



Northern Ontario Wires Inc.
153 Sixth Avenue
P.O. Box 640
Cochrane, ON
P0L 1C0

August 31, 2012

Ms. Kirstin Walli
Board Secretary
Ontario Energy Board
P.O. Box 2319
2300 Yonge Street, 27th Floor
Toronto, ON M4P 1E4

Re: Smart Meter Disposition EB-2012-0353

Dear Ms. Walli:

Northern Ontario Wires Inc. ("NOW") hereby files its application for disposition of smart meters.

This document is being filed pursuant to the Board's e-Filing Services.

Yours Truly,

Geoffrey Sutton

Geoffrey Sutton, CA
Chief Financial Officer
geoffs@nowinc.ca
Tel 705-272-2918



Northern Ontario Wires Inc.

**Smart Meter Disposition
Application
EB-2012-0353**

Rates Effective: January 1, 2013

Date Filed: August 31, 2012

**Northern Ontario Wires Inc.
153 Sixth Avenue
P.O. Box 640
Cochrane, ON
P0L 1C0**



File Number: EB-2012-0353

Date Filed: August 31, 2012

Exhibit 1

ADMINISTRATION



File Number: EB-2012-0353

Date Filed: August 31, 2012

Exhibit 1

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Application



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Legal Application
File Number: EB-2012-0353

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Legal Application

IN THE MATTER OF the Ontario Energy Board Act,
1998, S.O. 1998, c. 15 (Sched. B);

AND IN THE MATTER OF an application by Northern
Ontario Wires Inc. for an Order or Orders approving
rates for smart meter costs recovery to be
implemented January 1, 2013.

APPLICATION

1. Northern Ontario Wires Inc. ("NOW" or "the Applicant") is an electricity distributor as defined in the Ontario Energy Board Act, 1998 (the "Act"). approximately 6,150 customers in the Town of Cochrane, Town of Iroquois Falls and Town of Kapuskasing pursuant to a distribution license (ED-2003-0018) issued by the Ontario Energy Board (the "Board") and charges Board-authorized rates (EB-2011-0188) for the distribution service it provides.
2. The Applicant hereby applies to the Ontario Energy Board (the "OEB" or "the Board") pursuant to section 78 of the Ontario Energy Board Act, 1998, (the "OEB Act") for approval of Smart Meter rate riders to effect the recovery of its Smart Meter costs effective January 1, 2013.



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3. NOW hereby applies for an order or orders in accordance with G-2011-0001
Guideline, Smart Meter Funding and Cost Recovery – Final Disposition,
December 15, 2011.

4. This Application is supported by written evidence that may be amended from
time to time, prior to the Board's final decision on this Application.

5. The Applicant requests that, pursuant to Section 34.01 of the Board's Rules of
Practice and Procedure, this proceeding be conducted by way of written hearing.

6. NOW has used the applicable Board-issued Excel models, such models having
been subject to subsequent corrections and updates. The applicable model is:

- 2013 Smart Meter Model v3

7. The cost recovery is based on actual audited costs incurred until December 31,
2011 and forecasted costs to December 31, 2012.

DATED at Cochrane, Ontario, this 31th day of August, 2012.

All of which is respectfully submitted.

NORTHERN ONTARIO WIRES INC.

Geoffrey Sutton

Chief Financial Officer



Statement of Publication
File Number: EB-2012-0353

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Statement of Publication

NOW Inc. plans to publish the notice of application in the three local papers for each community as follows:

- Cochrane – Cochrane Times Post
- Iroquois Falls – The Enterprise
- Kapuskasing - Le Weekender



Application Contact
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Application Contact

Primary Contact is as follows:

Geoffrey Sutton
Chief Financial Officer
geoffs@nowinc.ca
(705) 272-2918



Manager's Summary
File Number: EB-2012-0353

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Manager's Summary

Introduction:

This application is being filed by Northern Ontario Wires Inc. (NOW) for smart meter cost recovery for the implementation of smart meters in the LDC's service area. The cost recovery is based on actual audited costs incurred to December 31, 2011 with interest costs, web presentment and other costs forecasted to December 31, 2012.

NOW is specifically requesting the following:

1. Smart Meter Disposition Rate Rider (per metered customer per month) of \$6.47 for sixteen months (January 1, 2013 to April 30, 2014) for Residential Customers and a Smart Meter Disposition Rate Rider (per metered customer per month) of \$13.85 for sixteen months (January 1, 2013 to April 30, 2014) for General Service < 50 kW customers.
2. NOW is not requesting recovery of the Smart Meter Incremental Revenue Requirement Rate Rider as NOW's next cost of service re-basing approval (currently expected May 1, 2013) will include recoveries of the Smart Meter Incremental Revenue Requirement in this rate application.
3. NOW is not requesting recovery of the stranded meter costs. Stranded meter costs have been transferred to a sub-account of 1555 without carrying charges being applied going forward. The majority (90%) of stranded meter costs were transferred in and depreciation expense no longer booked on the majority effective 2010. Stranded meters are in sub-account 1555 and will



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- 1 remain there and be dealt with in our next cost of service application
2 (currently expected May 1, 2013).

3 ***Bill Impacts***

- 4 NOW has determined the following bill impact for this application:

Summary of Bill Impacts

	Delivery		Total Bill	
	\$	%	\$	%
Residential (800 kWh)	\$6.47	19.04%	\$6.58	5.87%
5 General Service Less than 50 kW (2,000 kWh)	\$13.85	22.46%	\$14.09	5.50%



Overview
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Overview

NOW Inc. has installed 5,819 smart meters as of December 31, 2011 and 5,898 smart meters as of July 2012. Breakdown is as follows:

Category	As of Dec 31, 2011	As of July 31, 2012	Forecast Installs Aug – Dec 2012	Forecast Total Install as of Dec 2012	Total Eligible Services
Residential	5,227	5,233	6	5,239	5,239
GS<50	592	665	81	746	746
TOTAL	5,819	5,898	87	5,985	5,985

GS>50	2	4	unknown	unknown	71
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The install of the remaining meters (primarily GS<50) was and continues to be delayed while NOW awaited delivery of meters.

Smart meter infrastructure began being installed in early 2009 with the AMI systems and structures, including advanced metering control computer (AMCC) and advanced metering regional collector (AMRC). The mass deployment of meters occurred from June 2009 to September 2009.

Smart meters for General Service greater than 50 kW accounts are being installed as the conventional meters become problematic and requiring replacement. As a result we are unable to provide forecast numbers for this category.



Smart Meter Funding Adders
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Smart Meter Funding Adders

As set out in the OEB's "Smart Meter Funding and Cost Recovery Guideline (G-2008-002) and as part of its 2006 to 2011 Rate Applications, NOW Inc. requested, and the Board approved, the charge of smart meter funding adders as follows:

Approved Rates Effective	Rate per customer per month
May 1, 2006	\$0.26
May 1, 2007	\$0.26
May 1, 2008	\$0.26
May 1, 2009	\$1.00
May 1, 2010	\$1.00
May 1, 2011	\$2.50



Detailed descriptions of initiatives
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Detailed descriptions of initiatives

Consulting Assistance

In seeking economies of scale for a cost effective deployment of smart meters, NOW Inc. and other utilities that form the District 9 Group (D9), engaged in a collaborative initiative of entering into a professional services agreement with Util-Assist, an Ontario firm specializing in metering solutions and technologies. Util-assist was hired to assist with the development of the smart meter project plan, evaluations, award of contracts, project monitoring, problem solving and reporting. Various group planning and steps were undertake and most importantly, the processing of Requests for Proposal for the Advanced Metering Infrastructure (AMI) solution, the mass installation of smart meters, and a meter-data operational data store (ODS), were issued and evaluated resulting in the selection of successful vendors. Util-assist remained actively involved in the implementation and rollout phases of the AMI system, smart meter mass deployment, ODS contract negotiations and implementation from 2007 to 2010.

Util-assist's services to NOW Inc. were expanded in 2010 to include project management assistance and training services related to internal operations and readiness for MDMR enrolment, integration and testing and transition to Time of Use (TOU).

District 9 Group

District 9 is a group that provides value added services to their Local Distribution Company (LDC) members. D9 strives to reduce LDC costs through sharing of knowledge and information as well as providing savings through joint purchasing of goods and services with its members. The seven LDCs which form D9 represent a customer base of approximately 80,000 customers.



The existing members in D9 include the following LDC's:

- Algoma Power Inc.
- Chapleau Public Utilities Corporation
- Espanola Regional Hydro Distribution Corp.
- Hearst Power Distribution Co. Ltd.
- North Bay Hydro Distribution Ltd.
- Northern Ontario Wires Inc.
- PUC Distribution Inc.

AMI Selection Process – Procurement of Smart Meters and Installation Services

NOW Inc. was a participant in the London Phase Two AMI RFP process. NOW Inc. was awarded Sensus' Flexnet AMI system as the preferred vendor by the Fairness Commissioner.

Residential and Commercial Deployment of Sensus Smart Meters

NOW Inc. evaluated the forecast effort required and costs associated with the mass deployment and concluded that the most cost effective approach to converting the conventional residential meters and some of the General Service (GS) less than 50 kW meters to smart meters was to utilize a third-party contractor. Olameter received the contract to perform the mass installation of meters as a result of the D9 RFP process, and the installations by the third party contractor occurred from June 2009 to September 2009. NOW Inc. had identified a number of residential and GS less than 50kW meters that provided for a more complex installation and decided to perform the install with NOW Inc. staff. These installs occurred from October 2009 to date and have had delays as a result of specific meter availability from suppliers and developers.

