves an effective date of May 1, 2012 with an implementation date of July 1, 2012. As a result, the SMIRR is to be derived using a 10 month period from July 1, 2012 to April 30, 2013 and the SMDR is to be derived using a 22 month period from July 1, 2012 to April 30, 2014. Interest to and including June 2012 will be allowed.

Calculation of Rate Riders

SMDR

As seen in **Appendix A** (Tab 9) and reproduced from page 8 of TBHEDI's responses to Board Staff's final submissions dated May 3, 2012, the net deferred revenue requirement as at December 31, 2011 is (\$1,136,137) which is allocated using total collected revenues, allocating the revenues from the GS > 50 to 999 kW and GS > 1000 kW classes to the Residential and GS < 50 kW classes based on the number of meters. TBHEDI has added to the chart in yellow a calculation to determine the SMDR over a 22 month period.

<u>Class</u>	<u>SMFA \$ per VECC #7c</u>	<u>Allocation</u>	<u>Revised \$</u>	<u>%</u>	<u>Total Revenues & carrying charges*</u>
Residential	\$3,059,082	\$33,558	\$3,092,639	90.8% A	\$ 3,691,745
GS < 50 kW	\$310,752	\$3,434	\$314,186	9.2% B	\$ 375,050
Subtotal	\$3,369,833				
GS > 50 kW	\$35,625				
GS > 1000 kW	\$1,367				
Subtotal	\$36,992				
Total Revenue	\$3,406,825	\$36,992	\$3,406,825	100.0%	\$ 4,066,795

Meters Installed

Residential	44,891	90.7%
GS < 50 kW	4,594	9.3%
	49,485	100.0%

*Please note that the total revenues and carrying charges as reported on Tab 8 of the Smart Meter Model are allocated based on the % labeled as "A" and "B".

Total Costs as at
Dec. 31/11 (per
Tab 9 of the
"Model"

\$2,930,658

Residential	\$2,144,735	73%
GS < 50 kW	\$785,923	27%

	<u>Revenues</u>	<u>%</u>	<u>Costs</u>	<u>%</u>	<u>Net Rev Req't</u>
Residential	-\$3,691,745	91%	\$2,144,735	73%	-\$1,547,010
GS < 50 kW	-\$375,050	9%	\$785,923	27%	\$410,873
	-\$4,066,795	100%	\$2,930,658	100%	-\$1,136,137

	2012 Forecasted customers (E)	SMDR \$ 24 months	SMDR \$ 22 months
Residential	44,605	-\$1.45	-\$1.58
GS < kW	4,457	\$3.84	\$4.19

SMIRR

As seen in Appendix A (Tab 9) and reproduced from TBHEDI's response to VECC's interrogatories dated April 11, 2012 on page 8, the incremental revenue requirement for 2012 is \$1,364,127. TBHEDI provided cost allocation for the SMIRR based on the PowerStream methodology in EB-2011-0128 dated November 21, 2011. TBHEDI has added to the chart in yellow a calculation to determine the SMIRR over a 10 month period.

Incremental
Revenue
Requirement for
2012 \$ 1,364,127

Return	\$	362,546
Amortization	\$	588,074
OM&A	\$	402,576
Subtotal	\$	1,353,195
PILS	\$	10,932
Incremental Revenue Req't for 2012	\$	<u>1,364,127</u>

	# meters installed	%	weighted average meter price	Total Meter Costs	%
	A		B	A * B	
Residential	44,891	91%	\$86.15	\$3,867,525	66%
GS < 50 kW	4,594	9%	\$438.39	\$2,013,979	34%
	<u>49,485</u>	<u>100%</u>		<u>\$5,881,504</u>	<u>100%</u>

	Return	Amortization	OM&A	Subtotal	PILS	Total	% Total
Residential	\$238,401	\$386,702	\$365,202	\$990,305	\$8,000	\$998,305	73%
GS < 50 kW	\$124,145	\$201,372	\$37,374	\$362,890	\$2,932	\$365,822	27%
Incremental Revenue Req't for 2012	<u>\$362,546</u>	<u>\$588,074</u>	<u>\$402,576</u>	<u>\$1,353,195</u>	<u>\$10,932</u>	<u>\$1,364,127</u>	<u>100%</u>

	2012 Forecasted customers	SMIRR \$	SMIRR	SMIRR
Residential	44,605	\$998,305	\$1.87	\$2.24
GS < kW	4,457	<u>\$365,822</u>	\$6.84	\$8.21
			12 months	10 months

Below is a summary of the SMDR and SMIRR rate riders as requested by the Board to be calculated with an implementation date of July 1, 2012:

	SMDR	SMIRR
Residential	-\$1.58	\$2.24
GS < kW	\$4.19	\$8.21
Duration	22 months	10 months

Proposed Tariff of Rates and Charges

Attached as **Appendix B** is the proposed Tariff of Rates and Charges which combines the interim rates effective May 1, 2012 in TBHEDI's IRM application EB-2011-0197 and the above SMDR and SMIRR rate riders in EB-2012-0015 for its Smart Meter Cost Recovery application. TBHEDI requests that the Board approve the proposed Tariff of Rates and Charges as final.

All of which is respectfully submitted



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Thunder Bay Hydro Electricity Distribution Inc.
Tillsonburg Hydro Inc.

Application Contact Information

Name: Jenni Pajala

Title: Supervisor of Regulatory Affairs

Phone Number: 807-343-1016

Email Address: jpajala@tbhydro.on.ca

We are applying for rates effective: May 1, 2012

Last COS Re-based Year: 2009

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

Thunder Bay Hydro Electricity Distribution 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

	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	0	0	0	43,168	1,400	323	0	44891
General Service < 50 kW	0	0	0	3,781	671	142	0	4594
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	0	46949	2071	465	0	49485
Percentage of Residential and GS < 50 kW Smart Meter installations Completed	0.00%	0.00%	0.00%	94.88%	99.06%	100.00%	0.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed	0	0	0	0	0	0	0	0
Other (please identify)	0	0	0	0	0	0	0	0
Total Number of Smart Meters installed or planned to be installed	0	0	0	46949	2071	465	0	49485

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	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Unaudited Actual	Forecast	
Smart Meter				\$ 649,205	\$ 60,956	\$ 62,302		\$ 5,772,463
Smart Meter				\$ 665,347	\$ 174,796	\$ 74,923		\$ 915,065
Computer Hardware				\$ 28,529				\$ 28,529
Computer Software				\$ 46,707	\$ 233			\$ 47,000
	\$ -	\$ -	\$ -	\$ 6,389,848	\$ 235,985	\$ 137,224	\$ -	\$ 6,763,057

