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March 8, 2013

Ms. Kirsten Walli  
Board Secretary  
Ontario Energy Board  
P.O. Box 2319, 27<sup>th</sup> Floor  
2300 Yonge Street  
Toronto, Ontario  
M4P 1E4

Dear Ms. Walli:

**Re: Atikokan Hydro Inc.  
Board File No. EB-2013-0019 Smart Meter Incremental Rate Application**

Atikokan Hydro Inc. ("Atikokan") is pleased to submit to the Ontario Energy Board (the "Board") its Smart Meter Incremental Application as directed to in the Board Decision and Order BE-2011-0293.

Atikokan's EB-2013-0019 Smart Meter incremental application will be filed as follows :

- (a) Electronic filing through the Board's web portal, consisting of one (1) electronic copy of the application in searchable /unrestricted PDF format, one (1) copy of smart meter model Atikokan\_Hydro\_2013\_Smart\_Meter\_Model\_V3 01AHI\_EB-2013-0019\_20130308.xlsm and
- (b) Two (2) paper copies of the application along with a CD of the above (item (a)).

We would be pleased to provide any further information or details that you may require relative to this application.

Sincerely,

A handwritten signature in black ink that reads "Wilf Thorburn". The signature is written in a cursive style with a large, stylized "W" and "T".

Wilf Thorburn  
CEO/Secretary/Treasurer  
Atikokan Hydro Inc.

**Atikokan Hydro Inc.**

**Incremental Smart Meter Disposition Rider Application**

**And**

**Smart Meter Incremental Revenue Requirement Application**

**Manager's Summary**

**EB-2013-0019**

**March 4, 2013**

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## Introduction

Atikokan Hydro Inc. (“Atikokan Hydro”) is a licensed electricity distributor (ED-2003-0001) that owns and operates an electricity distribution system that provides service to the Town of Atikokan.

Atikokan filed a Cost of Service application EB-2011-0293 (the “Application”) with the Ontario Energy Board (the “Board”) on September 30, 2011 under section 78 of the Ontario Energy Board Act, 1998, S.O. 1998, c. 15, (Schedule B), seeking approval for changes to the rates that Atikokan charges for electricity distribution, to be effective May 1, 2012. The Board assigned the Application file number EB-2011-0293.

The following excerpt is from pages 30 – 31 of the Decision and Order relating to EB-2011-0293.

The Board agrees with the concerns raised by Board staff and VECC in their submissions. The significant increases in the smart meter costs identified in responses to interrogatories is concerning. Considering that Atikokan’s smart meter costs were reviewed, albeit not in the context of a detailed review of the prudence of all costs, in the context of an application for an increased Smart Meter Funding Adder in mid-2010 [EB-2010-0185], the Board expected more detailed evidence on smart meter costs in this Application.

The Board will accept VECC’s proposal and allow for recovery of 50% of the requested smart meter costs at this time. The Board will direct the Regulatory Accounting and Audit branch of the Board to conduct an audit of Atikokan’s smart meter costs. The results of the audit will be considered by the Board with respect to the final amounts to be authorized for recovery in a future application to be filed by Atikokan no later than 6 months from the completion of the subject audit.

The Regulatory Accounting and Audit branch of the Board has completed their audit as requested by the Board.

The Board has assigned EB-2013-0019 as the file number to continue this proceeding. The Board has provided smart meter model `Atikokan_Hydro_2013_Smart_Meter_Model_V3 01AHI_EB-2013-0019_20130308.xlsm` to further assist in this proceeding.

This resulted in the capital costs in the cost of service application EB-2011-0293 being reduced by \$64,660. The final audited allowable capital costs were \$442,038. The Board Decision and Order for EB-2011-0293 allowed for 50% of the amount originally claimed, or \$253,349 to be recovered in rates. The recovery for this amount was addressed in the final rate order. This application, EB-2013-0019, seeks an incremental recovery for the disposition of the difference of the Board approved amount [50%] and the result of the regulatory audit which is \$188,689 for capital cost for smart meters. This is shown in table 1.

Similarly, the audit resulted in the OM&A costs being reduced by \$50,472 when compared to the cost of service application EB-2011-0293. The final audited allowable costs were \$173,465. The Board Decision and Order for EB-2011-0293 allowed for 50% of the amount originally claimed, or \$112,104 to be recovered in rates. The recovery for this amount was addressed in the final rate order. This application EB-2013-0019, seeks an incremental recovery for the disposition of \$61,632 for OM&A costs for smart meters [which is the difference between the Board approved amount [50%] and the results of the Regulatory audit.

Smart meter costs before and after the audit adjustments and the resulting incremental costs on a total cost basis are displayed in table 1.

**Table 1**

<b>Smart Meter Costs Before and After Audit Adjustments and Incremental Costs on a Total Cost Basis</b>					
<b>Smart Meter Costs on a Total Basis</b>	<b>Before Audit (Original Request in EB-2011-0293) A</b>	<b>Audit Adjustments B</b>	<b>After Audit Costs C= A+B</b>	<b>Approved Costs in EB-2011-0293 D = A x 50%</b>	<b>Incremental Smart Meter Costs E = C-D</b>
Capital Costs	506,698	-64,660	442,038	253,349	188,689
OM&A Costs	224,207	-50,742	173,465	112,104	61,362
<b>Total Costs</b>	<b>730,905</b>	<b>-115,402</b>	<b>615,503</b>	<b>365,453</b>	<b>250,051</b>

Smart meter costs before and after audit adjustments and the resulting incremental costs on a per meter basis are displayed in table 2.

**Table 2**

<b>Smart Meter Costs Before and After Audit Adjustments and Incremental Costs on a per meter Basis</b>					
<b>Smart Meter Costs on a Total Basis</b>	<b>Before Audit (Original Request in EB-2011-0293) A</b>	<b>Audit Adjustments B</b>	<b>After Audit Costs C= A+B</b>	<b>Approved Costs in EB-2011-0293 D = A x 50%</b>	<b>Incremental Smart Meter Costs E = C-D</b>
Capital Costs	303	-39	264	152	113
OM&A Costs	134	-30	104	67	37
<b>Total Costs</b>	<b>437</b>	<b>-69</b>	<b>368</b>	<b>219</b>	<b>150</b>

The rates proposed in this application are incremental to those approved by the Board in its Decision and Order for CoS application EB-2011-0293. Atikokan Hydro is seeking to have incremental smart meter disposal rates approved to recover both the Capital and OM&A amounts confirmed by the Regulatory audit as well as the smart meter incremental revenue requirement rate rider.

## Application

The process to arrive at the values in this application was to consider the values approved by the regulatory audit and the values approved in the Decision and Order of June 18, 2012. The values approved in the Decision and order of June 18, 2012, were 50% of the amount Atikokan Hydro had presented in its cost of service application process, and were the amounts audited by the Regulatory audit group. The input for the model, "Atikokan\_Hydro\_2013\_Smart\_Meter\_Model\_V3 01AHI\_EB-2013-0019\_20130308.xlsm," is the result of the amounts confirmed by the regulatory audit minus the 50% Board approved amount to arrive at incremental amounts for both the Smart Meter Disposition Rider (per metered customer per month) and the Smart Meter Incremental Revenue Requirement Rate Rider (per metered customer per month).

On January 18, 2013, during year end processes, Atikokan Hydro noticed that it had overcharged customers by continuing a smart meter funding adder from May 1, 2012 until August 31, 2012. Atikokan Hydro has notified both Board Secretary and the Regulatory Accounting and Audit Branch of the OEB.

Atikokan over-collected an amount of 23K from its customers for the period of May 1, 2012 to August 31, 2012 through its SMFA that had been approved by the Board in Atikokan's 2011 IRM Decision and Order EB-2010-0064. The Board had approved a sunset date of April 30, 2012 for the Atikokan's SMFA in Atikokan's Decision and Order EB-2010-0064<sup>1</sup>.