Annual Security Audit

With the mass deployment of AMI systems, security of the AMI network is critical to prevent utilities from becoming susceptible to new levels of potential security breaches and to ensure customer privacy and acceptance of the network. By installing network infrastructure in the



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1 field, there is now a requirement for additional security measures in order to ensure that utility
2 data and equipment are kept secure from manipulation or other forms of control. As networks
3 are deployed throughout North America, cyber security articles with reports of the potential for
4 smart-grid hacking are becoming commonplace in the media. The minimum Functionality
5 Specifications for Advanced Metering Infrastructure (AMI) released in July 2007 identified the
6 need for security within the AMI network – Section 2.11 Security and Authentication: “The AMI
7 shall have security features to prevent unauthorized access to the AMI and meter data and to
8 ensure authentication to all AMI elements”. Some of the privacy and network security
9 infrastructure concerns that have been raised include:

- 10 - Monitoring a consumer’s usage
- 11 - Modifying one’s own, or another consumer’s usage
- 12 - Interrupting the power of one or more consumers
- 13 - Tampering with demand side management tools which can be controlled
- 14 through smart meters

15 For many Ontario LDC’s, including NOW Inc., completing a security audit at a NERC, NIST or
16 comparable level would be a cost-prohibitive exercise. Therefore, NOW Inc. joined a
17 consortium of Ontario Local Distribution Companies in the issuance of the May 2010 “Smart
18 Meter Network Security Audit Services” Request for Proposal. The request for proposals were
19 evaluated by a sub-committee made up of LDC representatives and the successful vendor was
20 Bell-Wurldtech. The firm completed an in-depth security review on the Sensus AMI at a
21 designated lead utility which was representative of the AMI at participating LDCs. Once the
22 review was complete, the firm then reviewed the technology at all remaining participating utilities
23 to confirm that their Sensus AMI systems were configured to the same standard. The audit
24 included an end-to-end assessment from the meter to the AMI head end system (AMCC).

25
26 The audit was contracted as a two year term with 32 participating LDCs leveraging cost savings
27 by sharing the costs and results of the audit amongst LDCs. The project is now entering year
28 two, with the scope of work in development between a sub-committee representing the
29 participating LDCs and the vendor. The AMI vendor (Sensus) has been engaged in the process



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1 to ensure that they have an understanding of the vulnerabilities identified and they have
2 provided a remediation plan to the LDC community to mitigate issues as required.

3
4 Going forward, NOW has budgeted for an annual security, as this is a prudent approach to
5 satisfying the due diligence requirements.

6
7
8
9 **Program Management, Business Process Re-design and Integration with MDM/R**

10 NOW Inc., along with the rest of the District 9 group, continued to receive consulting support
11 from Utilassist throughout 2010, receiving a series of education sessions covering the MDM/R
12 design specifications, meter read data, VEE and other billing processes, and the design of a
13 testing/cutover strategy and integration with the IESO's MDM/R process and systems.

14
15 **Meter Data Management System or Operational Data Store (ODS)**

16 As NOW Inc. moved into the implementation of its AMI systems with the assistance of Util-
17 Assist, a need was recognized for an application that supported full integration with the MDM/R
18 and enable our staff to review, verify and utilize the vast amount of meter data that was being
19 collected. Accordingly NOW Inc. reviewed the solutions available in the industry and
20 determined that our new CIS system providers – HARRIS offered a solution that provided the
21 best fit for our utility in terms of pricing, support and seamless integration. We entered into an
22 agreement with HARRIS for their ODS – MeterSense. It is web-based and hosted by Harris.
23 The Harris MeterSense product is a complete meter data management solution that stores,
24 validates, and manages smart meter interval and operational data as well as providing reporting
25 capabilities and integration to the CIS system. The deployment of the ODS took place over
26 several months coming and began being utilized in the fall of 2009. Prior to time of use billing it
27 was used to transfer reads to the CIS for billing and since TOU implementation it is a fully
28 functioning and utilized product.



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CIS System

As part of the 2009 Cost of Service Proceeding, NOW Inc. received approval for the change to a new CIS system. In March 2009 NOW Inc. transitioned from the legacy CIS Infinity (Advanced Utility Systems) to the Northstar system (Harris)

Transition to TOU Pricing

In the fall of 2010 NOW Inc. began preparing and testing for the transition to TOU pricing. NOW Inc. went live with the MDMR in February 2011 and moved all its customers with smart meters to TOU pricing in June 2011.

When NOW Inc. commenced testing for MDM/R integration the fall 2011, it recognized a shortage of personnel resources to handle the additional billing and administrative requirements of the relationship with the MDM/R and time of use billing both during the testing and transition period (October 2010 to July 2011) and thereafter. NOW Inc. hired an additional billing clerk to assist in the extra work effective Jan 1, 2011 to July 2011. Following the transition to TOU billing in June 2011, NOW Inc. assessed its resources in consideration of the process and administration changes from the implementation of smart meters and TOU billing and determined that additional staff was required on an on-going basis to meet the workload. Accordingly NOW added 0.4 Full Time Equivalent Employee to its employee base. Therefore 2011 OM&A Costs includes \$27,081 in incremental staff costs for this initiative. The 2012 and 2013 Forecasts include the same incremental staff requirement of 0.4 FTE and costs of \$21,870 and \$25,357 respectively.

Web Presentment

The Ministry of Energy and Infrastructure has indicated that customers should ideally have web access to their consumption data with which to make informed decisions about future usage as part of a utility's rollout of TOU pricing. In 2011 NOW Inc. performed some preliminary investigation into the web presentment solutions available and plans to implement a solution in



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late 2012 or early 2013. NOW Inc. has included the cost of a web presentment solution its smart meter OM&A forecasts for 2013.

Costs beyond minimum functionality

NOW Inc. has incurred costs that are considered to be costs beyond minimum functionality. Cost related to MDM/R Integration and transition to Time of Use Billing have been categorized as "Cost beyond minimum functionality" These costs include project management, travel and training, customer education, AS2 software and sync operator costs. Web presentment costs have also been categorized as "Cost beyond minimum functionality".

IESO MDM/R FEES

NOW Inc. has not included any costs related to the IESO MDM/R fees in this application since the OEB has a generic proceeding to address the recovery of these fees.



Program Costs
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Program Costs

OEB Guideline "G-2011-0001 Smart Meter Funding and Cost Recovery – Final Disposition" states *"The Board expects that the majority (i.e. 90% or more) of the total program costs for which the distributor is seeking recovery will be audited. This threshold should be assessed against total program costs."*

NOW meets this requirements as evidenced in the following table:

	Audited Cost Balances as of December 31, 2011	Forecast Costs 2012	Total Program Costs
Capital \$	\$1,368,608	\$31,000	\$1,399,608
Capital %	98%	2%	
OM&A \$	\$382,894	\$122,289	\$505,183
OM&A %	76%	24%	
Total \$	\$1,751,502	\$153,289	\$1,904,791
Total %	92%	8%	

The 2009, 2010 and 2011 actual costs above are taken from NOW Inc.'s financial records as at December 31, 2011 and agree to the Audited Financial Statement as of December 31, 2011. The Board Guideline G-2009-0002 Smart Meter Funding and Cost Recovery, states "when applying for recovery of smart meter costs, a distributor should ensure that all cost information has been audited, including the smart meter related deferral account balances".

Background – NOW Inc.'s 2011 IRM Application - Interrogatory from OEB regarding Average Cost per Meter

As part of NOW Inc.'s 2011 IRM Application process, the OEB submitted the following question with regards to the average cost per meter. We have included this information here to facilitate any similar concerns that may arise in this proceeding.



Program Costs
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1
2 OEB INTERROGATORY issued Dec 17, 2010 – “Please explain why Northern Ontario Wires
3 Inc.’s total smart meter capital costs per unit appear to be high compared to that of other
4 Ontario electricity distributors. For example, during the combined smart meter proceeding in
5 mid-2007 (EB-2007-0063), the unit costs per installed meter (capital and OM&A) were as
6 follows for urban named distributors:

7 **Table 1: Cost per Installed Smart Meter Urban Distributors**

Distributor	Capital and Operating Cost per Installed Smart Meter
Toronto Hydro-Electric System Limited	\$126.34
Hydro One Brampton Networks Inc.	\$148.04
Hydro Ottawa	\$135.58
Enersource Hydro Mississauga	\$144.20
Milton Hydro	\$126.83
Newmarket Hydro	\$123.59

8
9 NOW RESPONSE

10 Northern Ontario Wires Inc. is a small utility with a customer base of approximately 6,200 customers.
11 We service 3 communities with a distance of 60 km between Cochrane and Iroquois Falls and 110 km
12 between Cochrane and Kapuskasing. Accordingly we required a collector in each community, with each
13 costing approximately \$161,708. The incremental costs of having three collectors versus one is \$323,416
14 or \$53.11 per meter.