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 seats 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	Unaudited Actual	Forecast	
Smart Meter				\$ 204,436				\$ 204,436
Smart Meter					\$ 4,693			\$ 4,693
Smart Meter				\$ 386,580	\$ -5,451	\$ 6,269		\$ 387,407
	\$ -	\$ -	\$ -	\$ 591,026	\$ 758	\$ 6,269	\$ -	\$ 596,537

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	Unaudited Actual	Forecast	
Computer Hardware								\$ -
Computer Software								\$ -
Computer Software				\$ 172,961	\$ 72,472	\$ 2,408		\$ 247,840
	\$ -	\$ -	\$ -	\$ 172,961	\$ 72,472	\$ 2,408	\$ -	\$ 247,840

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	Unaudited Actual	Forecast	
Smart Meter				\$ 38,784	\$ 44,441			\$ 83,225
	\$ -	\$ -	\$ -	\$ 38,784	\$ 44,441	\$ -	\$ -	\$ 83,225

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	Unaudited Actual	Forecast	
Smart Meter				\$ 29,910	\$ 14,560			\$ 44,470
Computer Software								\$ -
Smart Meter				\$ 63,210		\$ 70,000		\$ 133,210
Smart Meter								\$ -
Smart Meter				\$ 162,549	\$ 23,848	\$ 3,481		\$ 189,878
Smart Meter				\$ 19,946	\$ 32,115			\$ 52,061
	\$ -	\$ -	\$ -	\$ 275,615	\$ 70,523	\$ 73,481	\$ -	\$ 419,620
	\$ -	\$ -	\$ -	\$ 7,468,233	\$ 422,663	\$ 219,382	\$ -	\$ 8,110,278

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 MDNR, etc.

Total Capital Costs Beyond Minimum Functionality

Total Smart Meter Capital Costs

Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Unaudited Actual	Forecast	
Smart Meter								\$ -
Applications Software								\$ -
Computer Software						\$ 21,362		\$ 21,362
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,362	\$ -	\$ 21,362
	\$ -	\$ -	\$ -	\$ 7,468,233	\$ 422,663	\$ 240,744	\$ -	\$ 8,131,640

2 OM&A Expenses

2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Unaudited Actual	Forecast	
2.1.1 Maintenance (may include meter reactivation costs, etc.)				7,021	2,199	533		\$ 9,752
2.1.2 Other (please specify)								\$ -
Total Incremental AMCD OM&A Costs	\$ -	\$ -	\$ -	7,021	2,199	533		\$ 9,752
2.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
2.2.1 Maintenance								\$ -
2.2.2 Other (please specify) Cellular communication to AMI Network fees					33,025	77,571	70,000	\$ 180,596
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ -	33,025	77,571	70,000	\$ 180,596
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.)				4,772	49,591	87,563	140,016	\$ 281,941
2.3.2 Other (please specify)								\$ -
Total Incremental AMCC OM&A Costs	\$ -	\$ -	\$ -	4,772	49,591	87,563	140,016	\$ 281,941
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			52,193	-5,536	51,111	25,256	8,800	\$ 131,824
2.5.4 Change Management (may include training, etc.)								\$ -
2.5.5 Administration Costs						11,307	8,000	\$ 19,307
2.5.6 Other AMI Expenses (please specify)			7,167	225,432	464,157	482,716	453,570	\$ 1,633,041
Total Other AMI OM&A Costs Related to Minimum Functionality	\$ -	\$ -	59,360	219,896	515,268	519,280	470,370	\$ 1,784,173
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY	\$ -	\$ -	59,360	231,688	600,081	684,947	680,386	\$ 2,256,462
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 MDMR, etc.						30,177	84,736	\$ 114,912
Total OM&A Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ -	\$ -	30,177	84,736	\$ 114,912
Total Smart Meter OM&A Costs	\$ -	\$ -	59,360	231,688	600,081	715,124	765,121	\$ 2,371,374

3 Aggregate Smart Meter Costs by Category

3.1	Capital							
3.1.1	Smart Meter	\$ -	\$ -	\$ -	7,219,977	\$ 349,958	\$ 216,974	\$ 7,786,909
3.1.2	Computer Hardware	\$ -	\$ -	\$ -	28,529	\$ -	\$ -	\$ 28,529
3.1.3	Computer Software	\$ -	\$ -	\$ -	219,728	\$ 72,705	\$ 23,770	\$ 316,203
3.1.4	Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.5	Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.6	Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.7	Total Capital Costs	\$ -	\$ -	\$ -	7,468,233	\$ 422,663	\$ 240,744	\$ 8,131,640
3.2	OM&A Costs							
3.2.1	Total OM&A Costs	\$ -	\$ -	59,360	231,688	600,081	715,124	\$ 2,371,374



Ontario Energy Board Smart Meter Model

Thunder Bay Hydro Electricity Distribution Inc.

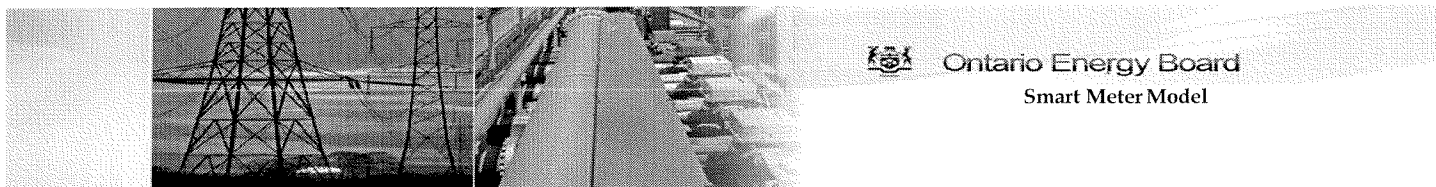
	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure ¹							
Deemed Short-term Debt Capitalization			0.0%				
Deemed Long-term Debt Capitalization			100.0%	100.0%	100.0%	100.0%	100.0%
Deemed Equity Capitalization	100.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Preferred Shares							
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate							
Long-term Debt Rate (actual/embedded/deemed) ²		0.00%					
Target Return on Equity (ROE)		0.00%					
Return on Preferred Shares							
WACC	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Working Capital Allowance							
Working Capital Allowance Rate (% of the sum of Cost of Power + controllable expenses)	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	32.83%	29.61%	25.74%	23.91%
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%	8%	8%	8%	8%
Computer Equipment - CCA Class	50	50	50	50	50	50	50
Computer Equipment - CCA Rate	55%	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							
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.