This Audit covered the examination of Atikokan's smart meter costs claim from 2009 to 2011 in the CoS rate application EB-2011-0293. However, on January 18, 2013, Atikokan informed Regulatory Audit that it over-collected an amount of \$23,192 for the SMFA from its customers for the period of May 1, 2012 to August 31, 2012. The Board had approved a sunset date of April 30, 2012 for the Atikokan's SMFA in Atikokan's Decision and Order EB-2010-0064. On January 21, 2013, Atikokan filed a letter with the Board informing this matter and proposed to refund the over-collected amount to its customers as part of the stand-alone smart meter rate application EB-2013-0019. In the letter, Atikokan also stated that it would work with Regulatory Audit to confirm the amount and the period of the over-collection.

Based on the information provided and procedures performed, Regulatory Audit reviewed the amount and the period of the over-collection by Atikokan and determined that Atikokan had

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<sup>1</sup> Page 16, section 7.5.1 of "Atikokan Hydro\_Audit Review\_Smart meter\_March 2013"

indeed over-collected from its customers an amount of \$23,192 related to the SMFA for the period of May 1, 2012 to August 31, 2012.<sup>2</sup>

Atikokan Hydro has included the overcharge as a funding adder in its current smart meter application EB-2013-0019. The overcharge amounted to \$ 23,191.65 plus carrying charges of \$156.86 for 2012. Atikokan Hydro is proposing a June 30, 2013 implementation date for EB- 2013-0019. The model has included an additional \$170.46 interest for the period Jan 1, 2013 to June 30, 2013 for a total customer credit of \$23,519.

Atikokan should have ceased the collection of the SMFA on April 30, 2012 per Atikokan's 2011 IRM Decision and Order EB-2010-0064. Atikokan needs to address the over-collection issue in its stand-alone smart meter rate application EB-2013-0019.<sup>3</sup>

Table 3, below, shows the incremental costs based on a total cost basis and the incremental costs on a per meter basis for both the Smart Meter Disposal Rate Rider and the Smart meter incremental revenue requirement rider. These rates are not allocated by customer class at this point in the application.

**Table 3**

**Incremental Smart Meter Recovery amounts as calculated from the smart meter model on an unallocated cost per meter, adjusted for a 26 month rate**

Smart Meter Costs per meter	Incremental Smart Meter Costs on a total cost basis	Incremental Smart Meter Costs on a per meter cost basis	Unallocated cost per meter per month as per Board Regulatory Audit	Incremental Unallocated cost per meter per month as per current application
Capital Costs per meter	188,689	113		
OM&A Costs per meter	61,362	37		
<b>Total Costs per meter</b>	<b>250,051</b>	<b>150</b>	3.62	<b>2.87</b>
SMIRR			2.73	<b>1.14</b>

### Smart Meter Disposition Rider [incremental]

Atikokan Hydro is asking for a June 30, 2013 implementation date for the recovery amounts with a sunset date of August 31, 2015. This will result in a 26 month recovery period for the Incremental Smart Meter Disposition Rider, ending August 31, 2015.

<sup>2</sup> Page 16, section 7.5.2 of "Atikokan Hydro\_Audit Review\_Smart meter\_March 2013"

<sup>3</sup> Page 17, section 7.5.3 of "Atikokan Hydro\_Audit Review\_Smart meter\_March 2013"

Rate Rider for Disposition of Residual Historical Smart Meter Costs [residential] – effective until August 31, 2015 \$ 0.48  
Rate<sup>4</sup>

This will provide consistency for the customer, as well as ensuring that Atikokan Hydro will only have one set of rate adjustments to make when the smart meter disposition riders are completed.

## Weighted Meter Cost – Capital

Weighted Meter Cost – Capital Allocated per class				
Types of meters - customer classes	Customer count	Cost	Average cost per meter	% of total cost by customer class
Total Capital cost of meters		442,038		
GS 50 to 4999 kW		18,971		4.29%
GS < 50 kW		72,551		16.41%
Residential		350,516		79.30%
Total number of meters installed	1673			
Total meters installed for Residential	1427			
Total number of GS<50 meters installed	224			
Total number GS 50 to 4999 kW meters installed	22			
Total capital cost/meter			264	

The table above compares the capital costs on a per customer class ratio. These percentages are used to determine the weighted capital cost per meter to be allocated per customer class in tab 10A in the smart meter model “Atikokan\_Hydro\_2013\_Smart\_Meter\_Model\_V3 01AHI\_EB-2013-0019\_20130308.xlsm.”

<sup>4</sup> Appendix A To Decision and Order Draft Tariff of Rates and Charges Board File No: EB-2011-0293 page 6 DATED: August 23, 2012



Table 4 shows the calculation for the incremental smart meter disposition recovery as dollars per month per metered customer by customer class. The 2.17 years is the equivalent of 26 month recovery period requested. The data is extracted from tab 10A of "Atikokan\_Hydro\_2013\_Smart\_Meter\_Model\_V3 01AHI\_EB-2013-0019\_20130308.xlsm."

**Table 4**

Smart Meter Disposition Rider (\$/month per metered customer in the customer class) adjusted for a 26 month recovery period			
	Residential	GS < 50 kW	GS 50 to 4999 kW
Average number of customers (2013)	1427	224	22
Total Incremental Allocation per customer class	103,635.34	18,731.35	3,504.24
Years for incremental collection	2.17	2.17	2.17
Incremental Amount per customer per month	2.79	3.21	6.12

### Smart Meter Incremental Revenue Requirement Rate Rider

The SMIRR is recovered as an annualized rate until the effective date of Atikokan Hydro's next rebased rates resulting from a cost of service application.

Table 5 shows the calculation for the Smart Meter Incremental Revenue Requirement Rate Rider (\$/month per metered customer in the customer class). The data is extracted from tab 10B of "Atikokan\_Hydro\_2013\_Smart\_Meter\_Model\_V3 01AHI\_EB-2013-0019\_20130308.xlsm."

**Table 5**

Smart Meter Incremental Revenue Requirement Rate Rider (\$/month per metered customer in the customer class)			
	Residential	GS < 50 kW	GS 50 to 4999 kW
Average number of customers (2013)	1427	224	22
Total Incremental SMIRR Allocation per customer class	\$18,151.44	\$3,736.32	\$979.44
Incremental cost ongoing until next CoS			
Incremental Amount per customer per month	\$1.06	\$1.39	\$3.71

## Bill Impact

Atikokan has used 581 kWh as an average monthly consumption for its residential customer class. This was the kWh used for bill impacts in EB-2011-0293 cost of service study. The resulting overall rate impact is 3.88% as shown in table 6. If 800 kWh were used, the bill impacts would be 3.07% for the residential customer class.