15
16
17 Our service area is significantly different that those listed in the Table 1 Comparison provided in
18 the Interrogatories document, both in the number of customers to which we provide service
19 and the density, accordingly we feel it is inappropriate to compare NOW Inc. to utilities such a
20 Toronto Hydro, Hydro Ottawa, etc. We do not have the same customer base on which to
21 allocate our costs. We provide to you the following comparison of our Smart Meter Capital
22 Costs per meter to other small utilities as reported in their Smart Meter Rate Adder Models:



Program Costs
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1

Distributor	Installed Meters	Per meter Cost (Capital and Operating)
Northern Ontario Wires Inc.	6,090	\$260
Lakefront Utilities Inc.	9,603	\$224
Lakeland Power Dist. Ltd.	9,412	\$292
Wellington North Power Inc.	3,575	\$353
Chapleau PUC	1,275	\$373

2

3



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Summary of Bill Impacts

	Delivery		Total Bill	
	\$	%	\$	%
Residential (800 kWh)	\$6.47	19.04%	\$6.58	5.87%
General Service Less than 50 kW (2,000 kWh)	\$13.85	22.46%	\$14.09	5.50%

Bill Impacts

Customer Class: Residential

Consumption 800 kWh ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after 10/1/2017)

		Current Board-Approved			Proposed			Impact	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 17.8300	1	\$ 17.83	\$ 17.8300	1	\$ 17.83	\$ -	0.00%
Smart Meter Rate Adder			1	\$ -	\$ -	1	\$ -	\$ -	
Smart Meter Disposition Rider	Monthly		1	\$ -	\$ 6.4700	1	\$ 6.47	\$ 6.47	
SMIRR	Monthly		1	\$ -		1	\$ -	\$ -	
			1	\$ -	\$ -	1	\$ -	\$ -	
			1	\$ -	\$ -	1	\$ -	\$ -	
			1	\$ -	\$ -	1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0135	800	\$ 10.80	\$ 0.0135	800	\$ 10.80	\$ -	0.00%
Smart Meter Disposition Rider			800	\$ -		800	\$ -	\$ -	
LRAM & SSM Rate Rider	per kWh	\$ 0.0006	800	\$ 0.48	\$ 0.0006	800	\$ 0.48	\$ -	0.00%
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
Sub-Total A				\$ 29.11			\$ 35.58	\$ 6.47	22.23%
Deferral/Variance Account Disposition Rate Rider (2009)	per kWh	-\$ 0.0012	800	-\$ 0.96	-\$ 0.0012	800	-\$ 0.96	\$ -	0.00%
Deferral/Variance Account Disposition Rate Rider (2012)	per kWh	-\$ 0.0029	800	-\$ 2.32	-\$ 0.0029	800	-\$ 2.32	\$ -	0.00%
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
			800	\$ -	\$ -	800	\$ -	\$ -	
Low Voltage Service Charge	per kWh	\$ 0.0011	800	\$ 0.88	\$ 0.0011	800	\$ 0.88	\$ -	0.00%
Smart Meter Entity Charge						800	\$ -	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)				\$ 26.71			\$ 33.18	\$ 6.47	24.22%
RTSR - Network	per kWh	\$ 0.0063	808	\$ 5.09	\$ 0.0063	808	\$ 5.09	\$ -	0.00%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0027	808	\$ 2.18	\$ 0.0027	808	\$ 2.18	\$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)				\$ 33.99			\$ 40.46	\$ 6.47	19.04%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	808	\$ 4.20	\$ 0.0052	808	\$ 4.20	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0011	808	\$ 0.89	\$ 0.0011	808	\$ 0.89	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	808	\$ 5.66	\$ 0.0070	808	\$ 5.66	\$ -	0.00%
Energy - RPP - Tier 1		\$ 0.0750	600	\$ 45.00	\$ 0.0750	600	\$ 45.00	\$ -	0.00%
Energy - RPP - Tier 2		\$ 0.0880	208	\$ 18.34	\$ 0.0880	208	\$ 18.34	\$ -	0.00%
TOU - Off Peak		\$ 0.0650	517	\$ 33.63	\$ 0.0650	517	\$ 33.63	\$ -	0.00%
TOU - Mid Peak		\$ 0.1000	146	\$ 14.55	\$ 0.1000	146	\$ 14.55	\$ -	0.00%
TOU - On Peak		\$ 0.1170	146	\$ 17.03	\$ 0.1170	146	\$ 17.03	\$ -	0.00%
Total Bill on RPP (before Taxes)				\$ 108.33			\$ 114.80	\$ 6.47	5.97%
HST		13%		\$ 14.08	13%		\$ 14.92	\$ 0.84	5.97%
Total Bill (including HST)				\$ 122.42			\$ 129.73	\$ 7.31	5.97%
Ontario Clean Energy Benefit ¹				-\$ 12.24			-\$ 12.97	-\$ 0.73	5.96%
Total Bill on RPP (including OCEB)				\$ 110.18			\$ 116.76	\$ 6.58	5.97%
Total Bill on TOU (before Taxes)				\$ 110.20			\$ 116.67	\$ 6.47	5.87%
HST		13%		\$ 14.33	13%		\$ 15.17	\$ 0.84	5.87%
Total Bill (including HST)				\$ 124.53			\$ 131.84	\$ 7.31	5.87%
Ontario Clean Energy Benefit ¹				-\$ 12.45			-\$ 13.18	-\$ 0.73	5.86%
Total Bill on TOU (including OCEB)				\$ 112.08			\$ 118.66	\$ 6.58	5.87%

Loss Factor (%)	1.06%	1.06%
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Bill Impacts

Customer Class: General Service Less Than 50 kW

Consumption 2000 kWh ☒ May 1 - October 31 ☐ November 1 - April 30 (Select this radio button for applications filed after 10/1/2019)

		Current Board-Approved			Proposed			Impact	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
Monthly Service Charge	Monthly	\$ 23.9000	1	\$ 23.90	\$ 23.9000	1	\$ 23.90	\$ -	0.00%
Smart Meter Rate Adder			1	\$ -		1	\$ -	\$ -	
Smart Meter Disposition Rider	Monthly		1	\$ -	\$ 13.8500	1	\$ 13.85	\$ 13.85	
SMIRR	Monthly		1	\$ -		1	\$ -	\$ -	
			1	\$ -		1	\$ -	\$ -	
			1	\$ -		1	\$ -	\$ -	
			1	\$ -		1	\$ -	\$ -	
Distribution Volumetric Rate	per kWh	\$ 0.0134	2000	\$ 26.80	\$ 0.0134	2000	\$ 26.80	\$ -	0.00%
Smart Meter Disposition Rider			2000	\$ -		2000	\$ -	\$ -	
LRAM & SSM Rate Rider	per kWh	\$ 0.0002	2000	\$ 0.40	\$ 0.0002	2000	\$ 0.40	\$ -	0.00%
			2000	\$ -		2000	\$ -	\$ -	
			2000	\$ -		2000	\$ -	\$ -	
			2000	\$ -		2000	\$ -	\$ -	
			2000	\$ -		2000	\$ -	\$ -	
			2000	\$ -		2000	\$ -	\$ -	
			2000	\$ -		2000	\$ -	\$ -	
			2000	\$ -		2000	\$ -	\$ -	
Sub-Total A				\$ 51.10			\$ 64.95	\$ 13.85	27.10%
Deferral/Variance Account Disposition Rate Rider (2009)	per kWh	-\$ 0.0013	2000	-\$ 2.60	-\$ 0.0013	2000	-\$ 2.60	\$ -	0.00%
Deferral/Variance Account Disposition Rate Rider (2012)	per kWh	-\$ 0.0032	2000	-\$ 6.40	-\$ 0.0032	2000	-\$ 6.40	\$ -	0.00%
			2000	\$ -		2000	\$ -	\$ -	
			2000	\$ -		2000	\$ -	\$ -	
			2000	\$ -		2000	\$ -	\$ -	
Low Voltage Service Charge	per kWh	\$ 0.0013	2000	\$ 2.60	\$ 0.0013	2000	\$ 2.60	\$ -	0.00%
Smart Meter Entity Charge						2000	\$ -	\$ -	
Sub-Total B - Distribution (includes Sub-Total A)				\$ 44.70			\$ 58.55	\$ 13.85	30.98%
RTSR - Network	per kWh	\$ 0.0059	2021	\$ 11.92	\$ 0.0059	2021	\$ 11.92	\$ -	0.00%
RTSR - Line and Transformation Connection	per kWh	\$ 0.0025	2021	\$ 5.05	\$ 0.0025	2021	\$ 5.05	\$ -	0.00%
Sub-Total C - Delivery (including Sub-Total B)				\$ 61.68			\$ 75.53	\$ 13.85	22.46%
Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	2021	\$ 10.51	\$ 0.0052	2021	\$ 10.51	\$ -	0.00%
Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0011	2021	\$ 2.22	\$ 0.0011	2021	\$ 2.22	\$ -	0.00%
Standard Supply Service Charge	Monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	2021	\$ 14.15	\$ 0.0070	2021	\$ 14.15	\$ -	0.00%
Energy - RPP - Tier 1		\$ 0.0750	600	\$ 45.00	\$ 0.0750	600	\$ 45.00	\$ -	0.00%
Energy - RPP - Tier 2		\$ 0.0880	1421	\$ 125.06	\$ 0.0880	1421	\$ 125.06	\$ -	0.00%
TOU - Off Peak		\$ 0.0650	1294	\$ 84.08	\$ 0.0650	1294	\$ 84.08	\$ -	0.00%
TOU - Mid Peak		\$ 0.1000	364	\$ 36.38	\$ 0.1000	364	\$ 36.38	\$ -	0.00%
TOU - On Peak		\$ 0.1170	364	\$ 42.57	\$ 0.1170	364	\$ 42.57	\$ -	0.00%
Total Bill on RPP (before Taxes)				\$ 258.87			\$ 272.72	\$ 13.85	5.35%
HST		13%		\$ 33.65		13%	\$ 35.45	\$ 1.80	5.35%
Total Bill (including HST)				\$ 292.52			\$ 308.17	\$ 15.65	5.35%
Ontario Clean Energy Benefit ¹				-\$ 29.25			-\$ 30.82	-\$ 1.57	5.37%
Total Bill on RPP (including OCEB)				\$ 263.27			\$ 277.35	\$ 14.08	5.35%
Total Bill on TOU (before Taxes)				\$ 251.84			\$ 265.69	\$ 13.85	5.50%
HST		13%		\$ 32.74		13%	\$ 34.54	\$ 1.80	5.50%
Total Bill (including HST)				\$ 284.57			\$ 300.22	\$ 15.65	5.50%
Ontario Clean Energy Benefit ¹				-\$ 28.46			-\$ 30.02	-\$ 1.56	5.48%
Total Bill on TOU (including OCEB)				\$ 256.11			\$ 270.20	\$ 14.09	5.50%