Thunder Bay Hydro Electricity Distribution Inc.

	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 7,219,977	\$ 7,569,935	\$ 7,786,909
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 7,219,977	\$ 349,958	\$ 216,974	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 7,219,977	\$ 7,569,935	\$ 7,786,909	\$ 7,786,909
Accumulated Depreciation							
Opening Balance		\$ -	\$ -	\$ -	\$ 240,666	\$ 733,063	\$ 1,245,558
Amortization expense during year	\$ -	\$ -	\$ -	\$ 240,666	\$ 492,997	\$ 511,895	\$ 510,127
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 240,666	\$ 733,663	\$ 1,245,558	\$ 1,764,685
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 6,979,311	\$ 6,836,272	\$ 6,541,351
Closing Balance	\$ -	\$ -	\$ -	\$ 6,979,311	\$ 6,836,272	\$ 6,541,351	\$ 6,022,224
Average Net Book Value	\$ -	\$ -	\$ -	\$ 3,489,655	\$ 6,907,791	\$ 6,688,811	\$ 6,281,787
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 28,529	\$ 28,529	\$ 28,529
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 28,529	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 28,529	\$ 28,529	\$ 28,529	\$ 28,529
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 2,853	\$ 8,559	\$ 14,264
Amortization expense during year	\$ -	\$ -	\$ -	\$ 2,853	\$ 5,706	\$ 5,706	\$ 5,706
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 2,853	\$ 8,559	\$ 14,264	\$ 19,970
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 25,676	\$ 19,970	\$ 14,264
Closing Balance	\$ -	\$ -	\$ -	\$ 25,676	\$ 19,970	\$ 14,264	\$ 8,559
Average Net Book Value	\$ -	\$ -	\$ -	\$ 12,838	\$ 22,823	\$ 17,117	\$ 11,411
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 219,728	\$ 292,433	\$ 316,203
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 219,728	\$ 72,705	\$ 23,770	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 219,728	\$ 292,433	\$ 316,203	\$ 316,203
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 21,973	\$ 73,189	\$ 134,052
Amortization expense during year	\$ -	\$ -	\$ -	\$ 21,973	\$ 51,216	\$ 60,864	\$ 63,241
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 21,973	\$ 73,189	\$ 134,052	\$ 197,293
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 197,755	\$ 219,244	\$ 182,151
Closing Balance	\$ -	\$ -	\$ -	\$ 197,755	\$ 219,244	\$ 182,151	\$ 118,910
Average Net Book Value	\$ -	\$ -	\$ -	\$ 98,878	\$ 208,500	\$ 200,697	\$ 150,530
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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Ontario Energy Board Smart Meter Model

Thunder Bay Hydro Electricity Distribution Inc.

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 3,489,655	\$ 6,907,791	\$ 6,688,811	\$ 6,281,787
Computer Hardware	\$ -	\$ -	\$ -	\$ 12,838	\$ 22,823	\$ 17,117	\$ 11,411
Computer Software	\$ -	\$ -	\$ -	\$ 98,878	\$ 208,500	\$ 200,697	\$ 150,530
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ -	\$ 3,601,371	\$ 7,139,114	\$ 6,906,626	\$ 6,443,729
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ 59,360	\$ 22,776	\$ 196,572	\$ 328,456	\$ 402,576
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ 8,904	\$ 3,416	\$ 29,486	\$ 49,268	\$ 60,386
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ 8,904	\$ 3,604,787	\$ 7,168,600	\$ 6,955,894	\$ 6,504,115
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ 8,904	\$ 3,604,787	\$ 7,168,600	\$ 6,955,894	\$ 6,504,115
Equity	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ 8,904	\$ 3,604,787	\$ 7,168,600	\$ 6,955,894	\$ 6,504,115
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equity	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating Expenses	\$ -	\$ -	\$ 59,360	\$ 22,776	\$ 196,572	\$ 328,456	\$ 402,576
Debt Financing Expenses (Thunder Bay Hydro-specific)				\$ 208,912	\$ 403,510	\$ 386,668	\$ 362,546
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 240,666	\$ 492,997	\$ 511,895	\$ 519,127
Computer Hardware	\$ -	\$ -	\$ -	\$ 2,853	\$ 5,706	\$ 5,706	\$ 5,706
Computer Software	\$ -	\$ -	\$ -	\$ 21,973	\$ 51,216	\$ 60,864	\$ 63,241
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ -	\$ 265,492	\$ 549,919	\$ 578,464	\$ 588,074
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ 59,360	\$ 497,180	\$ 1,150,000	\$ 1,293,588	\$ 1,353,195
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ 59,360	\$ 22,776	\$ 196,572	\$ 328,456	\$ 402,576
Amortization Expense	\$ -	\$ -	\$ -	\$ 265,492	\$ 549,919	\$ 578,464	\$ 588,074
Interest Expense	\$ -	\$ -	\$ -	\$ 208,912	\$ 403,510	\$ 386,668	\$ 362,546
Net Income for Taxes/PILs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ -	\$ 28,553.52	\$ 52,558.82	\$ 16,395.39	\$ 10,931.92
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ 59,360	\$ 468,626	\$ 1,097,441	\$ 1,277,192	\$ 1,364,127



Ontario Energy Board

Smart Meter Model

Thunder Bay Hydro Electricity Distribution Inc.

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	\$ -	\$ -	\$ -	\$ -	\$ 6,931,177.51	\$ 6,712,643.08	\$ 6,383,926.71
Capital Additions	\$ -	\$ -	\$ -	\$ 7,219,976.57	\$ 349,958.09	\$ 216,974.04	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 7,219,976.57	\$ 7,281,135.60	\$ 6,929,617.12	\$ 6,383,926.71
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 3,609,988.29	\$ 174,979.05	\$ 108,487.02	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 3,609,988.29	\$ 7,106,156.56	\$ 6,821,130.10	\$ 6,383,926.71
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 288,799.06	\$ 568,492.52	\$ 545,690.41	\$ 510,714.14
Closing UCC	\$ -	\$ -	\$ -	\$ 6,931,177.51	\$ 6,712,643.08	\$ 6,383,926.71	\$ 5,873,212.57

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	\$ -	\$ -	\$ -	\$ -	\$ 179,985.98	\$ 133,704.93	\$ 77,400.47
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 28,528.68	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ 219,727.85	\$ 72,705.15	\$ 23,770.00	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 248,256.53	\$ 252,691.14	\$ 157,474.93	\$ 77,400.47
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 124,128.26	\$ 36,352.58	\$ 11,885.00	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 124,128.26	\$ 216,338.56	\$ 145,589.93	\$ 77,400.47
CCA Rate Class	50	50	50	50	50	50	50
CCA Rate	55%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ 68,270.55	\$ 118,986.21	\$ 80,074.46	\$ 42,570.26
Closing UCC	\$ -	\$ -	\$ -	\$ 179,985.98	\$ 133,704.93	\$ 77,400.47	\$ 34,830.21