**Table 6**

Consumption		581 kWh							
Charge Unit	Current Board-Approved			Proposed			Impact		
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
Monthly Service Charge	\$ 33.9900	1	\$ 33.99	\$ 33.9900	1	\$ 33.99	\$ -	0.00%	
Smart Meter Rate Adder	\$ -	1	\$ -		1	\$ -	\$ -		
Service Charge Rate Adder(s)		1	\$ -		1	\$ -	\$ -		
Service Charge Rate Rider(s)	\$ 0.8523	1	\$ 0.85	\$ 0.8523	1	\$ 0.85	\$ -	0.00%	
Distribution Volumetric Rate	\$ 0.0134	581	\$ 7.79	\$ 0.0134	581	\$ 7.79	\$ -	0.00%	
Low Voltage Rate Adder		581	\$ -		581	\$ -	\$ -		
Volumetric Rate Adder(s)		581	\$ -		581	\$ -	\$ -		
Volumetric Rate Rider(s)		581	\$ -		581	\$ -	\$ -		
Smart Meter Disposition Rider	monthly	581	\$ -		581	\$ -	\$ -		
LRAM & SSM Rate Rider		581	\$ -		581	\$ -	\$ -		
Deferral/Variance Account Disposition Rate Rider	\$ 0.0009	581	\$ 0.54	\$ 0.0009	581	\$ 0.54	\$ -	0.00%	
Smart Meter Cost Rec Rider	monthly	\$ 0.4839	1	\$ 0.48	\$ 0.4839	1	\$ 0.48	\$ -	0.00%
Stranded Meter Rider	monthly	\$ 0.3900	1	\$ 0.39	\$ 0.3900	1	\$ 0.39	\$ -	0.00%
Incremental SMDR	monthly	\$ -		\$ -	\$ 2.7900	1	\$ 2.79	\$ 2.79	
Incremental SMIR	monthly	\$ -	1	\$ -	\$ 1.1400	1	\$ 1.14	\$ 1.14	
<b>Sub-Total A - Distribution</b>			<b>\$ 44.04</b>			<b>\$ 47.97</b>	<b>\$ 3.93</b>	<b>8.92%</b>	
RTSR - Network	\$ 0.0063	626.22	\$ 3.95	\$ 0.0063	626.22	\$ 3.95	\$ -	0.00%	
RTSR - Line and Transformation Connection	\$ 0.0036	626.22	\$ 2.27	\$ 0.0036	626.22	\$ 2.27	\$ -	0.00%	
<b>Sub-Total B - Delivery (including Sub-Total A)</b>			<b>\$ 50.26</b>			<b>\$ 54.19</b>	<b>\$ 3.93</b>	<b>7.82%</b>	
Wholesale Market Service Charge (WMSC)	\$ 0.0052	626.22	\$ 3.26	\$ 0.0052	626.22	\$ 3.26	\$ -	0.00%	
Rural and Remote Rate Protection (RRRP)	\$ 0.0011	626.22	\$ 0.69	\$ 0.0011	626.22	\$ 0.69	\$ -	0.00%	
Special Purpose Charge		626.22	\$ -		626.22	\$ -	\$ -		
Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	
Debt Retirement Charge (DRC)	\$ 0.0070	581	\$ 4.07	\$ 0.0070	581	\$ 4.07	\$ -	0.00%	
Energy		626.22	\$ -		626.22	\$ -	\$ -		
Cost of Power first 600	\$ 0.0680	600	\$ 40.80	\$ 0.0680	600	\$ 40.80	\$ -	0.00%	
Cost of Power remaining	\$ 0.0790	26.22	\$ 2.07	\$ 0.0790	26.22	\$ 2.07	\$ -	0.00%	
<b>Total Bill (before Taxes)</b>			<b>\$ 101.39</b>			<b>\$ 105.32</b>	<b>\$ 3.93</b>	<b>3.88%</b>	
HST	13%		\$ 13.18	13%		\$ 13.69	\$ 0.51	3.88%	
<b>Total Bill (including Sub-total B)</b>			<b>\$ 114.58</b>			<b>\$ 119.02</b>	<b>\$ 4.44</b>	<b>3.88%</b>	
Ontario Clean Energy Benefit (OCEB)		-10%	<b>-\$ 11.46</b>		-10%	<b>-\$ 11.90</b>	<b>-\$ 0.44</b>	<b>3.84%</b>	
<b>Total Bill (including OCEB)</b>			<b>\$ 103.12</b>			<b>\$ 107.12</b>	<b>\$ 4.00</b>	<b>3.88%</b>	

## Summary

In summary, Atikokan Hydro is applying for an incremental disposition rate rider as well as an incremental revenue requirement rate rider. In its Decision and Order of EB-2011-0293 [dec\_order\_atikokan\_20120618] the Board noted: “The Board will accept VECC’s proposal and allow for recovery of 50% of the requested smart meter costs at this time. The Board will direct the Regulatory Accounting and Audit branch of the Board to conduct an audit of Atikokan’s smart meter costs. The results of the audit will be considered by the Board with respect to the final amounts to be authorized for recovery in a future application to be filed by Atikokan no later than 6 months from the completion of the subject audit.”<sup>5</sup>

The Regulatory Accounting and Audit branch of the Board has completed their audit. The before audit capital costs [table 1] were \$506,698 on a total cost basis. Regulatory Audit adjustments were -\$64,660 resulting in audited smart meter capital costs of \$442,038. The Board had approved 50% of the initial application smart meter capital costs or \$253,349 for disposal. The results of the Regulatory Audit process support an additional incremental recovery amount of \$188,689 of capital costs on a total cost basis.

Table 2 has depicted initial capital costs on a per meter basis at \$303. Regulatory Audit adjustments were -\$39 leaving a Regulatory Audit cost of \$264 per meter. The Board had approved \$152 per meter for disposal. The results of the Regulatory Audit process support an additional incremental recovery amount of \$113 of capital costs on a cost per meter basis.

Similarly, the before audit OM&A costs [table 1] were \$224,207 on a total cost basis. Regulatory Audit adjustments were -\$50,742 resulting in audited smart meter OM&A costs of \$173,465. The Board had approved 50% of the initial application smart meter OM&A costs or \$112,104 for disposal. The results of the Regulatory Audit process support an additional incremental recovery amount of \$61,362 of OM&A costs on a total cost basis.

Similarly, the before audit OM&A costs [table 1] were \$134 per meter on a per meter cost basis. Regulatory Audit adjustments were -\$30 per meter resulting in audited smart meter OM&A costs of \$104 per meter. The Board had approved 50% of the initial application smart meter OM&A costs or \$67 for disposal. The results of the Regulatory Audit process support an additional incremental recovery amount of \$37 of OM&A costs on a total cost basis.

Atikokan Hydro has completed the board issued smart meter model [Atikokan\_Hydro\_2013\_Smart\_Meter\_Model\_V3 01AHI\_EB-2013-0019\_20130308] using the incremental smart meter costs. As noted on page 5 of this application, Atikokan Hydro became aware of an overcharge to customers of \$23,191.95 due to a missed sunset date in EB-2010-0064 Decision and Order. The \$23,195.91 as well as \$156.86 interest for 2012 and an additional \$170.46 interest for the period of January 2013 to June 30, 2013 have been entered into the appropriate area of the model [Tab 8].

The final results of the application EB-2013-0019 support Atikokan’s request for an incremental SMDR to be effective from June 30, 2013 until August 31, 2015. This will result in a total of \$125,871 of an incremental allocation from all classes. The per customer class rates as noted in table 4 for a period of 26 months [2.17 years] are:

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<sup>5</sup> Page 31 of dec\_order\_atikokan\_20120618

1. Residential class \$2.79 per month
2. General service less than 50 kW \$3.21 per month
3. General service greater than 50 kW \$6.12 per month

The total SMIRR will be \$22,867 allocated to be collected from all classes at the per customer class rates noted in table 5. The SMIRR will be collected until Atikokan Hydro completes the next Cost of Service application. The per customer class rates as noted in table 5 are:

1. Residential class \$1.06 per month
2. General Service less than 50 kW \$1.39 per month
3. General Service greater than 50 kW \$3.71 per month.

Atikokan Hydro respectfully submits this application for Board Consideration.



## Smart Meter Model for Electricity Distributors (2013 Filers)

Version 3.01AH

Utility Name	Aikokan Hydro Inc.
Assigned EB Number	EB-2013-0019
Name and Title	Will Thorburn CEO / Sec / Treas
Phone Number	807-597-6600
Email Address	will.thorburn@aihydro.com
Date	25-Jan-12
Last COS Re-based Year	2012

Note: Drop-down lists are shaded blue; input cells are shaded green.

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.