Loss Factor (%)	1.06%	1.06%
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Conclusion
File Number: EB-2012-0353

Exhibit: 1
Tab: 1
Schedule: 11
Page: 1 of 1

Date Filed: August 31, 2012

Conclusion

NOW Inc. respectfully submits that the costs necessary to fulfill its obligations under the provincially mandated Smart Meter Initiative have been prudently incurred in accordance with Board Guidelines; the proposed riders and the associated customer bill impacts are just and reasonable; and it is appropriate that the Board approve the proposed recovery riders for implementation effective January 1, 2013.



File Number: EB-2012-0353

Date Filed: August 31, 2012

Exhibit 1

Tab 2 of 2

Appendices



File Number: EB-2012-0353

Exhibit: 1

Tab: 2

Schedule: 1

Date Filed: August 31, 2012

Appendix 1 of 1

OEB Smart Meter Model v3



Smart Meter Model for Electricity Distributors (2013 Filers)

Version 3.00

Utility Name	Northern Ontario Wires Inc.
Assigned EB Number	EB-2012-0153
Name and Title	Geoffrey Sutton, Chief Financial Officer
Phone Number	(705)272-6669
Email Address	geoffs@nowinc.ca
Date	August 16, 2012
Last COS Re-based Year	2009

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.



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		2006	2007	2008	2009	2010	2011	2012	2013	Total
		Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
Smart Meter Installation Plan										
Actual/Planned number of Smart Meters installed during the Calendar Year										
Residential					5,150	7	51	31		5239
General Service < 50 kW					262	253	32	203		750
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)		0	0	0	5412	260	83	234	0	5989
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed		0.00%	0.00%	0.00%	90.37%	94.71%	96.09%	100.00%	0.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed							4	2		6
Other (please identify)										0
Total Number of Smart Meters installed or planned to be installed		0	0	0	5412	260	87	236	0	5995
1 Capital Costs										
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)		Asset Type Asset type must be selected to enable calculations								
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter		Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
						473,588	35,500	82,835	14,000	
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter					97,992	70,531	37,446	17,000	
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)	Computer Hardware					8,615				\$ 8,615
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)	Computer Software					14,560				\$ 14,560
Total Advanced Metering Communications Devices (AMCD)			\$ -	\$ -	\$ -	\$ 594,755	\$ 106,031	\$ 120,281	\$ 31,000	\$ 852,067
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)										
		Asset Type								
1.2.1 Collectors	Smart Meter		Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
						485,125				
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)			\$ -	\$ -	\$ -	\$ 485,125	\$ -	\$ -	\$ -	\$ 485,125

1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)		Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast		
1.3.1	Computer Hardware										\$	-
1.3.2	Computer Software										\$	-
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>										\$	-
Total Advanced Metering Control Computer (AMCC)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
1.4 WIDE AREA NETWORK (WAN)		Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast		
1.4.1	Activation Fees										\$	-
Total Wide Area Network (WAN)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY		Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast		
1.5.1	Customer Equipment <i>(including repair of damaged equipment)</i>										\$	-
1.5.2	AMI Interface to CIS	Computer Software				8,273					\$	8,273
1.5.3	Professional Fees	Computer Hardware		13,309	15,850	15,698					\$	44,857
1.5.4	Integration										\$	-
1.5.5	Program Management										\$	-
1.5.6	Other AMI Capital	Other Equipment				1,501					\$	1,501
Total Other AMI Capital Costs Related to Minimum Functionality			\$ -	\$ 13,309	\$ 15,850	\$ 25,472	\$ -	\$ -	\$ -	\$ -	\$	54,631
Total Capital Costs Related to Minimum Functionality			\$ -	\$ 13,309	\$ 15,850	\$ 1,105,352	\$ 106,031	\$ 120,281	\$ 31,000	\$ -	\$	1,391,823
1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY		Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast		
<i>(Please provide a descriptive title and identify nature of beyond minimum functionality costs)</i>												
1.6.1	Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06										\$	-
1.6.2	Costs for deployment of smart meters to customers other than residential and small general service										\$	-
1.6.3	Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc.	Computer Software					5,533	2,252			\$	7,785
Total Capital Costs Beyond Minimum Functionality			\$ -	\$ -	\$ -	\$ -	\$ 5,533	\$ 2,252	\$ -	\$ -	\$	7,785
Total Smart Meter Capital Costs			\$ -	\$ 13,309	\$ 15,850	\$ 1,105,352	\$ 111,564	\$ 122,533	\$ 31,000	\$ -	\$	1,399,608

2 OM&A Expenses

2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
2.1.1 Maintenance <i>(may include meter reverification costs, etc.)</i>				6,661					\$ 6,661
2.1.2 Other <i>(please specify)</i>									\$ -
Total Incremental AMCD OM&A Costs	\$ -	\$ -	\$ -	\$ 6,661	\$ -	\$ -	\$ -	\$ -	\$ 6,661
2.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)									
2.2.1 Maintenance				4,541	3,666	4,270			\$ 12,477
2.2.2 Other <i>(please specify)</i>									\$ -
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ 4,541	\$ 3,666	\$ 4,270	\$ -	\$ -	\$ 12,477
2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)									
2.3.1 Hardware Maintenance <i>(may include server support, etc.)</i>				55,377	79,851	100,859	86,236		\$ 322,323
2.3.2 Software Maintenance <i>(may include maintenance support, etc.)</i>					9,117	9,951	9,504		\$ 28,572
2.3.2 Other <i>(please specify)</i>									\$ -
Total Incremental AMCC OM&A Costs	\$ -	\$ -	\$ -	\$ 55,377	\$ 88,968	\$ 110,810	\$ 95,740	\$ -	\$ 350,895
2.4 WIDE AREA NETWORK (WAN)									
2.4.1 WAN Maintenance									\$ -
2.4.2 Other <i>(please specify)</i>									\$ -
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 <i>(may include project communication, etc.)</i>				13,614	90				\$ 13,704
2.5.3 Program Management					22,751				\$ 22,751
2.5.4 Change Management <i>(may include training, etc.)</i>				2,461					\$ 2,461
2.5.5 Administration Costs									\$ -
2.5.6 Other AMI Expenses <i>(please specify)</i>				686		4,122	4,000		\$ 8,808
Total Other AMI OM&A Costs Related to Minimum Functionality	\$ -	\$ -	\$ -	\$ 16,761	\$ 22,841	\$ 4,122	\$ 4,000	\$ -	\$ 47,724
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY	\$ -	\$ -	\$ -	\$ 83,340	\$ 115,475	\$ 119,202	\$ 99,740	\$ -	\$ 417,757
2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY <i>(Please provide a descriptive title and identify nature of beyond minimum functionality costs)</i>	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual			
2.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06									\$ -
2.6.2 Costs for deployment of smart meters to customers other than residential and small general service									\$ -
2.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc.				11,577	7,080	46,220	22,549		\$ 87,426
Total OM&A Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ 11,577	\$ 7,080	\$ 46,220	\$ 22,549	\$ -	\$ 87,426
Total Smart Meter OM&A Costs	\$ -	\$ -	\$ -	\$ 94,917	\$ 122,555	\$ 165,422	\$ 122,289	\$ -	\$ 505,183