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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

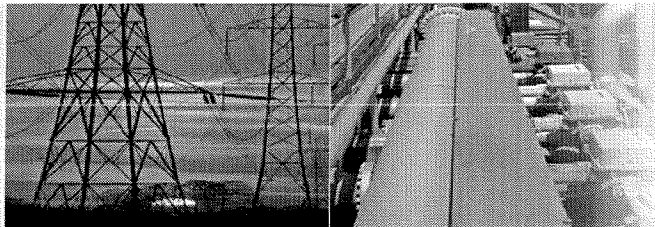


Ontario Energy Board Smart Meter Model

Thunder Bay Hydro Electricity Distribution Inc.

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	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization	\$ -	\$ -	\$ -	\$ 265,491.54	\$ 549,918.86	\$ 578,464.12	\$ 588,073.58
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 288,799.06	\$ 568,492.52	\$ 545,690.41	\$ 510,714.14
CCA - Computers	\$ -	\$ -	\$ -	\$ 68,270.55	\$ 118,986.21	\$ 80,074.46	\$ 42,570.26
CCA - Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ -	\$ 91,578.07	\$ 137,559.87	\$ 47,300.75	\$ 34,789.19
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	32.83%	29.61%	25.74%	23.91%
Income Taxes Payable	\$ -	\$ -	\$ -	\$ 30,065.08	\$ 40,731.48	\$ 12,175.21	\$ 8,318.10
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ -	\$ 6,979,310.69	\$ 6,836,271.74	\$ 6,541,351.00	\$ 6,022,223.75
Computer Hardware	\$ -	\$ -	\$ -	\$ 25,675.81	\$ 19,970.08	\$ 14,264.34	\$ 8,558.60
Computer Software (Including Application Software)	\$ -	\$ -	\$ -	\$ 197,755.06	\$ 219,244.13	\$ 182,150.53	\$ 118,909.93
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ -	\$ 7,202,741.56	\$ 7,075,485.95	\$ 6,737,765.87	\$ 6,149,692.29
Less: Exemption	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ -	\$ 7,202,741.56	\$ 7,075,485.95	\$ 6,737,765.87	\$ 6,149,692.29
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)	\$ -	\$ -	\$ -	\$ 16,206.17	\$ 5,306.61	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 30,065.08	\$ 40,731.48	\$ 12,175.21	\$ 8,318.10
Change in OCT	\$ -	\$ -	\$ -	\$ 16,206.17	\$ 5,306.61	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 13,858.91	\$ 35,424.86	\$ 12,175.21	\$ 8,318.10
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	32.83%	29.61%	25.74%	23.91%
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 44,759.68	\$ 57,865.43	\$ 16,395.39	\$ 10,931.92
Change in OCT	\$ -	\$ -	\$ -	\$ 16,206.17	\$ 5,306.61	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 28,553.52	\$ 52,558.82	\$ 16,395.39	\$ 10,931.92