Algoma Power Inc.  
 Atikokan Hydro Inc.  
 Attawapiskat Power Corporation  
 Bluewater Power Distribution Corp.  
 Brant County Power  
 Bradford Power Inc.  
 Burlington Hydro Inc.  
 Cambridge and North Dumfries Hydro  
 Canadian Niagara Power Inc. – Eastern Ontario Power/Fort Erie/Port Colborne  
 Centre Wellington Hydro I & II  
 Cheneau Public Utilities Commission  
 CDS IHS Power Corp  
 Cooperative Hydro Embarras Inc.  
 E.L.K. Energy Inc.  
 Enersource Hydro Mississauga Inc.  
 Entegris Powerlines Inc.  
 ENWIN Utilities Ltd.  
 Erie Thames Powerlines Corp.  
 Espanola Regional Hydro Distribution Corporation  
 Essex Powerlines Corporation  
 Festival Hydro Inc.  
 Fort Albany Power Corporation  
 Fort Frances Power Corporation  
 Greater Sudbury Hydro Inc.  
 Grimsby Power Inc.  
 Guelph Hydro Electric Systems Inc.  
 Haldimand County Hydro Inc.  
 Halton Hills Hydro Inc.  
 Hearst Power Distribution Co. Ltd.  
 Horizon Utilities Corporation  
 Hydro 2000 Inc.  
 Hydro One/Sudbury Inc.  
 Hydro One Brampton Networks Inc.  
 Hydro One Networks Inc.  
 Hydro One Remote Communities Inc.  
 Hydro Ottawa Limited  
 Inverell Hydro Dist. Systems Limited  
 Kitchener Power Corporation  
 Kenora Hydro Electric Corporation Ltd.  
 Kingston Hydro Corporation  
 Kitchener-Wilmot Hydro Inc.  
 Lakelront Utilities Inc.  
 Lakelront Power Distribution Ltd.  
 London Hydro Inc.  
 Midland Power Utility Corporation  
 Milton Hydro Distribution Inc.  
 Newmarket – Tay Power Distribution Ltd.  
 Niagara Peninsula Energy Inc.  
 Niagara-on-the-Lake Hydro Inc.  
 Norfolk Power Distribution Ltd.  
 North Bay Hydro Distribution Limited  
 Northern Ontario Wires Inc.  
 Oakville Hydro Distribution Inc.  
 Orangeville Hydro Limited  
 Orlino Power Distribution Corp.  
 Oshawa PUC Networks Inc.  
 Ottawa River Power Corporation  
 Parry Sound Power Corporation  
 Peterborough Distribution Inc.  
 PowerStream Inc.  
 PUC Distribution Inc.  
 Randow Hydro Inc.  
 Rideau St. Lawrence Distribution Inc.  
 St. Thomas Energy Inc.  
 Sioux Lookout Hydro Inc.  
 Thunder Bay Hydro Electricity Distribution  
 Tillsonburg Hydro Inc.  
 Toronto Hydro Electric System Limited  
 Veridian Connections Inc.  
 Wasaga Distribution Inc.  
 Waterloo North Hydro Inc.  
 Welland Hydro Electric System Corp.  
 Wellington North Power Inc.  
 West Coast Kuroi Energy Inc.  
 Westario Power Inc.  
 Whitby Hydro Electric Corporation  
 Woodstock Hydro Services Inc.



## Smart Meter Model for Electricity Distributors (2013 Filers)

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

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

### Smart Meter Capital Cost and Operational Expense Data

#### Smart Meter Installation Plan

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

Residential

General Service < 50 kW

Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)

Percentage of Residential and GS < 50 kW Smart Meter Installations Completed

Actual/Planned number of GS > 50 kW meters installed

Other (please identify)

Total Number of Smart Meters installed or planned to be installed

	2006	2007	2008	2009	2010	2011	2012	2013	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
Residential				1,427					1427
General Service < 50 kW				159	65				224
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	0	1586	65	0	0	0	1651
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	0.00%	96.06%	100.00%	0.00%	100.00%	0.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed						22			22
Other (please identify)									0
Total Number of Smart Meters installed or planned to be installed	0	0	0	1586	65	22	0	0	1673

### 1 Capital Costs

#### 1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)

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

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

1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)

1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)

Total Advanced Metering Communications Devices (AMCD)

Asset Type  
Asset type must be  
selected to enable  
calculations

	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
Smart Meter				82,374	16,748	633			\$ 99,755
Smart Meter				18,058	-2,467	-1,244			\$ 14,347
Computer Hardware				4,220					\$ 4,220
									\$ -
Total Advanced Metering Communications Devices (AMCD)	\$ -	\$ -	\$ -	\$ 104,652	\$ 14,281	\$ 611	\$ -	\$ -	\$ 118,322

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

1.2.1 Collectors

1.2.2 Repeaters (may include radio licence, etc.)

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

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

	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
Smart Meter				6,932		1,124			\$ 8,056
Smart Meter					368				\$ 368
									\$ -
Total Advanced Metering Regional Collector (AMRC) (Includes LAN)	\$ -	\$ -	\$ -	\$ 6,932	\$ 368	\$ 1,124	\$ -	\$ -	\$ 8,424

**1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)**

1.3.1 Computer Hardware

Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
Smart Meter				6,590	238				\$ 6,829
1.3.2 Computer Software				26,560					\$ 26,560
Smart Meter				12,506					\$ 12,506
1.3.3 Computer Software Licences & Installation (includes hardware and software) <i>(may include AS/400 disk space, backup and recovery computer, UPS, etc.)</i>									
<b>Total Advanced Metering Control Computer (AMCC)</b>	\$ -	\$ -	\$ -	\$ 45,657	\$ 238	\$ -	\$ -	\$ -	\$ 45,895

**1.4 WIDE AREA NETWORK (WAN)**

1.4.1 Activation Fees

Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
									\$ -
<b>Total Wide Area Network (WAN)</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

**1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY**

1.5.1 Customer Equipment *(including repair of damaged equipment)*

Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
Smart Meter				729					\$ 729
1.5.2 AMI Interface to CIS									\$ -
1.5.3 Professional Fees				3,558					\$ 3,558
Smart Meter									\$ -
1.5.4 Integration									\$ -
1.5.5 Program Management				22,254	14,442	-7,088			\$ 29,608
Smart Meter				-25,782					\$ -25,782
1.5.6 Other AMI Capital									\$ -
<b>Total Other AMI Capital Costs Related to Minimum Functionality</b>	\$ -	\$ -	\$ -	\$ 758	\$ 14,442	\$ -7,088	\$ -	\$ -	\$ 8,112
<b>Total Capital Costs Related to Minimum Functionality</b>	\$ -	\$ -	\$ -	\$ 157,998	\$ 29,329	\$ -6,575	\$ -	\$ -	\$ 180,752

**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

Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
									\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service					8,585	-649			\$ 7,937
Smart Meter									\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc.									\$ -
Smart Meter									\$ -
<b>Total Capital Costs Beyond Minimum Functionality</b>	\$ -	\$ -	\$ -	\$ -	\$ 8,585	\$ -649	\$ -	\$ -	\$ 7,937
<b>Total Smart Meter Capital Costs</b>	\$ -	\$ -	\$ -	\$ 157,998	\$ 37,915	\$ -7,224	\$ -	\$ -	\$ 188,689

**2 OM&A Expenses**

2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)

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

2.1.2 Other (please specify)

**Total Incremental AMCD OM&A Costs**

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

2.2.1 Maintenance

2.2.2 Other (please specify)

**Total Incremental AMRC OM&A Costs**

2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

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

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

2.3.2 Other (please specify)

**Total Incremental AMCC OM&A Costs**

**2.4 WIDE AREA NETWORK (WAN)**

2.4.1 WAN Maintenance

2.4.2 Other (please specify)

**Total Incremental AMRC OM&A Costs**

**2.5 OTHER AMI OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY**

2.5.1 Business Process Redesign

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

2.5.3 Program Management

2.5.4 Change Management (may include training, etc.)

2.5.5 Administration Costs

2.5.6 Other AMI Expenses

(please specify)