3 Aggregate Smart Meter Costs by Category

3.1	Capital																			
3.1.1	Smart Meter	\$	-	\$	-	\$	-	\$	1,056,705	\$	106,031	\$	120,281	\$	31,000	\$	-	\$	1,314,017	
3.1.2	Computer Hardware	\$	-	\$	13,309	\$	15,850	\$	24,313	\$	-	\$	-	\$	-	\$	-	\$	53,472	
3.1.3	Computer Software	\$	-	\$	-	\$	-	\$	22,833	\$	5,533	\$	2,252	\$	-	\$	-	\$	30,618	
3.1.4	Tools & Equipment	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
3.1.5	Other Equipment	\$	-	\$	-	\$	-	\$	1,501	\$	-	\$	-	\$	-	\$	-	\$	1,501	
3.1.6	Applications Software	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
3.1.7	Total Capital Costs	<u>\$</u>	<u>-</u>	<u>\$</u>	<u>13,309</u>	<u>\$</u>	<u>15,850</u>	<u>\$</u>	<u>1,105,352</u>	<u>\$</u>	<u>111,564</u>	<u>\$</u>	<u>122,533</u>	<u>\$</u>	<u>31,000</u>	<u>\$</u>	<u>-</u>	<u>\$</u>	<u>1,399,608</u>	
3.2	OM&A Costs																			
3.2.1	Total OM&A Costs	<u>\$</u>	<u>-</u>	<u>\$</u>	<u>-</u>	<u>\$</u>	<u>-</u>	<u>\$</u>	<u>94,917</u>	<u>\$</u>	<u>122,555</u>	<u>\$</u>	<u>165,422</u>	<u>\$</u>	<u>122,289</u>	<u>\$</u>	<u>-</u>	<u>\$</u>	<u>505,183</u>	



Smart Meter Model for Electricity Distributors (2013 Filers)

	2006	2007	2008	2009	2010	2011	2012	2013
Cost of Capital								
Capital Structure¹								
Deemed Short-term Debt Capitalization			0.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Deemed Long-term Debt Capitalization	50.0%	50.0%	53.3%	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								
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters								
Deemed Short-term Debt Rate				1.33%	1.33%	1.33%	1.33%	1.33%
Long-term Debt Rate (actual/embedded/deemed) ²	4.73%	4.73%	4.73%	5.04%	5.04%	5.04%	5.04%	5.04%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	8.01%	8.01%	8.01%	8.01%	8.01%
Return on Preferred Shares								
WACC	6.87%	6.87%	6.72%	6.18%	6.08%	6.08%	6.08%	6.08%
Working Capital Allowance								
Working Capital Allowance Rate	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
<i>(% of the sum of Cost of Power + controllable expenses)</i>								
Taxes/PILs								
Aggregate Corporate Income Tax Rate	18.62%	18.62%	16.50%	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	7	7	7	7	7	7	7	7
- rate (%)	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%
Computer Software - years	7	7	7	7	7	7	7	7
- rate (%)	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%
Tools & Equipment - years	7	7	7	7	7	7	7	7
- rate (%)	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%
Other Equipment - years	7	7	7	7	7	7	7	7
- rate (%)	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%	14.29%

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	45	50	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%	100%

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.



Smart Meter Model for Electricity Distributors (2013 Filers)

	2006	2007	2008	2009	2010	2011	2012	2013
Net Fixed Assets - Smart Meters								
Gross Book Value								
Opening Balance		\$ -	\$ -	\$ -	\$ 1,056,705	\$ 1,162,736	\$ 1,283,017	\$ 1,314,017
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 1,056,705	\$ 106,031	\$ 120,281	\$ 31,000	\$ -
Retirements/Removals (if applicable)								
Closing Balance	\$ -	\$ -	\$ -	\$ 1,056,705	\$ 1,162,736	\$ 1,283,017	\$ 1,314,017	\$ 1,314,017
Accumulated Depreciation								
Opening Balance		\$ -	\$ -	\$ -	-\$ 35,224	-\$ 109,205	-\$ 190,730	-\$ 277,298
Amortization expense during year	\$ -	\$ -	\$ -	-\$ 35,224	-\$ 73,981	-\$ 81,525	-\$ 86,568	-\$ 87,601
Retirements/Removals (if applicable)								
Closing Balance	\$ -	\$ -	\$ -	-\$ 35,224	-\$ 109,205	-\$ 190,730	-\$ 277,298	-\$ 364,899
Net Book Value								
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 1,021,482	\$ 1,053,531	\$ 1,092,287	\$ 1,036,720
Closing Balance	\$ -	\$ -	\$ -	\$ 1,021,482	\$ 1,053,531	\$ 1,092,287	\$ 1,036,720	\$ 949,118
Average Net Book Value	\$ -	\$ -	\$ -	\$ 510,741	\$ 1,037,506	\$ 1,072,909	\$ 1,064,503	\$ 992,919
Net Fixed Assets - Computer Hardware								
Gross Book Value								
Opening Balance		\$ -	\$ 13,309	\$ 29,159	\$ 53,472	\$ 53,472	\$ 53,472	\$ 53,472
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ 13,309	\$ 15,850	\$ 24,313	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)								
Closing Balance	\$ -	\$ 13,309	\$ 29,159	\$ 53,472	\$ 53,472	\$ 53,472	\$ 53,472	\$ 53,472
Accumulated Depreciation								
Opening Balance	\$ -	\$ -	-\$ 951	-\$ 3,984	-\$ 9,886	-\$ 17,525	-\$ 25,164	-\$ 32,803
Amortization expense during year	\$ -	-\$ 951	-\$ 3,033	-\$ 5,902	-\$ 7,639	-\$ 7,639	-\$ 7,639	-\$ 7,639
Retirements/Removals (if applicable)								
Closing Balance	\$ -	-\$ 951	-\$ 3,984	-\$ 9,886	-\$ 17,525	-\$ 25,164	-\$ 32,803	-\$ 40,442
Net Book Value								
Opening Balance	\$ -	\$ -	\$ 12,358	\$ 25,175	\$ 43,586	\$ 35,947	\$ 28,308	\$ 20,669
Closing Balance	\$ -	\$ 12,358	\$ 25,175	\$ 43,586	\$ 35,947	\$ 28,308	\$ 20,669	\$ 13,030
Average Net Book Value	\$ -	\$ 6,179	\$ 18,767	\$ 34,380	\$ 39,766	\$ 32,127	\$ 24,489	\$ 16,850

Net Fixed Assets - Computer Software (including Applications Software)

Gross Book Value								
Opening Balance		\$ -	\$ -	\$ -	\$ 22,833	\$ 28,366	\$ 30,618	\$ 30,618
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 22,833	\$ 5,533	\$ 2,252	\$ -	\$ -
Retirements/Removals (if applicable)								
Closing Balance	\$ -	\$ -	\$ -	\$ 22,833	\$ 28,366	\$ 30,618	\$ 30,618	\$ 30,618
Accumulated Depreciation								
Opening Balance	\$ -	\$ -	\$ -	\$ -	-\$ 1,631	-\$ 5,288	-\$ 9,501	-\$ 13,875
Amortization expense during year	\$ -	\$ -	\$ -	-\$ 1,631	-\$ 3,657	-\$ 4,213	-\$ 4,374	-\$ 4,374
Retirements/Removals (if applicable)								
Closing Balance	\$ -	\$ -	\$ -	-\$ 1,631	-\$ 5,288	-\$ 9,501	-\$ 13,875	-\$ 18,249
Net Book Value								
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 21,202	\$ 23,078	\$ 21,117	\$ 16,743
Closing Balance	\$ -	\$ -	\$ -	\$ 21,202	\$ 23,078	\$ 21,117	\$ 16,743	\$ 12,369
Average Net Book Value	\$ -	\$ -	\$ -	\$ 10,601	\$ 22,140	\$ 22,097	\$ 18,930	\$ 14,556

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		\$ -	\$ -	\$ -	\$ 1,501	\$ 1,501	\$ 1,501	\$ 1,501
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 1,501	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)								
Closing Balance	\$ -	\$ -	\$ -	\$ 1,501	\$ 1,501	\$ 1,501	\$ 1,501	\$ 1,501
Accumulated Depreciation								
Opening Balance	\$ -	\$ -	\$ -	\$ -	-\$ 107	-\$ 322	-\$ 536	-\$ 751
Amortization expense during year	\$ -	\$ -	\$ -	-\$ 107	-\$ 214	-\$ 214	-\$ 214	-\$ 214
Retirements/Removals (if applicable)								
Closing Balance	\$ -	\$ -	\$ -	-\$ 107	-\$ 322	-\$ 536	-\$ 751	-\$ 965
Net Book Value								
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 1,394	\$ 1,179	\$ 965	\$ 751
Closing Balance	\$ -	\$ -	\$ -	\$ 1,394	\$ 1,179	\$ 965	\$ 751	\$ 536
Average Net Book Value	\$ -	\$ -	\$ -	\$ 697	\$ 1,287	\$ 1,072	\$ 858	\$ 643



Smart Meter Model for Electricity Distributors (2013 Filers)