Ontario Energy Board

Smart Meter Model

Thunder Bay Hydro Electricity Distribution 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	\$ -	\$ 587.46	4.14%	\$ -	\$ 587.46		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ 587.46	\$ 6,566.57	4.14%	\$ 2.03	\$ 7,156.06		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ 7,154.03	\$ 10,982.38	4.59%	\$ 27.36	\$ 18,163.77		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ 18,136.41	\$ 14,470.34	4.59%	\$ 69.37	\$ 32,676.12		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ 32,606.75	\$ 11,975.49	4.59%	\$ 124.72	\$ 44,706.96		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ 44,582.24	\$ 13,215.19	4.59%	\$ 170.53	\$ 57,967.96		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ 57,797.43	\$ 13,749.97	4.59%	\$ 221.08	\$ 71,768.48		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ 71,547.40	\$ 12,170.66	4.59%	\$ 273.67	\$ 83,991.73	\$ 84,606.82	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ 83,718.06	\$ 15,052.17	4.59%	\$ 320.22	\$ 99,090.45		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ 98,770.23	\$ 11,154.70	4.59%	\$ 377.80	\$ 110,302.73		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ 109,924.93	\$ 15,066.21	4.59%	\$ 420.46	\$ 125,411.60		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ 124,991.14	\$ 11,618.32	4.59%	\$ 478.09	\$ 137,087.55		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ 136,609.46	\$ 15,877.34	4.59%	\$ 522.53	\$ 153,009.33		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ 152,486.80	\$ 12,301.38	4.59%	\$ 583.26	\$ 165,371.44		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ 164,788.18	\$ 14,189.22	4.59%	\$ 630.31	\$ 179,607.71		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ 178,977.40	\$ 12,946.82	4.59%	\$ 684.59	\$ 192,608.81		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ 191,924.22	\$ 10,592.08	4.59%	\$ 734.11	\$ 203,250.41		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ 202,516.30	\$ 14,163.62	5.14%	\$ 867.44	\$ 217,547.36		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ 216,679.92	\$ 13,795.35	5.14%	\$ 928.11	\$ 231,403.38		
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ 230,475.27	\$ 11,543.64	5.14%	\$ 987.20	\$ 243,006.11	\$ 165,834.97	
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ 242,018.91	\$ 16,018.68	5.14%	\$ 1,036.65	\$ 259,074.24		
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ 258,037.59	\$ 11,640.01	5.14%	\$ 1,105.26	\$ 270,782.86		
2012 Q3		4.29%	Mar-08	2008	Q1	\$ 269,677.60	\$ 12,192.00	5.14%	\$ 1,155.12	\$ 283,024.72		
2012 Q4		4.29%	Apr-08	2008	Q2	\$ 281,869.60	\$ 14,338.87	4.08%	\$ 958.36	\$ 297,166.83		
			May-08	2008	Q2	\$ 296,208.47	\$ 13,045.01	4.08%	\$ 1,007.11	\$ 310,260.59		
			Jun-08	2008	Q2	\$ 309,253.48	\$ 14,480.28	4.08%	\$ 1,051.46	\$ 324,785.22		
			Jul-08	2008	Q3	\$ 323,733.76	\$ 14,691.11	3.35%	\$ 903.76	\$ 339,328.63		
			Aug-08	2008	Q3	\$ 338,424.87	\$ 10,897.02	3.35%	\$ 944.77	\$ 350,266.66		
			Sep-08	2008	Q3	\$ 349,321.89	\$ 13,660.77	3.35%	\$ 975.19	\$ 363,957.85		
			Oct-08	2008	Q4	\$ 362,982.66	\$ 13,492.53	3.35%	\$ 1,013.33	\$ 377,488.52		
			Nov-08	2008	Q4	\$ 376,475.19	\$ 12,290.12	3.35%	\$ 1,050.99	\$ 389,816.30		
			Dec-08	2008	Q4	\$ 388,765.31	\$ 13,649.79	3.35%	\$ 1,085.30	\$ 403,500.40	\$ 172,683.49	
			Jan-09	2009	Q1	\$ 402,415.10	\$ 14,420.31	2.45%	\$ 821.60	\$ 417,657.01		
			Feb-09	2009	Q1	\$ 416,835.41	\$ 10,429.47	2.45%	\$ 851.04	\$ 428,115.92		
			Mar-09	2009	Q1	\$ 427,264.88	\$ 17,182.86	2.45%	\$ 872.33	\$ 445,320.07		
			Apr-09	2009	Q2	\$ 444,447.74	\$ 12,002.90	1.00%	\$ 370.37	\$ 456,821.01		
			May-09	2009	Q2	\$ 456,450.64	\$ 12,323.68	1.00%	\$ 380.38	\$ 469,154.70		
			Jun-09	2009	Q2	\$ 468,774.32	\$ 14,742.13	1.00%	\$ 390.65	\$ 483,907.10		
			Jul-09	2009	Q3	\$ 483,516.45	\$ 25,762.44	0.55%	\$ 221.61	\$ 509,500.50		
			Aug-09	2009	Q3	\$ 509,278.89	\$ 72,838.60	0.55%	\$ 233.42	\$ 582,350.91		
			Sep-09	2009	Q3	\$ 582,117.49	\$ 166,920.98	0.55%	\$ 266.80	\$ 749,305.27		
			Oct-09	2009	Q4	\$ 749,038.47	\$ 141,021.06	0.55%	\$ 343.31	\$ 890,402.84		
			Nov-09	2009	Q4	\$ 890,059.53	\$ 105,171.46	0.55%	\$ 407.94	\$ 995,638.93		
			Dec-09	2009	Q4	\$ 995,230.99	\$ 102,353.10	0.55%	\$ 456.15	\$ 1,098,040.24	\$ 700,784.59	
			Jan-10	2010	Q1	\$ 1,097,584.09	\$ 101,005.31	0.55%	\$ 503.06	\$ 1,199,092.46		
			Feb-10	2010	Q1	\$ 1,198,589.40	\$ 75,747.45	0.55%	\$ 549.35	\$ 1,274,886.20		
			Mar-10	2010	Q1	\$ 1,274,336.85	\$ 119,231.13	0.55%	\$ 584.07	\$ 1,394,152.05		
			Apr-10	2010	Q2	\$ 1,393,567.98	\$ 96,310.52	0.55%	\$ 638.72	\$ 1,490,517.22		
			May-10	2010	Q2	\$ 1,489,878.50	\$ 85,619.84	0.55%	\$ 682.86	\$ 1,576,181.20		
			Jun-10	2010	Q2	\$ 1,575,498.34	\$ 106,622.69	0.55%	\$ 722.10	\$ 1,682,843.13		
			Jul-10	2010	Q3	\$ 1,682,121.03	\$ 92,941.15	0.89%	\$ 1,247.57	\$ 1,776,309.75		
			Aug-10	2010	Q3	\$ 1,775,062.18	\$ 92,248.54	0.89%	\$ 1,316.50	\$ 1,868,627.22		
			Sep-10	2010	Q3	\$ 1,867,310.72	\$ 102,447.63	0.89%	\$ 1,384.92	\$ 1,971,143.27		
			Oct-10	2010	Q4	\$ 1,969,758.35	\$ 81,718.59	1.20%	\$ 1,969.76	\$ 2,053,446.70		
			Nov-10	2010	Q4	\$ 2,051,476.94	\$ 103,388.94	1.20%	\$ 2,051.48	\$ 2,156,917.36		
			Dec-10	2010	Q4	\$ 2,154,865.88	\$ 91,336.51	1.20%	\$ 2,154.87	\$ 2,248,357.26	\$ 1,162,423.56	
			Jan-11	2011	Q1	\$ 2,246,202.39	\$ 103,472.03	1.47%	\$ 2,751.60	\$ 2,352,426.02		
			Feb-11	2011	Q1	\$ 2,349,674.42	\$ 80,028.51	1.47%	\$ 2,878.35	\$ 2,432,581.28		
			Mar-11	2011	Q1	\$ 2,429,702.93	\$ 115,180.73	1.47%	\$ 2,976.39	\$ 2,547,860.05		
			Apr-11	2011	Q2	\$ 2,544,883.66	\$ 79,882.59	1.47%	\$ 3,117.48	\$ 2,627,883.73		
			May-11	2011	Q2	\$ 2,624,766.25	\$ 105,224.63	1.47%	\$ 3,215.34	\$ 2,733,206.22		
			Jun-11	2011	Q2	\$ 2,729,990.88	\$ 101,688.50	1.47%	\$ 3,344.24	\$ 2,835,023.62		