**Total Other AMI OM&A Costs Related to Minimum Functionality**

**TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY**

**2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY**

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

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

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

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

**Total OM&A Costs Beyond Minimum Functionality**

**Total Smart Meter OM&A Costs**

	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
2.1.1 Maintenance (may include meter reverification costs, etc.)									\$ -
2.1.2 Other (please specify)				6,716	12,008	14,492			\$ 33,216
<b>Total Incremental AMCD OM&amp;A Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 6,716</u>	<u>\$ 12,008</u>	<u>\$ 14,492</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 33,216</u>
2.2.1 Maintenance									\$ -
2.2.2 Other (please specify)									\$ -
<b>Total Incremental AMRC OM&amp;A Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
2.3.1 Hardware Maintenance (may include server support, etc.)									\$ -
2.3.2 Software Maintenance (may include maintenance support, etc.)				8,418	3,770	3,599			\$ 15,788
2.3.2 Other (please specify)									\$ -
<b>Total Incremental AMCC OM&amp;A Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 8,418</u>	<u>\$ 3,770</u>	<u>\$ 3,599</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 15,788</u>
2.4.1 WAN Maintenance									\$ -
2.4.2 Other (please specify)				900	1,800	1,800			\$ 4,500
<b>Total Incremental AMRC OM&amp;A Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 900</u>	<u>\$ 1,800</u>	<u>\$ 1,800</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 4,500</u>
2.5.1 Business Process Redesign					6,955				\$ 6,955
2.5.2 Customer Communication (may include project communication, etc.)				903					\$ 903
2.5.3 Program Management									\$ -
2.5.4 Change Management (may include training, etc.)									\$ -
2.5.5 Administration Costs									\$ -
2.5.6 Other AMI Expenses (please specify)									\$ -
<b>Total Other AMI OM&amp;A Costs Related to Minimum Functionality</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 903</u>	<u>\$ 6,955</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 7,858</u>
<b>TOTAL OM&amp;A COSTS RELATED TO MINIMUM FUNCTIONALITY</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 16,937</u>	<u>\$ 24,533</u>	<u>\$ 19,892</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 61,362</u>
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.									\$ -
<b>Total OM&amp;A Costs Beyond Minimum Functionality</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
<b>Total Smart Meter OM&amp;A Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 16,937</u>	<u>\$ 24,533</u>	<u>\$ 19,892</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 61,362</u>



**3 Aggregate Smart Meter Costs by Category**

<b>3.1</b>	<b>Capital</b>											
3.1.1	Smart Meter	\$ -	\$ -	\$ -	\$ 153,779	\$ 37,915	-\$ 7,224	\$ -	\$ -	\$ -	\$ -	\$ 184,469
3.1.2	Computer Hardware	\$ -	\$ -	\$ -	\$ 4,220	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,220
3.1.3	Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.4	Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.5	Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.6	Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.7	<b>Total Capital Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 157,998</u>	<u>\$ 37,915</u>	<u>-\$ 7,224</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 188,689</u>
<b>3.2</b>	<b>OM&amp;A Costs</b>											
3.2.1	<b>Total OM&amp;A Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 16,937</u>	<u>\$ 24,533</u>	<u>\$ 19,892</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 61,362</u>



## Smart Meter Model for Electricity Distributors (2013 Filers)

	2006	2007	2008	2009	2010	2011	2012	2013
<b>Cost of Capital</b>								
<b>Capital Structure<sup>1</sup></b>								
Deemed Short-term Debt Capitalization			4.0%	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%	56.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%	40.0%
Preferred Shares								
<b>Total</b>	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>Cost of Capital Parameters</b>								
Deemed Short-term Debt Rate			4.47%	4.47%	4.47%	4.47%	2.08%	2.08%
Long-term Debt Rate (actual/embedded/deemed) <sup>2</sup>	6.25%	6.25%	5.15%	5.15%	5.15%	5.15%	4.22%	4.22%
Target Return on Equity (ROE)	9.0%	9.00%	8.57%	8.57%	8.57%	8.57%	9.12%	9.12%
Return on Preferred Shares								
<b>WACC</b>	7.63%	7.63%	6.72%	6.60%	6.49%	6.49%	6.09%	6.09%
<b>Working Capital Allowance</b>								
Working Capital Allowance Rate <i>(% of the sum of Cost of Power + controllable expenses)</i>	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
<b>Taxes/PILs</b>								
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	16.50%	16.00%	15.50%	15.50%	15.50%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%	0.00%

**Depreciation Rates**

*(expressed as expected useful life in years)*

Smart Meters - years	15	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years								
- rate (%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Tools & Equipment - years								
- rate (%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other Equipment - years								
- rate (%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

**CCA Rates**

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

**Assumptions**

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



## Smart Meter Model for Electricity Distributors (2013 Filers)

	2006	2007	2008	2009	2010	2011	2012	2013
<b>Net Fixed Assets - Smart Meters</b>								
<b>Gross Book Value</b>								
Opening Balance		\$ -	\$ -	\$ -	\$ 153,779	\$ 191,694	\$ 184,469	\$ 184,469
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 153,779	\$ 37,915	\$ 7,224	\$ -	\$ -
Retirements/Removals (if applicable)								
Closing Balance	\$ -	\$ -	\$ -	\$ 153,779	\$ 191,694	\$ 184,469	\$ 184,469	\$ 184,469
<b>Accumulated Depreciation</b>								
Opening Balance		\$ -	\$ -	\$ -	-\$ 5,126	-\$ 16,642	-\$ 29,180	-\$ 41,478
Amortization expense during year	\$ -	\$ -	\$ -	-\$ 5,126	-\$ 11,516	-\$ 12,539	-\$ 12,298	-\$ 12,298
Retirements/Removals (if applicable)								
Closing Balance	\$ -	\$ -	\$ -	-\$ 5,126	-\$ 16,642	-\$ 29,180	-\$ 41,478	-\$ 53,776
<b>Net Book Value</b>								
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 148,653	\$ 175,052	\$ 155,289	\$ 142,991
Closing Balance	\$ -	\$ -	\$ -	\$ 148,653	\$ 175,052	\$ 155,289	\$ 142,991	\$ 130,693
Average Net Book Value	\$ -	\$ -	\$ -	\$ 74,326	\$ 161,852	\$ 165,170	\$ 149,140	\$ 136,842
<b>Net Fixed Assets - Computer Hardware</b>								
<b>Gross Book Value</b>								
Opening Balance		\$ -	\$ -	\$ -	\$ 4,220	\$ 4,220	\$ 4,220	\$ 4,220
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 4,220	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)								
Closing Balance	\$ -	\$ -	\$ -	\$ 4,220	\$ 4,220	\$ 4,220	\$ 4,220	\$ 4,220
<b>Accumulated Depreciation</b>								
Opening Balance	\$ -	\$ -	\$ -	\$ -	-\$ 422	-\$ 1,266	-\$ 2,110	-\$ 2,954
Amortization expense during year	\$ -	\$ -	\$ -	-\$ 422	-\$ 844	-\$ 844	-\$ 844	-\$ 844
Retirements/Removals (if applicable)								
Closing Balance	\$ -	\$ -	\$ -	-\$ 422	-\$ 1,266	-\$ 2,110	-\$ 2,954	-\$ 3,798
<b>Net Book Value</b>								
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 3,798	\$ 2,954	\$ 2,110	\$ 1,266
Closing Balance	\$ -	\$ -	\$ -	\$ 3,798	\$ 2,954	\$ 2,110	\$ 1,266	\$ 422
Average Net Book Value	\$ -	\$ -	\$ -	\$ 1,899	\$ 3,376	\$ 2,532	\$ 1,688	\$ 844