	2006	2007	2008	2009	2010	2011	2012	2013
Average Net Fixed Asset Values (from Sheet 4)								
Smart Meters	\$ -	\$ -	\$ -	\$ 510,741	\$ 1,037,506	\$ 1,072,909	\$ 1,064,503	\$ 992,919
Computer Hardware	\$ -	\$ 6,179	\$ 18,767	\$ 34,380	\$ 39,766	\$ 32,127	\$ 24,489	\$ 16,850
Computer Software	\$ -	\$ -	\$ -	\$ 10,601	\$ 22,140	\$ 22,097	\$ 18,930	\$ 14,556
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ 697	\$ 1,287	\$ 1,072	\$ 858	\$ 643
Total Net Fixed Assets	\$ -	\$ 6,179	\$ 18,767	\$ 556,419	\$ 1,100,699	\$ 1,128,206	\$ 1,108,780	\$ 1,024,968
Working Capital								
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ -	\$ 94,917	\$ 122,555	\$ 165,422	\$ 122,289	\$ -
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ -	\$ 14,238	\$ 18,383	\$ 24,813	\$ 18,343	\$ -
Incremental Smart Meter Rate Base	\$ -	\$ 6,179	\$ 18,767	\$ 570,657	\$ 1,119,082	\$ 1,153,020	\$ 1,127,123	\$ 1,024,968
Return on Rate Base								
Capital Structure								
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ 22,826	\$ 44,763	\$ 46,121	\$ 45,085	\$ 40,999
Deemed Long Term Debt	\$ -	\$ 3,090	\$ 10,003	\$ 300,736	\$ 626,686	\$ 645,691	\$ 631,189	\$ 573,982
Equity	\$ -	\$ 3,090	\$ 8,764	\$ 247,094	\$ 447,633	\$ 461,208	\$ 450,849	\$ 409,987
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ 6,179	\$ 18,767	\$ 570,657	\$ 1,119,082	\$ 1,153,020	\$ 1,127,123	\$ 1,024,968
Return on								
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ 304	\$ 595	\$ 613	\$ 600	\$ 545
Deemed Long Term Debt	\$ -	\$ 146	\$ 473	\$ 15,157	\$ 31,585	\$ 32,543	\$ 31,812	\$ 28,929
Equity	\$ -	\$ 278	\$ 789	\$ 19,792	\$ 35,855	\$ 36,943	\$ 36,113	\$ 32,840
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ 424	\$ 1,262	\$ 35,253	\$ 68,036	\$ 70,099	\$ 68,525	\$ 62,314
Operating Expenses	\$ -	\$ -	\$ -	\$ 94,917	\$ 122,555	\$ 165,422	\$ 122,289	\$ -
Amortization Expenses (from Sheet 4)								
Smart Meters	\$ -	\$ -	\$ -	\$ 35,224	\$ 73,981	\$ 81,525	\$ 86,568	\$ 87,601
Computer Hardware	\$ -	\$ 951	\$ 3,033	\$ 5,902	\$ 7,639	\$ 7,639	\$ 7,639	\$ 7,639
Computer Software	\$ -	\$ -	\$ -	\$ 1,631	\$ 3,657	\$ 4,213	\$ 4,374	\$ 4,374
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ 107	\$ 214	\$ 214	\$ 214	\$ 214
Total Amortization Expense in Year	\$ -	\$ 951	\$ 3,033	\$ 42,864	\$ 85,492	\$ 93,592	\$ 98,795	\$ 99,828
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ 1,375	\$ 4,295	\$ 173,034	\$ 276,082	\$ 329,113	\$ 289,609	\$ 162,142
Calculation of Taxable Income								
Incremental Operating Expenses	\$ -	\$ -	\$ -	\$ 94,917	\$ 122,555	\$ 165,422	\$ 122,289	\$ -
Amortization Expense	\$ -	\$ 951	\$ 3,033	\$ 42,864	\$ 85,492	\$ 93,592	\$ 98,795	\$ 99,828
Interest Expense	\$ -	\$ 146	\$ 473	\$ 15,461	\$ 32,180	\$ 33,156	\$ 32,412	\$ 29,474
Net Income for Taxes/PILs	\$ -	\$ 278	\$ 789	\$ 19,792	\$ 35,855	\$ 36,943	\$ 36,113	\$ 32,840
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	-\$ 528.48	-\$ 1,098.06	\$ 2,163.55	\$ 3,014.53	\$ 5,439.19	\$ 7,628.03	\$ 8,922.65
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ 846	\$ 3,197	\$ 175,197	\$ 279,097	\$ 334,552	\$ 297,237	\$ 171,065



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	\$ -	\$ -	\$ -	\$ -	\$ 1,014,436.80	\$ 1,035,071.62	\$ 1,067,736.00	\$ 1,012,077.12
Capital Additions	\$ -	\$ -	\$ -	\$ 1,056,705.00	\$ 106,031.00	\$ 120,281.37	\$ 31,000.00	\$ -
Retirements/Removals (if applicable)								
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 1,056,705.00	\$ 1,120,467.80	\$ 1,155,352.99	\$ 1,098,736.00	\$ 1,012,077.12
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 528,352.50	\$ 53,015.50	\$ 60,140.69	\$ 15,500.00	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 528,352.50	\$ 1,067,452.30	\$ 1,095,212.30	\$ 1,083,236.00	\$ 1,012,077.12
CCA Rate Class	47	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 42,268.20	\$ 85,396.18	\$ 87,616.98	\$ 86,658.88	\$ 80,966.17
Closing UCC	\$ -	\$ -	\$ -	\$ 1,014,436.80	\$ 1,035,071.62	\$ 1,067,736.00	\$ 1,012,077.12	\$ 931,110.95

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	\$ -	\$ -	\$ 9,649.03	\$ 15,833.31	\$ 41,305.84	\$ 22,599.05	\$ 11,802.27	\$ 5,311.02
Capital Additions Computer Hardware	\$ -	\$ 13,309.00	\$ 15,850.00	\$ 24,313.00	\$ -	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ 22,833.00	\$ 5,533.00	\$ 2,252.00	\$ -	\$ -
Retirements/Removals (if applicable)								
UCC Before Half Year Rule	\$ -	\$ 13,309.00	\$ 25,499.03	\$ 62,979.31	\$ 46,838.84	\$ 24,851.05	\$ 11,802.27	\$ 5,311.02
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ 6,654.50	\$ 7,925.00	\$ 23,573.00	\$ 2,766.50	\$ 1,126.00	\$ -	\$ -
Reduced UCC	\$ -	\$ 6,654.50	\$ 17,574.03	\$ 39,406.31	\$ 44,072.34	\$ 23,725.05	\$ 11,802.27	\$ 5,311.02
CCA Rate Class	45	50	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ 3,659.98	\$ 9,665.71	\$ 21,673.47	\$ 24,239.79	\$ 13,048.78	\$ 6,491.25	\$ 2,921.06
Closing UCC	\$ -	\$ 9,649.03	\$ 15,833.31	\$ 41,305.84	\$ 22,599.05	\$ 11,802.27	\$ 5,311.02	\$ 2,389.96

UCC - General Equipment

	2006	2007	2008	2009	2010	2011	2012	2013
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 1,350.90	\$ 1,080.72	\$ 864.58	\$ 691.66
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ 1,501.00	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)								
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 1,501.00	\$ 1,350.90	\$ 1,080.72	\$ 864.58	\$ 691.66
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 750.50	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 750.50	\$ 1,350.90	\$ 1,080.72	\$ 864.58	\$ 691.66
CCA Rate Class	8	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ 150.10	\$ 270.18	\$ 216.14	\$ 172.92	\$ 138.33
Closing UCC	\$ -	\$ -	\$ -	\$ 1,350.90	\$ 1,080.72	\$ 864.58	\$ 691.66	\$ 553.33

UCC - Applications Software

	2006	2007	2008	2009	2010	2011	2012	2013
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)								
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	12	12	12	12	12	12	12	12
CCA Rate	100%	100%	100%	100%	100%	100%	100%	100%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