Ontario Energy Board

Smart Meter Model

Thunder Bay Hydro Electricity Distribution 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)
			Jul-11	2011	Q3	\$ 2,831,679.38	\$ 102,902.03	1.47%	\$ 3,468.81	\$ 2,938,050.22		
			Aug-11	2011	Q3	\$ 2,934,581.41	\$ 92,413.22	1.47%	\$ 3,594.86	\$ 3,030,589.49		
			Sep-11	2011	Q3	\$ 3,026,994.63	\$ 104,060.60	1.47%	\$ 3,708.07	\$ 3,134,763.30		
			Oct-11	2011	Q4	\$ 3,131,055.23	\$ 91,262.82	1.47%	\$ 3,835.54	\$ 3,226,153.59		
			Nov-11	2011	Q4	\$ 3,222,318.05	\$ 103,998.80	1.47%	\$ 3,947.34	\$ 3,330,264.19		
			Dec-11	2011	Q4	\$ 3,326,316.85	\$ 80,508.29	1.47%	\$ 4,074.74	\$ 3,410,899.88	\$ 1,201,535.51	
			Jan-12	2012	Q1	\$ 3,406,825.14	\$ 125,039.16	1.47%	\$ 4,173.36	\$ 3,536,037.66		
			Feb-12	2012	Q1	\$ 3,531,864.30	\$ 81,304.99	1.47%	\$ 4,326.53	\$ 3,617,495.82		
			Mar-12	2012	Q1	\$ 3,613,169.29	\$ 69,171.67	1.47%	\$ 4,426.13	\$ 3,686,767.09		
			Apr-12	2012	Q2	\$ 3,682,340.96	\$ 79,882.59	1.47%	\$ 4,510.87	\$ 3,766,734.42		
			May-12	2012	Q2	\$ 3,762,223.55	\$ 105,224.63	1.47%	\$ 4,608.72	\$ 3,872,056.90		
			Jun-12	2012	Q2	\$ 3,867,448.18	\$ 91,519.65	1.47%	\$ 4,737.62	\$ 3,963,705.45		
			Jul-12	2012	Q3	\$ 3,958,967.83	\$ -	0.00%	\$ -	\$ 3,958,967.83		
			Aug-12	2012	Q3	\$ 3,958,967.83	\$ -	0.00%	\$ -	\$ 3,958,967.83		
			Sep-12	2012	Q3	\$ 3,958,967.83	\$ -	0.00%	\$ -	\$ 3,958,967.83		
			Oct-12	2012	Q4	\$ 3,958,967.83	\$ -	0.00%	\$ -	\$ 3,958,967.83		
			Nov-12	2012	Q4	\$ 3,958,967.83	\$ -	0.00%	\$ -	\$ 3,958,967.83		
			Dec-12	2012	Q4	\$ 3,958,967.83	\$ -	0.00%	\$ -	\$ 3,958,967.83	\$ 578,925.92	
Total Funding Adder Revenues Collected						\$	3,958,967.83		\$ 107,827.03	\$ 4,066,794.86	\$ 4,066,794.86	



Thunder Bay Hydro Electricity Distribution Inc.

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	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-			-	4.59%	-	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-			-	4.59%	-	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-			-	4.59%	-	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-			-	4.59%	-	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-			-	4.59%	-	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	-			-	5.14%	-	-
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	-			-	5.14%	-	-
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	-			-	5.14%	-	-
2012 Q3	0.00%	4.29%	Mar-08	2008	Q1	-			-	5.14%	-	-
2012 Q4	0.00%	4.29%	Apr-08	2008	Q2	17,168.63	\$ 17,168.63		59,359.63	4.08%	58.37	58.37
			May-08	2008	Q2	59,359.63	\$ 42,191.00		59,359.63	4.08%	201.82	260.20
			Jun-08	2008	Q2	59,359.63			59,359.63	4.08%	201.82	462.02
			Jul-08	2008	Q3	59,359.63			59,359.63	3.35%	165.71	627.73
			Aug-08	2008	Q3	59,359.63			59,359.63	3.35%	165.71	793.44
			Sep-08	2008	Q3	59,359.63			59,359.63	3.35%	165.71	959.16
			Oct-08	2008	Q4	59,359.63			59,359.63	3.35%	165.71	1,124.87
			Nov-08	2008	Q4	59,359.63			59,359.63	3.35%	165.71	1,290.58
			Dec-08	2008	Q4	59,359.63		\$ 1,475.18	60,834.81	3.35%	165.71	1,456.29
			Jan-09	2009	Q1	60,834.81	\$ -	\$ 53.91	60,888.72	2.45%	124.20	1,580.50
			Feb-09	2009	Q1	60,888.72	\$ 428.06	\$ 53.91	61,370.69	2.45%	124.31	1,704.81
			Mar-09	2009	Q1	61,370.69	\$ 425.22	\$ 53.91	61,849.82	2.45%	125.30	1,830.11
			Apr-09	2009	Q2	61,849.82	\$ 15,740.49	\$ 1,154.51	78,744.82	1.00%	51.54	1,881.65
			May-09	2009	Q2	78,744.82	\$ 9,578.87	\$ 8,834.54	78,000.49	1.00%	65.62	1,947.27
			Jun-09	2009	Q2	78,000.49	\$ 4,044.90	\$ 15,060.23	97,105.62	1.00%	65.00	2,012.27
			Jul-09	2009	Q3	97,105.62	\$ 1,884.43	\$ 21,961.07	120,951.12	0.55%	44.51	2,056.78
			Aug-09	2009	Q3	120,951.12	\$ 5,733.75	\$ 26,367.08	153,051.95	0.55%	55.44	2,112.22
			Sep-09	2009	Q3	153,051.95	\$ 3,615.91	\$ 31,305.21	187,973.07	0.55%	70.15	2,182.36
			Oct-09	2009	Q4	187,973.07	\$ 15,343.91	\$ 37,116.93	240,433.91	0.55%	86.15	2,268.52
			Nov-09	2009	Q4	240,433.91	\$ 3,013.50	\$ 39,474.79	282,922.20	0.55%	110.20	2,378.72
			Dec-09	2009	Q4	282,922.20	\$ 13,483.29	\$ 38,926.85	308,365.76	0.55%	129.67	2,508.39
			Jan-10	2010	Q1	308,365.76	\$ 1,837.73	\$ 40,898.56	351,102.05	0.55%	141.33	2,649.72
			Feb-10	2010	Q1	351,102.05	\$ 9,323.96	\$ 41,292.32	401,718.33	0.55%	160.92	2,810.65
			Mar-10	2010	Q1	401,718.33	\$ 7,134.41	\$ 40,368.80	449,221.54	0.55%	184.12	2,994.77
			Apr-10	2010	Q2	449,221.54	\$ 4,420.37	\$ 40,956.52	494,598.43	0.55%	205.89	3,200.66
			May-10	2010	Q2	494,598.43	\$ 5,846.27	\$ 41,531.42	541,976.12	0.55%	226.69	3,427.35
			Jun-10	2010	Q2	541,976.12	\$ 16,498.55	\$ 41,997.14	600,471.81	0.55%	248.41	3,675.76
			Jul-10	2010	Q3	600,471.81	\$ 17,080.99	\$ 42,253.16	659,805.96	0.89%	445.35	4,121.11
			Aug-10	2010	Q3	659,805.96	\$ 31,807.70	\$ 42,369.24	733,982.90	0.89%	480.36	4,601.46
			Sep-10	2010	Q3	733,982.90	\$ 21,626.50	\$ 42,513.16	798,122.56	0.89%	544.37	5,154.83
			Oct-10	2010	Q4	798,122.56	\$ 25,606.82	\$ 42,811.28	866,540.66	1.20%	798.12	5,952.96
			Nov-10	2010	Q4	866,540.66	\$ 29,346.99	\$ 42,947.38	938,835.03	1.20%	866.54	6,819.50
			Dec-10	2010	Q4	938,835.03	\$ 22,665.17	\$ 42,845.17	1,004,345.37	1.20%	938.84	7,758.33
			Jan-11	2011	Q1	1,004,345.37	\$ 12,028.86	\$ 42,987.25	1,059,361.48	1.47%	1,230.32	8,988.65
			Feb-11	2011	Q1	1,059,361.48	\$ 27,537.02	\$ 43,158.98	1,130,057.48	1.47%	1,297.72	10,286.37
			Mar-11	2011	Q1	1,130,057.48	\$ 19,814.44	\$ 43,244.31	1,192,916.23	1.47%	1,384.32	11,670.69
			Apr-11	2011	Q2	1,192,916.23	\$ 34,195.17	\$ 43,244.32	1,270,355.72	1.47%	1,461.32	13,132.02
			May-11	2011	Q2	1,270,355.72	\$ 33,391.84	\$ 43,376.38	1,347,123.94	1.47%	1,556.19	14,688.20
			Jun-11	2011	Q2	1,347,123.94	\$ 17,515.96	\$ 43,428.28	1,408,068.18	1.47%	1,650.23	16,338.43
			Jul-11	2011	Q3	1,408,068.18	\$ 34,314.13	\$ 43,458.62	1,485,840.93	1.47%	1,724.88	18,063.31
			Aug-11	2011	Q3	1,485,840.93	\$ 34,159.92	\$ 43,507.31	1,563,508.16	1.47%	1,820.16	19,883.47
			Sep-11	2011	Q3	1,563,508.16	\$ 22,056.20	\$ 43,606.69	1,629,171.05	1.47%	1,915.30	21,798.76
			Oct-11	2011	Q4	1,629,171.05	\$ 22,671.46	\$ 43,619.24	1,695,461.75	1.47%	1,995.73	23,794.50
			Nov-11	2011	Q4	1,695,461.75	\$ 29,948.64	\$ 43,686.81	1,769,097.20	1.47%	2,076.94	25,871.44
			Dec-11	2011	Q4	1,769,097.20	\$ 41,461.26	\$ 43,686.82	1,854,245.28	1.47%	2,167.14	28,038.58
			Jan-12	2012	Q1	1,854,245.28			1,854,245.28	1.47%	2,271.45	30,310.03
			Feb-12	2012	Q1	1,854,245.28			1,854,245.28	1.47%	2,271.45	32,581.48
			Mar-12	2012	Q1	1,854,245.28			1,854,245.28	1.47%	2,271.45	34,852.93
			Apr-12	2012	Q2	1,854,245.28			1,854,245.28	1.47%	2,271.45	37,124.39
			May-12	2012	Q2	1,854,245.28			1,854,245.28	1.47%	2,271.45	39,395.84
			Jun-12	2012	Q2	1,854,245.28			1,854,245.28	1.47%	2,271.45	41,667.29
			Jul-12	2012	Q3	1,854,245.28			1,854,245.28	0.00%	-	41,667.29
			Aug-12	2012	Q3	1,854,245.28			1,854,245.28	0.00%	-	41,667.29
			Sep-12	2012	Q3	1,854,245.28			1,854,245.28	0.00%	-	41,667.29
			Oct-12	2012	Q4	1,854,245.28			1,854,245.28	0.00%	-	41,667.29
			Nov-12	2012	Q4	1,854,245.28			1,854,245.28	0.00%	-	41,667.29
			Dec-12	2012	Q4	1,854,245.28			1,854,245.28	0.00%	-	41,667.29
						\$ 608,618.00	\$ 1,245,627.28	\$ 1,854,245.28				