## Smart Meter Model for Electricity Distributors (2013 Filers)

	2006	2007	2008	2009	2010	2011	2012	2013
<b>Average Net Fixed Asset Values (from Sheet 4)</b>								
Smart Meters	\$ -	\$ -	\$ -	\$ 74,326	\$ 161,852	\$ 165,170	\$ 149,140	\$ 136,842
Computer Hardware	\$ -	\$ -	\$ -	\$ 1,899	\$ 3,376	\$ 2,532	\$ 1,688	\$ 844
Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Net Fixed Assets</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 76,225</b>	<b>\$ 165,228</b>	<b>\$ 167,702</b>	<b>\$ 150,828</b>	<b>\$ 137,686</b>
<b>Working Capital</b>								
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ -	\$ 16,937	\$ 24,533	\$ 19,892	\$ -	\$ -
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ -	\$ 2,541	\$ 3,680	\$ 2,984	\$ -	\$ -
<b>Incremental Smart Meter Rate Base</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 78,766</b>	<b>\$ 168,908</b>	<b>\$ 170,686</b>	<b>\$ 150,828</b>	<b>\$ 137,686</b>
<b>Return on Rate Base</b>								
<b>Capital Structure</b>								
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ 3,151	\$ 6,756	\$ 6,827	\$ 6,033	\$ 5,507
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 41,510	\$ 94,588	\$ 95,584	\$ 84,464	\$ 77,104
Equity	\$ -	\$ -	\$ -	\$ 34,106	\$ 67,563	\$ 68,274	\$ 60,331	\$ 55,074
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Capitalization</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 78,766</b>	<b>\$ 168,908</b>	<b>\$ 170,686</b>	<b>\$ 150,828</b>	<b>\$ 137,686</b>
<b>Return on</b>								
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ 141	\$ 302	\$ 305	\$ 125	\$ 115
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 2,138	\$ 4,871	\$ 4,923	\$ 3,564	\$ 3,254
Equity	\$ -	\$ -	\$ -	\$ 2,923	\$ 5,790	\$ 5,851	\$ 5,502	\$ 5,023
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Return on Capital</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,201</b>	<b>\$ 10,963</b>	<b>\$ 11,079</b>	<b>\$ 9,192</b>	<b>\$ 8,391</b>
<b>Operating Expenses</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 16,937</b>	<b>\$ 24,533</b>	<b>\$ 19,892</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Amortization Expenses (from Sheet 4)</b>								
Smart Meters	\$ -	\$ -	\$ -	\$ 5,126	\$ 11,516	\$ 12,539	\$ 12,298	\$ 12,298
Computer Hardware	\$ -	\$ -	\$ -	\$ 422	\$ 844	\$ 844	\$ 844	\$ 844
Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Amortization Expense in Year</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,548</b>	<b>\$ 12,360</b>	<b>\$ 13,383</b>	<b>\$ 13,142</b>	<b>\$ 13,142</b>
<b>Incremental Revenue Requirement before Taxes/PILs</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 27,686</b>	<b>\$ 47,856</b>	<b>\$ 44,353</b>	<b>\$ 22,334</b>	<b>\$ 21,533</b>
<b>Calculation of Taxable Income</b>								
Incremental Operating Expenses	\$ -	\$ -	\$ -	\$ 16,937	\$ 24,533	\$ 19,892	\$ -	\$ -
Amortization Expense	\$ -	\$ -	\$ -	\$ 5,548	\$ 12,360	\$ 13,383	\$ 13,142	\$ 13,142
Interest Expense	\$ -	\$ -	\$ -	\$ 2,279	\$ 5,173	\$ 5,228	\$ 3,690	\$ 3,368
<b>Net Income for Taxes/PILs</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,923</b>	<b>\$ 5,790</b>	<b>\$ 5,851</b>	<b>\$ 5,502</b>	<b>\$ 5,023</b>
<b>Grossed-up Taxes/PILs (from Sheet 7)</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 572.08</b>	<b>\$ 731.69</b>	<b>\$ 862.02</b>	<b>\$ 1,138.42</b>	<b>\$ 1,262.37</b>
<b>Revenue Requirement, including Grossed-up Taxes/PILs</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 28,258</b>	<b>\$ 48,588</b>	<b>\$ 45,215</b>	<b>\$ 23,472</b>	<b>\$ 22,795</b>



## Smart Meter Model for Electricity Distributors (2013 Filers)

### For PILs Calculation

#### UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 Forecast	2013 Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 147,627.67	\$ 172,215.57	\$ 151,214.26	\$ 139,117.12
Capital Additions	\$ -	\$ -	\$ -	\$ 153,778.82	\$ 37,914.71	\$ 7,224.07	\$ -	\$ -
Retirements/Removals (if applicable)								
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 153,778.82	\$ 185,542.38	\$ 164,991.51	\$ 151,214.26	\$ 139,117.12
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 76,889.41	\$ 18,957.35	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 76,889.41	\$ 166,585.02	\$ 172,215.57	\$ 151,214.26	\$ 139,117.12
CCA Rate Class	47	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 6,151.15	\$ 13,326.80	\$ 13,777.25	\$ 12,097.14	\$ 11,129.37
Closing UCC	\$ -	\$ -	\$ -	\$ 147,627.67	\$ 172,215.57	\$ 151,214.26	\$ 139,117.12	\$ 127,987.75

#### UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 Forecast	2013 Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 3,059.22	\$ 1,376.65	\$ 619.49	\$ 278.77
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 4,219.61	\$ -	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)								
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 4,219.61	\$ 3,059.22	\$ 1,376.65	\$ 619.49	\$ 278.77
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 2,109.81	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 2,109.81	\$ 3,059.22	\$ 1,376.65	\$ 619.49	\$ 278.77
CCA Rate Class	50	50	50	50	50	50	50	50
CCA Rate	55%	55%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ 1,160.39	\$ 1,682.57	\$ 757.16	\$ 340.72	\$ 153.32
Closing UCC	\$ -	\$ -	\$ -	\$ 3,059.22	\$ 1,376.65	\$ 619.49	\$ 278.77	\$ 125.45







## Smart Meter Model for Electricity Distributors (2013 Filers)

### PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 Forecast	2013 Forecast
<b>INCOME TAX</b>								
Net Income	\$ -	\$ -	\$ -	\$ 2,922.85	\$ 5,790.16	\$ 5,851.11	\$ 5,502.20	\$ 5,022.78
Amortization	\$ -	\$ -	\$ -	\$ 5,547.92	\$ 12,359.67	\$ 13,382.69	\$ 13,141.89	\$ 13,141.89
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 6,151.15	\$ 13,326.80	\$ 13,777.25	\$ 12,097.14	\$ 11,129.37
CCA - Computers	\$ -	\$ -	\$ -	\$ 1,160.39	\$ 1,682.57	\$ 757.16	\$ 340.72	\$ 153.32
CCA - Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ -	\$ 1,159.22	\$ 3,140.46	\$ 4,699.40	\$ 6,206.23	\$ 6,881.98
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	16.50%	16.00%	15.50%	15.50%	15.50%
Income Taxes Payable	\$ -	\$ -	\$ -	\$ 191.27	\$ 502.47	\$ 728.41	\$ 961.96	\$ 1,066.71
<b>ONTARIO CAPITAL TAX</b>								
Smart Meters	\$ -	\$ -	\$ -	\$ 148,652.86	\$ 175,051.82	\$ 155,288.99	\$ 142,991.03	\$ 130,693.06
Computer Hardware	\$ -	\$ -	\$ -	\$ 3,797.65	\$ 2,953.73	\$ 2,109.81	\$ 1,265.88	\$ 421.96
Computer Software (Including Application Software)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ -	\$ 152,450.51	\$ 178,005.55	\$ 157,398.80	\$ 144,256.91	\$ 131,115.02
Less: Exemption	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ -	\$ 152,450.51	\$ 178,005.55	\$ 157,398.80	\$ 144,256.91	\$ 131,115.02
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ -	\$ 343.01	\$ 133.50	\$ -	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 191.27	\$ 502.47	\$ 728.41	\$ 961.96	\$ 1,066.71
Change in OCT	\$ -	\$ -	\$ -	\$ 343.01	\$ 133.50	\$ -	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 534.29	\$ 635.98	\$ 728.41	\$ 961.96	\$ 1,066.71
<b>Gross Up PILs</b>								
Tax Rate	36.12%	36.12%	33.50%	16.50%	16.00%	15.50%	15.50%	15.50%
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 229.07	\$ 598.18	\$ 862.02	\$ 1,138.42	\$ 1,262.37
Change in OCT	\$ -	\$ -	\$ -	\$ 343.01	\$ 133.50	\$ -	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 572.08	\$ 731.69	\$ 862.02	\$ 1,138.42	\$ 1,262.37



## Smart Meter Model for Electricity Distributors (2013 Filers)

This worksheet calculates the funding adder revenues.

### Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		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%	3.92%	Dec-07	2007	Q4	\$ -		5.14%	\$ -	\$ -	\$ -	
2012 Q1	1.47%	3.92%	Jan-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q2	1.47%	3.51%	Feb-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		



# Smart Meter Model for Electricity Distributors (2013 Filers)

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)
2012 Q3	1.47%	3.51%	Mar-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q4	1.47%	3.23%	Apr-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
2013 Q1	1.47%	3.23%	May-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
2013 Q2	1.47%	3.23%	Jun-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
2013 Q3			Jul-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
2013 Q4			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	\$ -		0.55%	\$ -	\$ -		
			Dec-09	2009	Q4	\$ -		0.55%	\$ -	\$ -	\$ -	
			Jan-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Feb-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Mar-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Apr-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		
			May-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		



## Smart Meter Model for Electricity Distributors (2013 Filers)

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)
			Jun-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		
			Jul-10	2010	Q3	\$ -		0.89%	\$ -	\$ -		
			Aug-10	2010	Q3	\$ -		0.89%	\$ -	\$ -		
			Sep-10	2010	Q3	\$ -		0.89%	\$ -	\$ -		
			Oct-10	2010	Q4	\$ -		1.20%	\$ -	\$ -		
			Nov-10	2010	Q4	\$ -		1.20%	\$ -	\$ -		
			Dec-10	2010	Q4	\$ -		1.20%	\$ -	\$ -	\$ -	
			Jan-11	2011	Q1	\$ -		1.47%	\$ -	\$ -		
			Feb-11	2011	Q1	\$ -		1.47%	\$ -	\$ -		
			Mar-11	2011	Q1	\$ -		1.47%	\$ -	\$ -		
			Apr-11	2011	Q2	\$ -		1.47%	\$ -	\$ -		
			May-11	2011	Q2	\$ -		1.47%	\$ -	\$ -		
			Jun-11	2011	Q2	\$ -		1.47%	\$ -	\$ -		
			Jul-11	2011	Q3	\$ -		1.47%	\$ -	\$ -		
			Aug-11	2011	Q3	\$ -		1.47%	\$ -	\$ -		
			Sep-11	2011	Q3	\$ -		1.47%	\$ -	\$ -		
			Oct-11	2011	Q4	\$ -		1.47%	\$ -	\$ -		
			Nov-11	2011	Q4	\$ -		1.47%	\$ -	\$ -		
			Dec-11	2011	Q4	\$ -		1.47%	\$ -	\$ -	\$ -	
			Jan-12	2012	Q1	\$ -		1.47%	\$ -	\$ -		
			Feb-12	2012	Q1	\$ -		1.47%	\$ -	\$ -		
			Mar-12	2012	Q1	\$ -		1.47%	\$ -	\$ -		
			Apr-12	2012	Q2	\$ -		1.47%	\$ -	\$ -		
			May-12	2012	Q2	\$ -	\$ 5,922.80	1.47%	\$ -	\$ 5,922.80		
			Jun-12	2012	Q2	\$ 5,922.80	\$ 5,875.23	1.47%	\$ 7.26	\$ 11,805.29		
			Jul-12	2012	Q3	\$ 11,798.03	\$ 5,761.69	1.47%	\$ 14.45	\$ 17,574.17		
			Aug-12	2012	Q3	\$ 17,559.72	\$ 5,631.93	1.47%	\$ 21.51	\$ 23,213.16		



## Smart Meter Model for Electricity Distributors (2013 Filers)

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)
			Sep-12	2012	Q3	\$ 23,191.65		1.47%	\$ 28.41	\$ 23,220.06		
			Oct-12	2012	Q4	\$ 23,191.65		1.47%	\$ 28.41	\$ 23,220.06		
			Nov-12	2012	Q4	\$ 23,191.65		1.47%	\$ 28.41	\$ 23,220.06		
			Dec-12	2012	Q4	\$ 23,191.65		1.47%	\$ 28.41	\$ 23,220.06	\$ 23,348.51	
			Jan-13	2013	Q1	\$ 23,191.65		1.47%	\$ 28.41	\$ 23,220.06		
			Feb-13	2013	Q1	\$ 23,191.65		1.47%	\$ 28.41	\$ 23,220.06		
			Mar-13	2013	Q1	\$ 23,191.65		1.47%	\$ 28.41	\$ 23,220.06		
			Apr-13	2013	Q2	\$ 23,191.65		1.47%	\$ 28.41	\$ 23,220.06		
			May-13	2013	Q2	\$ 23,191.65		1.47%	\$ 28.41	\$ 23,220.06		
			Jun-13	2013	Q2	\$ 23,191.65		1.47%	\$ 28.41	\$ 23,220.06		
			Jul-13	2013	Q3	\$ 23,191.65		0.00%	\$ -	\$ 23,191.65		
			Aug-13	2013	Q3	\$ 23,191.65		0.00%	\$ -	\$ 23,191.65		
			Sep-13	2013	Q3	\$ 23,191.65		0.00%	\$ -	\$ 23,191.65		
			Oct-13	2013	Q4	\$ 23,191.65		0.00%	\$ -	\$ 23,191.65		
			Nov-13	2013	Q4	\$ 23,191.65		0.00%	\$ -	\$ 23,191.65		
			Dec-13	2013	Q4	\$ 23,191.65		0.00%	\$ -	\$ 23,191.65	\$ 170.46	
<b>Total Funding Adder Revenues Collected</b>						<b>\$ 23,191.65</b>	<b>\$ 156.86</b>	<b>\$ 23,348.51</b>	<b>\$ 23,348.51</b>			



## Smart Meter Model for Electricity Distributors (2013 Filers)

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	Amortization / Depreciation Expense	Closing Balance	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
						(Principal)					
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%	3.92%	Dec-07	2007	Q4	-		-	5.14%	-	-
2012 Q1	1.47%	3.92%	Jan-08	2008	Q1	-		-	5.14%	-	-
2012 Q2	1.47%	3.51%	Feb-08	2008	Q1	-		-	5.14%	-	-
2012 Q3	1.47%	3.51%	Mar-08	2008	Q1	-		-	5.14%	-	-
2012 Q4	1.47%	3.23%	Apr-08	2008	Q2	-		-	4.08%	-	-
2013 Q1	1.47%	3.23%	May-08	2008	Q2	-		-	4.08%	-	-
2013 Q2	1.47%	3.23%	Jun-08	2008	Q2	-		-	4.08%	-	-
2013 Q3	0.00%	0.00%	Jul-08	2008	Q3	-		-	3.35%	-	-
2013 Q4	0.00%	0.00%	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	-		-	0.55%	-	-
			Dec-09	2009	Q4	-		-	0.55%	-	-
			Jan-10	2010	Q1	-		-	0.55%	-	-
			Feb-10	2010	Q1	-		-	0.55%	-	-
			Mar-10	2010	Q1	-		-	0.55%	-	-
			Apr-10	2010	Q2	-		-	0.55%	-	-
			May-10	2010	Q2	-		-	0.55%	-	-
			Jun-10	2010	Q2	-		-	0.55%	-	-
			Jul-10	2010	Q3	-		-	0.89%	-	-
			Aug-10	2010	Q3	-		-	0.89%	-	-
			Sep-10	2010	Q3	-		-	0.89%	-	-
			Oct-10	2010	Q4	-		-	1.20%	-	-
			Nov-10	2010	Q4	-		-	1.20%	-	-
			Dec-10	2010	Q4	-		-	1.20%	-	-
			Jan-11	2011	Q1	-		-	1.47%	-	-
			Feb-11	2011	Q1	-		-	1.47%	-	-
			Mar-11	2011	Q1	-		-	1.47%	-	-
			Apr-11	2011	Q2	-		-	1.47%	-	-
			May-11	2011	Q2	-		-	1.47%	-	-
			Jun-11	2011	Q2	-		-	1.47%	-	-
			Jul-11	2011	Q3	-		-	1.47%	-	-
			Aug-11	2011	Q3	-		-	1.47%	-	-
			Sep-11	2011	Q3	-		-	1.47%	-	-
			Oct-11	2011	Q4	-		-	1.47%	-	-
			Nov-11	2011	Q4	-		-	1.47%	-	-
			Dec-11	2011	Q4	-		-	1.47%	-	-
			Jan-12	2012	Q1	-		-	1.47%	-	-
			Feb-12	2012	Q1	-		-	1.47%	-	-
			Mar-12	2012	Q1	-		-	1.47%	-	-
			Apr-12	2012	Q2	-		-	1.47%	-	-
			May-12	2012	Q2	-		-	1.47%	-	-
			Jun-12	2012	Q2	-		-	1.47%	-	-
			Jul-12	2012	Q3	-		-	1.47%	-	-
			Aug-12	2012	Q3	-		-	1.47%	-	-
			Sep-12	2012	Q3	-		-	1.47%	-	-
			Oct-12	2012	Q4	-		-	1.47%	-	-
			Nov-12	2012	Q4	-		-	1.47%	-	-