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
INCOME TAX								
Net Income	\$ -	\$ 278.06	\$ 788.76	\$ 19,792.25	\$ 35,855.40	\$ 36,942.75	\$ 36,113.02	\$ 32,839.97
Amortization	\$ -	\$ 950.64	\$ 3,033.43	\$ 42,863.86	\$ 85,491.72	\$ 93,591.54	\$ 98,795.11	\$ 99,828.44
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 42,268.20	\$ 85,396.18	\$ 87,616.98	\$ 86,658.88	\$ 80,966.17
CCA - Computers	\$ -	\$ 3,659.98	\$ 9,665.71	\$ 21,673.47	\$ 24,239.79	\$ 13,048.78	\$ 6,491.25	\$ 2,921.06
CCA - Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ 150.10	\$ 270.18	\$ 216.14	\$ 172.92	\$ 138.33
Change in taxable income	\$ -	\$ 2,431.27	\$ 5,843.52	\$ 1,435.66	\$ 11,440.97	\$ 29,652.38	\$ 41,585.08	\$ 48,642.85
Tax Rate (from Sheet 3)	18.62%	18.62%	16.50%	16.50%	16.00%	15.50%	15.50%	15.50%
Income Taxes Payable	\$ -	\$ 452.70	\$ 964.18	\$ 236.88	\$ 1,830.56	\$ 4,596.12	\$ 6,445.69	\$ 7,539.64
ONTARIO CAPITAL TAX								
Smart Meters	\$ -	\$ -	\$ -	\$ 1,021,481.50	\$ 1,053,531.13	\$ 1,092,287.39	\$ 1,036,719.57	\$ 949,118.41
Computer Hardware	\$ -	\$ 12,358.36	\$ 25,174.93	\$ 43,585.71	\$ 35,946.86	\$ 28,308.00	\$ 20,669.14	\$ 13,030.29
Computer Software (Including Application Software)	\$ -	\$ -	\$ -	\$ 21,202.07	\$ 23,078.00	\$ 21,116.86	\$ 16,742.86	\$ 12,368.86
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ 1,393.79	\$ 1,179.36	\$ 964.93	\$ 750.50	\$ 536.07
Rate Base	\$ -	\$ 12,358.36	\$ 25,174.93	\$ 1,087,663.07	\$ 1,113,735.35	\$ 1,142,677.18	\$ 1,074,882.07	\$ 975,053.62
Less: Exemption								
Deemed Taxable Capital	\$ -	\$ 12,358.36	\$ 25,174.93	\$ 1,087,663.07	\$ 1,113,735.35	\$ 1,142,677.18	\$ 1,074,882.07	\$ 975,053.62
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)	\$ -	\$ 27.81	\$ 56.64	\$ 2,447.24	\$ 835.30	\$ -	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ 452.70	\$ 964.18	\$ 236.88	\$ 1,830.56	\$ 4,596.12	\$ 6,445.69	\$ 7,539.64
Change in OCT	\$ -	\$ 27.81	\$ 56.64	\$ 2,447.24	\$ 835.30	\$ -	\$ -	\$ -
PILs	\$ -	\$ 424.90	\$ 907.54	\$ 2,210.36	\$ 2,665.86	\$ 4,596.12	\$ 6,445.69	\$ 7,539.64
Gross Up PILs								
Tax Rate	18.62%	18.62%	16.50%	16.50%	16.00%	15.50%	15.50%	15.50%
Change in Income Taxes Payable	\$ -	\$ 556.28	\$ 1,154.71	\$ 283.69	\$ 2,179.23	\$ 5,439.19	\$ 7,628.03	\$ 8,922.65
Change in OCT	\$ -	\$ 27.81	\$ 56.64	\$ 2,447.24	\$ 835.30	\$ -	\$ -	\$ -
PILs	\$ -	\$ 528.48	\$ 1,098.06	\$ 2,163.55	\$ 3,014.53	\$ 5,439.19	\$ 7,628.03	\$ 8,922.65



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	\$ -	\$ 1,439.82	4.59%	\$ -	\$ 1,439.82		\$ 0.26
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ 1,439.82	\$ 1,562.83	4.59%	\$ 5.51	\$ 3,008.16		\$ 0.26
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ 3,002.65	\$ 1,580.18	4.59%	\$ 11.49	\$ 4,594.32		\$ 0.26
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ 4,582.83	\$ 1,575.44	4.59%	\$ 17.53	\$ 6,175.80		\$ 0.26
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ 6,158.27	\$ 1,599.75	4.59%	\$ 23.56	\$ 7,781.58		\$ 0.26
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ 7,758.02	\$ 1,604.13	4.59%	\$ 29.67	\$ 9,391.82	\$ 9,449.91	\$ 0.26
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ 9,362.15	\$ 1,604.22	4.59%	\$ 35.81	\$ 11,002.18		\$ 0.26
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ 10,966.37	\$ 1,568.80	4.59%	\$ 41.95	\$ 12,577.12		\$ 0.26
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ 12,535.17	\$ 1,593.89	4.59%	\$ 47.95	\$ 14,177.01		\$ 0.26
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ 14,129.06	\$ 1,594.51	4.59%	\$ 54.04	\$ 15,777.61		\$ 0.26
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ 15,723.57	\$ 1,606.19	4.59%	\$ 60.14	\$ 17,389.90		\$ 0.26
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ 17,329.76	\$ 1,585.38	4.59%	\$ 66.29	\$ 18,981.43		\$ 0.26
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ 18,915.14	\$ 1,594.99	4.59%	\$ 72.35	\$ 20,582.48		\$ 0.26
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ 20,510.13	\$ 1,566.74	4.59%	\$ 78.45	\$ 22,155.32		\$ 0.26
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ 22,076.87	\$ 1,548.32	4.59%	\$ 84.44	\$ 23,709.63		\$ 0.26
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ 23,625.19	\$ 1,645.89	5.14%	\$ 101.19	\$ 25,372.27		\$ 0.26
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ 25,271.08	\$ 1,515.23	5.14%	\$ 108.24	\$ 26,894.55		\$ 0.26
2011 Q4	1.47%	3.92%	Dec-07	2007	Q4	\$ 26,786.31	\$ 1,602.30	5.14%	\$ 114.73	\$ 28,503.34	\$ 19,892.04	\$ 0.26
2012 Q1	1.47%	3.92%	Jan-08	2008	Q1	\$ 28,388.61	\$ 1,878.22	5.14%	\$ 121.60	\$ 30,388.43		\$ 0.26
2012 Q2	1.47%	3.51%	Feb-08	2008	Q1	\$ 30,266.83	\$ 1,592.15	5.14%	\$ 129.64	\$ 31,988.62		\$ 0.26
2012 Q3	1.47%	3.51%	Mar-08	2008	Q1	\$ 31,858.98	\$ 1,567.14	5.14%	\$ 136.46	\$ 33,562.58		\$ 0.26
2012 Q4	1.47%		Apr-08	2008	Q2	\$ 33,426.12	\$ 1,557.90	4.08%	\$ 113.65	\$ 35,097.67		\$ 0.26
2013 Q1			May-08	2008	Q2	\$ 34,984.02	\$ 1,494.18	4.08%	\$ 118.95	\$ 36,597.15		\$ 0.26
2013 Q2			Jun-08	2008	Q2	\$ 36,478.20	\$ 1,486.24	4.08%	\$ 124.03	\$ 38,088.47		\$ 0.26
2013 Q3			Jul-08	2008	Q3	\$ 37,964.44	\$ 1,732.35	3.35%	\$ 105.98	\$ 39,802.77		\$ 0.26
2013 Q4			Aug-08	2008	Q3	\$ 39,696.79	\$ 1,605.29	3.35%	\$ 110.82	\$ 41,412.90		\$ 0.26
			Sep-08	2008	Q3	\$ 41,302.08	\$ 1,516.48	3.35%	\$ 115.30	\$ 42,933.86		\$ 0.26
			Oct-08	2008	Q4	\$ 42,818.56	\$ 1,577.67	3.35%	\$ 119.54	\$ 44,515.77		\$ 0.26
			Nov-08	2008	Q4	\$ 44,396.23	\$ 1,563.51	3.35%	\$ 123.94	\$ 46,083.68		\$ 0.26
			Dec-08	2008	Q4	\$ 45,959.74	\$ 1,580.50	3.35%	\$ 128.30	\$ 47,668.54	\$ 20,599.84	\$ 0.26
			Jan-09	2009	Q1	\$ 47,540.24	\$ 1,692.51	2.45%	\$ 97.06	\$ 49,329.81		\$ 0.26
			Feb-09	2009	Q1	\$ 49,232.75	\$ 1,580.27	2.45%	\$ 100.52	\$ 50,913.54		\$ 0.26
			Mar-09	2009	Q1	\$ 50,813.02	\$ 1,552.46	2.45%	\$ 103.74	\$ 52,469.22		\$ 0.26
			Apr-09	2009	Q2	\$ 52,365.48	\$ 1,553.18	1.00%	\$ 43.64	\$ 53,962.30		\$ 0.26
			May-09	2009	Q2	\$ 53,918.66	\$ 1,586.06	1.00%	\$ 44.93	\$ 55,549.65		\$ 0.26
			Jun-09	2009	Q2	\$ 55,504.72	\$ 5,871.61	1.00%	\$ 46.25	\$ 61,422.58		\$ 1.00
			Jul-09	2009	Q3	\$ 61,376.33	\$ 6,088.28	0.55%	\$ 28.13	\$ 67,492.74		\$ 1.00
			Aug-09	2009	Q3	\$ 67,464.61	\$ 6,127.79	0.55%	\$ 30.92	\$ 73,623.32		\$ 1.00
			Sep-09	2009	Q3	\$ 73,592.40	\$ 5,904.94	0.55%	\$ 33.73	\$ 79,531.07		\$ 1.00
			Oct-09	2009	Q4	\$ 79,497.34	\$ 6,400.74	0.55%	\$ 36.44	\$ 85,934.52		\$ 1.00
			Nov-09	2009	Q4	\$ 85,898.08	\$ 6,088.56	0.55%	\$ 39.37	\$ 92,026.01		\$ 1.00
			Dec-09	2009	Q4	\$ 91,986.64	\$ 6,045.70	0.55%	\$ 42.16	\$ 98,074.50	\$ 51,138.99	\$ 1.00
			Jan-10	2010	Q1	\$ 98,032.34	\$ 6,085.70	0.55%	\$ 44.93	\$ 104,162.97		\$ 1.00
			Feb-10	2010	Q1	\$ 104,118.04	\$ 5,951.79	0.55%	\$ 47.72	\$ 110,117.55		\$ 1.00
			Mar-10	2010	Q1	\$ 110,069.83	\$ 6,086.24	0.55%	\$ 50.45	\$ 116,206.52		\$ 1.00
			Apr-10	2010	Q2	\$ 116,156.07	\$ 6,050.87	0.55%	\$ 53.24	\$ 122,260.18		\$ 1.00
			May-10	2010	Q2	\$ 122,206.94	\$ 6,019.82	0.55%	\$ 56.01	\$ 128,282.77		\$ 1.00
			Jun-10	2010	Q2	\$ 128,226.76	\$ 5,985.10	0.55%	\$ 58.77	\$ 134,270.63		\$ 1.00
			Jul-10	2010	Q3	\$ 134,211.86	\$ 6,000.65	0.89%	\$ 99.54	\$ 140,312.05		\$ 1.00
			Aug-10	2010	Q3	\$ 140,212.51	\$ 5,945.61	0.89%	\$ 103.99	\$ 146,262.11		\$ 1.00
			Sep-10	2010	Q3	\$ 146,158.12	\$ 6,079.40	0.89%	\$ 108.40	\$ 152,345.92		\$ 1.00
			Oct-10	2010	Q4	\$ 152,237.52	\$ 5,985.23	1.20%	\$ 152.24	\$ 158,374.99		\$ 1.00
			Nov-10	2010	Q4	\$ 158,222.75	\$ 6,012.05	1.20%	\$ 158.22	\$ 164,393.02		\$ 1.00
			Dec-10	2010	Q4	\$ 164,234.80	\$ 6,045.61	1.20%	\$ 164.23	\$ 170,444.64	\$ 73,345.81	\$ 1.00
			Jan-11	2011	Q1	\$ 170,280.41	\$ 6,010.16	1.47%	\$ 208.59	\$ 176,499.16		\$ 1.00
			Feb-11	2011	Q1	\$ 176,290.57	\$ 5,984.61	1.47%	\$ 215.96	\$ 182,491.14		\$ 1.00
			Mar-11	2011	Q1	\$ 182,275.18	\$ 6,013.34	1.47%	\$ 223.29	\$ 188,511.81		\$ 1.00
			Apr-11	2011	Q2	\$ 188,288.52	\$ 6,018.25	1.47%	\$ 230.65	\$ 194,537.42		\$ 1.00
			May-11	2011	Q2	\$ 194,306.77	\$ 6,039.97	1.47%	\$ 238.03	\$ 200,584.77		\$ 1.00
			Jun-11	2011	Q2	\$ 200,346.74	\$ 15,024.97	1.47%	\$ 245.42	\$ 215,617.13		\$ 2.50
			Jul-11	2011	Q3	\$ 215,371.71	\$ 14,951.72	1.47%	\$ 263.83	\$ 230,587.26		\$ 2.50
			Aug-11	2011	Q3	\$ 230,323.43	\$ 14,985.90	1.47%	\$ 282.15	\$ 245,591.48		\$ 2.50
			Sep-11	2011	Q3	\$ 245,309.33	\$ 15,108.45	1.47%	\$ 300.50	\$ 260,718.28		\$ 2.50
			Oct-11	2011	Q4	\$ 260,417.78	\$ 14,951.58	1.47%	\$ 319.01	\$ 275,688.37		\$ 2.50
			Nov-11	2011	Q4	\$ 275,369.36	\$ 15,085.61	1.47%	\$ 337.33	\$ 290,792.30		\$ 2.50
			Dec-11	2011	Q4	\$ 290,454.97	\$ 15,085.17	1.47%	\$ 355.81	\$ 305,895.95	\$ 138,480.30	\$ 2.50