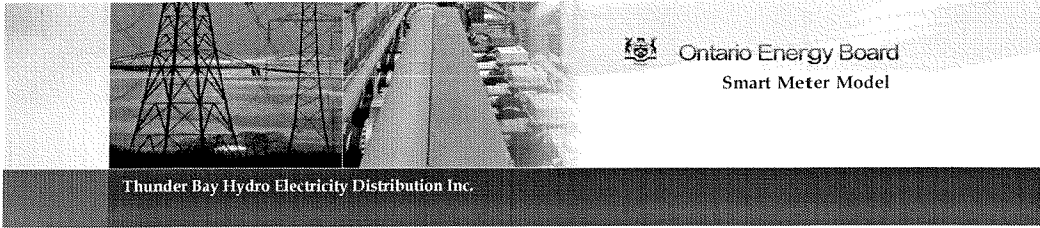
Ontario Energy Board

Smart Meter Model

Thunder Bay Hydro Electricity Distribution Inc.

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	\$ 59,359.70	\$ -	\$ 59,359.70	\$ 29,679.85	3.98%	\$ 1,181.26
2009	\$ 22,776.03	\$ 265,491.54	\$ 347,627.27	\$ 203,493.48	1.14%	\$ 2,314.74
2010	\$ 196,571.79	\$ 549,918.86	\$ 1,094,117.92	\$ 720,872.60	0.80%	\$ 5,748.96
2011	\$ 328,455.95	\$ 578,464.12	\$ 2,001,037.99	\$ 1,547,577.95	1.47%	\$ 22,749.40
2012	\$ 402,575.83	\$ 588,073.58	\$ 2,991,687.40	\$ 2,496,362.69	1.47%	\$ 36,696.53
Cumulative Interest to 2011						\$ 31,994.35
Cumulative Interest to 2012						\$ 68,690.88



Thunder Bay Hydro Electricity Distribution Inc.

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

Check if applicable

- ☐ Smart Meter Funding Adder (SMFA)
- ☒ Smart Meter Disposition Rider (SMDR) 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)	\$ -	\$ -	\$ 59,359.70	\$ 468,626.23	\$ 1,097,441.41	\$ 1,277,192.34	\$ 1,384,126.93	\$ 4,286,746.62
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ 1,456.29	\$ 1,052.10	\$ 5,249.94	\$ 20,280.25		\$ 28,038.58
☒ Sheet 8A (Interest calculated on monthly balances)	\$ -	\$ -	\$ 1,456.29	\$ 1,052.10	\$ 5,249.94	\$ 20,280.25		\$ 28,038.58
☐ Sheet 8B (Interest calculated on average annual balances)								\$ -
SMFA Revenues (from Sheet 8)	\$ 83,718.06	\$ 158,300.85	\$ 160,396.19	\$ 695,168.09	\$ 1,148,618.30	\$ 1,160,622.75	\$ 552,142.69	\$ 3,958,967.83
SMFA Interest (from Sheet 8)	\$ 888.76	\$ 7,534.12	\$ 12,287.30	\$ 5,615.60	\$ 13,805.26	\$ 40,912.76	\$ 26,783.23	\$ 107,827.03
Net Deferred Revenue Requirement	-\$ 84,606.82	-\$ 165,834.07	-\$ 111,867.50	-\$ 231,106.26	-\$ 59,732.20	\$ 95,937.08	\$ 785,201.01	\$ 227,990.34