Dec-12	2012	04	-			-	1.47%	-	-
Jan-13	2013	01	-			-	1.47%	-	-
Feb-13	2013	01	-			-	1.47%	-	-
Mar-13	2013	01	-			-	1.47%	-	-
Apr-13	2013	02	-			-	1.47%	-	-
May-13	2013	02	-			-	1.47%	-	-
Jun-13	2013	02	-			-	1.47%	-	-
Jul-13	2013	03	-			-	0.00%	-	-
Aug-13	2013	03	-			-	0.00%	-	-
Sep-13	2013	03	-			-	0.00%	-	-
Oct-13	2013	04	-			-	0.00%	-	-
Nov-13	2013	04	-			-	0.00%	-	-
Dec-13	2013	04	-			-	0.00%	-	-
			\$	-	\$	-	\$	-	\$





## Smart Meter Model for Electricity Distributors (2013 Filers)

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	\$ -	\$ -	\$ -	\$ -	3.98%	\$ -
2009	\$ 16,936.86	\$ 5,547.92	\$ 22,484.78	\$ 11,242.39	1.14%	\$ 127.88
2010	\$ 24,532.85	\$ 12,359.67	\$ 59,377.29	\$ 40,931.04	0.80%	\$ 326.43
2011	\$ 19,891.81	\$ 13,382.69	\$ 92,651.79	\$ 76,014.54	1.47%	\$ 1,117.41
2012	\$ -	\$ 13,141.89	\$ 105,793.68	\$ 99,222.73	1.47%	\$ 1,458.57
2013	\$ -	\$ 13,141.89	\$ 118,935.56	\$ 112,364.62	0.74%	\$ 825.88
<b>Cumulative Interest to 2011</b>						\$ 1,571.72
<b>Cumulative Interest to 2012</b>						\$ 3,030.30
<b>Cumulative Interest to 2013</b>						\$ 3,856.18





## Smart Meter Model for Electricity Distributors (2013 Filers)

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

**Check if applicable**

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

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

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

	2006	2007	2008	2009	2010	2011	2012	2013	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ -	\$ 28,258.28	\$ 48,587.68	\$ 45,215.40	\$ 23,472.36	\$ 22,795.40	\$ 145,533.72
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ -	\$ 127.88	\$ 326.43	\$ 1,117.41	\$ 1,458.57	\$ 825.88	\$ 3,030.30
<input type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)									
<input checked="" type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)	\$ -	\$ -	\$ -	\$ 127.88	\$ 326.43	\$ 1,117.41	\$ 1,458.57	\$ 825.88	\$ 3,030.30
SMFA Revenues (from Sheet 8)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,191.65	\$ -	\$ 23,191.65
SMFA Interest (from Sheet 8)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 156.86	\$ 170.46	\$ 327.32
Net Deferred Revenue Requirement	\$ -	\$ -	\$ -	\$ 28,386.17	\$ 48,914.10	\$ 46,332.81	\$ 1,582.42	\$ 23,450.82	\$ 125,045.05

Number of Metered Customers (average for 2013 test year) 1673  
 - Number of metered customers for which smart meter were deployed as part of program). Residential and GS < 50 kW customer classes and any other metered classes involved (e.g. GS 50 to 4999 kW for which interval meters were upgraded to utilize AMI and ODS assets)

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

Years for collection or refunding	2.17	
Deferred Incremental Revenue Requirement from 2006 to December 31, 2012 plus Interest on OM&A and Amortization	\$ 148,564.02	
SMFA Revenues collected from 2006 to 2013 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 23,518.97	
Net Deferred Revenue Requirement	\$ 125,045.05	}
SMDR <span style="border: 1px solid black; padding: 2px;">June 30, 2013 to August 31, 2015</span>	\$ 2.87	
<b>Check: Forecasted SMDR Revenues</b>	\$ 125,031.32	<b>Match</b>

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

Incremental Revenue Requirement for 2013	\$ 22,795.40	
SMIRR	\$ 1.14	}
<b>Check: Forecasted SMIRR Revenues</b>	\$ 22,886.64	



## Smart Meter Model for Electricity Distributors (2013 Filers)

This worksheet calculates the class-specific SMDRs according to accepted practice. A distributor may choose to use its own methodology, but should provide for its allocation and derivation of class-specific SMDRs and SMIRRs.

### Class-specific SMDRs

Revenue Requirement for Historical Years	2006	2007	2008	2009	2010	2011
Return on Capital	\$ -	\$ -	\$ -	\$ 5,201.42	\$ 10,963.48	\$ 11,078.88
Depreciation/Amortization expense and related interest	\$ -	\$ -	\$ -	\$ 5,547.92	\$ 12,359.67	\$ 13,382.69
	\$ -	\$ -	\$ -	\$ 31.55	\$ 109.36	\$ 449.41
	\$ -	\$ -	\$ -	\$ 5,579.48	\$ 12,469.03	\$ 13,832.10
Operating Expenses and related interest	\$ -	\$ -	\$ -	\$ 16,936.86	\$ 24,532.85	\$ 19,891.81
	\$ -	\$ -	\$ -	\$ 96.33	\$ 217.07	\$ 668.00



**le analogous support**

2012	Total 2006 to 2012	<b>Explanation / Allocator</b>	Residential	GS < 50 kW	GS 50 to 4999 kW
		Check Row if SMDR/SMIRR apply to class	X	X	X
		Weighted Meter Cost - Capital Allocated per class	79.30%	16.41%	4.29%
\$ 9,192.05	\$ 36,435.84		\$ 28,891.95	\$ 5,980.19	\$ 1,563.70
\$ 13,141.89		Weighted Meter Cost - Capital Allocated per class	79%	16%	4%
\$ 2,284.45			\$ 37,512.24	\$ 7,764.46	\$ 2,030.25
<u>\$ 15,426.34</u>	\$ 47,306.95				
\$ -		Number of Smart Meters installed by Class	#	#	#
<u>\$ -</u>			1,427	224	22



# Smart Meter Model Electricity Distribution (2013 Filer)

This worksheet calculates the class-specific SMIRRs according to accepted practice. A distributor may choose to use its own for its allocation and derivation of class-specific SMDRs and SMIRRs.

Class-specific SMDRs

**Revenue Requirement for 2013**

Return on Capital

Depreciation/Amortization  
expense

Operating Expenses

# Model for Contributors (s)

methodology, but should provide analogous support

2013	Explanation / Allocator	Residential	GS < 50 kW	GS 50 to 4999 kW
	Check Row if SMDR/SMIRR apply to class	X	X	X
		%	%	%
\$ 8,391.13	Weighted Meter Cost - Capital Allocated per class	\$ 6,653.78	\$ 1,377.23	\$ 360.12
\$ 13,141.89	Weighted Meter Cost - Capital Allocated per class	\$ 10,420.91	\$ 2,156.97	\$ 564.00
\$ -	Number of Smart Meters installed by Class	# 1,427	# 224	# 22