Number of Metered Customers (average for 2012 test year) 49062

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

Years for collection or refunding	2	
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 2,930,658.27	
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 4,066,794.86	
Net Deferred Revenue Requirement	-\$ 1,136,136.59	
SMDR May 1, 2012 to April 30, 2014	-\$ 0.96	Match
Check: Forecasted SMDR Revenues	-\$ 1,130,388.48	

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

Incremental Revenue Requirement for 2012	\$ 1,364,126.93	
SMIRR	\$ 2.32	Match
Check: Forecasted SMIRR Revenues	\$ 1,365,886.08	

APPENDIX B

**Thunder Bay Hydro Electricity Distribution Inc.
TARIFF OF RATES AND CHARGES
Effective Date May 1, 2012
Implementation Date May 1, 2012**

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

EB-2011-0197

RESIDENTIAL SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	9.85
Smart Meter Disposition - commence July 1/12 (SMDR) - Effective Until April 30/14	\$	-1.58
Smart Meter Incremental Rev Req't - commence July 1/12 (SMIRR) - Effective Until April 30/13	\$	2.24
Distribution Volumetric Rate	\$/kWh	0.0124
LRAM Rate Rider (2012) - Effective Until April 30, 2013	\$/kWh	0.00004
Tax Charge Rate Rider - Effective Until April 30, 2013	\$/kWh	-0.0003
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kWh	-0.0034
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kWh	-0.0003
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0064
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0049

MONTHLY RATES AND CHARGES – Regulatory Component

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

GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	17.84
Smart Meter Disposition - commence July 1/12 (SMDR) - Effective Until April 30/14	\$	4.19
Smart Meter Incremental Rev Req't - commence July 1/12 (SMIRR) - Effective Until April 30/13	\$	8.21
Distribution Volumetric Rate	\$/kWh	0.013
LRAM Rate Rider (2012) - Effective Until April 30, 2013	\$/kWh	0.0002
Tax Charge Rate Rider - Effective Until April 30, 2013	\$/kWh	-0.0002
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kWh	-0.003
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kWh	-0.0003
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0061
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0046

MONTHLY RATES AND CHARGES – Regulatory Component

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

Thunder Bay Hydro Electricity Distribution Inc.
TARIFF OF RATES AND CHARGES
Effective Date May 1, 2012
Implementation Date May 1, 2012

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

EB-2011-0197

GENERAL SERVICE 50 TO 999 KW SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	241.78
Distribution Volumetric Rate	\$/kW	1.3603
LRAM Rate Rider (2012) - Effective Until April 30, 2013	\$/kW	0.00011
Tax Charge Rate Rider - Effective Until April 30, 2013	\$/kW	-0.041
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kW	-0.9127
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kW	-0.1051
Retail Transmission Rate – Network Service Rate	\$/kW	2.43
Retail Transmission Rate – Network Service Rate – Interval Metered	\$/kW	2.5777
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.7458
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	\$/kW	1.9295

MONTHLY RATES AND CHARGES – Regulatory Component

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

GENERAL SERVICE 1,000 TO 4,999 KW SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	2794.55
Distribution Volumetric Rate	\$/kW	2.2314
Tax Charge Rate Rider - Effective Until April 30, 2013	\$/kW	-0.0371
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kW	-0.7755
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kW	-0.0924
Retail Transmission Rate – Network Service Rate	\$/kW	2.5777
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.9295

MONTHLY RATES AND CHARGES – Regulatory Component

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

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	8.91
Distribution Volumetric Rate	\$/kWh	0.013
Tax Charge Rate Rider - Effective Until April 30, 2013	\$/kWh	-0.0005
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kWh	-0.0044
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kWh	-0.0003
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0061
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0046

MONTHLY RATES AND CHARGES – Regulatory Component

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

Thunder Bay Hydro Electricity Distribution Inc.
TARIFF OF RATES AND CHARGES
Effective Date May 1, 2012
Implementation Date May 1, 2012

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

EB-2011-0197

SENTINEL LIGHTING SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	6.40
Distribution Volumetric Rate	\$/kW	5.135
Tax Charge Rate Rider - Effective Until April 30, 2013	\$/kW	-0.4698
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kW	-2.4061
Retail Transmission Rate – Network Service Rate	\$/kW	1.842
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3779

MONTHLY RATES AND CHARGES – Regulatory Component

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

STREET LIGHTING SERVICE CLASSIFICATION

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	2.16
Distribution Volumetric Rate	\$/kW	13.061
Tax Charge Rate Rider - Effective Until April 30, 2013	\$/kW	-0.2863
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kW	-1.5474
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kW	-0.1097
Retail Transmission Rate – Network Service Rate	\$/kW	1.8325
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3496

MONTHLY RATES AND CHARGES – Regulatory Component

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

microFIT GENERATOR SERVICE CLASSIFICATION

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

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	5.25
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ALLOWANCES

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

SPECIFIC SERVICE CHARGES

APPLICATION

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

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

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

Customer Administration

Arrears certificate	\$	15.00
Statement of account	\$	15.00
Easement letter	\$	15.00
Account history	\$	15.00
Returned cheque charge (plus bank charges)	\$	25.00
Legal letter charge	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Special meter reads	\$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	30.00

Non-Payment of Account

Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Disconnect/Reconnect at meter - during regular hours	\$	65.00
Disconnect/Reconnect at meter - after regular hours	\$	185.00
Disconnect/Reconnect at pole - during regular hours	\$	185.00
Disconnect/Reconnect at pole - after regular hours	\$	415.00
Install/Remove load control device - during regular hours	\$	65.00
Install/Remove load control device - after regular hours	\$	185.00
Service call - customer-owned equipment	\$	30.00
Service Call - Customer-owned Equipment - After Regular Hours	\$	165.00
Specific Charge for Access to the Power Poles - per pole/year	\$	22.35

Thunder Bay Hydro Electricity Distribution Inc.
TARIFF OF RATES AND CHARGES
Effective Date May 1, 2012
Implementation Date May 1, 2012

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors
RETAIL SERVICE CHARGES (if applicable)

APPLICATION

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

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

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

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

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

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

LOSS FACTORS

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

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0448
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0343