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)
			Jan-12	2012	Q1	\$ 305,540.14	\$ 15,066.58	1.47%	\$ 374.29	\$ 320,981.01		\$ 2.50
			Feb-12	2012	Q1	\$ 320,606.72	\$ 15,082.06	1.47%	\$ 392.74	\$ 336,081.52		\$ 2.50
			Mar-12	2012	Q1	\$ 335,688.78	\$ 15,066.75	1.47%	\$ 411.22	\$ 351,166.75		\$ 2.50
			Apr-12	2012	Q2	\$ 350,755.53	\$ 15,086.73	1.47%	\$ 429.68	\$ 366,271.94		\$ 2.50
			May-12	2012	Q2	\$ 365,842.26	\$ 15,083.96	1.47%	\$ 448.16	\$ 381,374.38		\$ 2.50
			Jun-12	2012	Q2	\$ 380,926.22	\$ 8.06	1.47%	\$ 466.63	\$ 381,400.91		\$ 2.50
			Jul-12	2012	Q3	\$ 380,934.28		1.47%	\$ 466.64	\$ 381,400.92		
			Aug-12	2012	Q3	\$ 380,934.28		1.47%	\$ 466.64	\$ 381,400.92		
			Sep-12	2012	Q3	\$ 380,934.28		1.47%	\$ 466.64	\$ 381,400.92		
			Oct-12	2012	Q4	\$ 380,934.28		1.47%	\$ 466.64	\$ 381,400.92		
			Nov-12	2012	Q4	\$ 380,934.28		1.47%	\$ 466.64	\$ 381,400.92		
			Dec-12	2012	Q4	\$ 380,934.28		1.47%	\$ 466.64	\$ 381,400.92	\$ 80,716.70	
			Jan-13	2013	Q1	\$ 380,934.28		0.00%	\$ -	\$ 380,934.28		
			Feb-13	2013	Q1	\$ 380,934.28		0.00%	\$ -	\$ 380,934.28		
			Mar-13	2013	Q1	\$ 380,934.28		0.00%	\$ -	\$ 380,934.28		
			Apr-13	2013	Q2	\$ 380,934.28		0.00%	\$ -	\$ 380,934.28		
			May-13	2013	Q2	\$ 380,934.28		0.00%	\$ -	\$ 380,934.28		
			Jun-13	2013	Q2	\$ 380,934.28		0.00%	\$ -	\$ 380,934.28		
			Jul-13	2013	Q3	\$ 380,934.28		0.00%	\$ -	\$ 380,934.28		
			Aug-13	2013	Q3	\$ 380,934.28		0.00%	\$ -	\$ 380,934.28		
			Sep-13	2013	Q3	\$ 380,934.28		0.00%	\$ -	\$ 380,934.28		
			Oct-13	2013	Q4	\$ 380,934.28		0.00%	\$ -	\$ 380,934.28		
			Nov-13	2013	Q4	\$ 380,934.28		0.00%	\$ -	\$ 380,934.28		
			Dec-13	2013	Q4	\$ 380,934.28		0.00%	\$ -	\$ 380,934.28	\$ -	
Total Funding Adder Revenues Collected							\$ 380,934.28		\$ 12,689.31	\$ 393,623.59	\$ 393,623.59	



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 (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%	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%	0.00%	Apr-08	2008	Q2	-			-	4.08%	-	-
2013 Q1	0.00%	0.00%	May-08	2008	Q2	-			-	4.08%	-	-
2013 Q2	0.00%	0.00%	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%	-	-

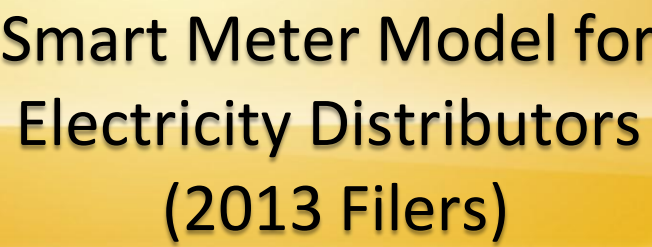
Jun-09	2009	Q2	-			-	1.00%	-	-
Jul-09	2009	Q3	-	\$ 1,527.27		1,527.27	0.55%	-	-
Aug-09	2009	Q3	1,527.27	\$ 4,173.00		5,700.27	0.55%	0.70	0.70
Sep-09	2009	Q3	5,700.27	\$ 1,350.61		7,050.88	0.55%	2.61	3.31
Oct-09	2009	Q4	7,050.88	\$ 7,165.05		14,215.93	0.55%	3.23	6.54
Nov-09	2009	Q4	14,215.93	\$ 43,614.83		57,830.76	0.55%	6.52	13.06
Dec-09	2009	Q4	57,830.76	\$ 37,086.56	\$ 37,202.00	132,119.32	0.55%	26.51	39.57
Jan-10	2010	Q1	132,119.32	\$ 7,162.68	\$ 6,200.00	145,482.00	0.55%	60.55	100.12
Feb-10	2010	Q1	145,482.00	\$ 1,094.28	\$ 6,200.00	152,776.28	0.55%	66.68	166.80
Mar-10	2010	Q1	152,776.28	\$ 1,148.83	\$ 6,200.00	160,125.11	0.55%	70.02	236.82
Apr-10	2010	Q2	160,125.11	\$ 24,408.71	\$ 6,200.00	190,733.82	0.55%	73.39	310.21
May-10	2010	Q2	190,733.82	\$ 8,964.85	\$ 6,200.00	205,898.67	0.55%	87.42	397.63
Jun-10	2010	Q2	205,898.67	\$ 1,094.66	\$ 6,200.00	213,193.33	0.55%	94.37	492.00
Jul-10	2010	Q3	213,193.33	\$ 8,743.18	\$ 6,200.00	228,136.51	0.89%	158.12	650.12
Aug-10	2010	Q3	228,136.51	\$ 8,962.56	\$ 6,200.00	243,299.07	0.89%	169.20	819.32
Sep-10	2010	Q3	243,299.07	\$ 9,588.89	\$ 6,200.00	259,087.96	0.89%	180.45	999.77
Oct-10	2010	Q4	259,087.96	\$ 9,590.49	\$ 6,200.00	274,878.45	1.20%	259.09	1,258.86
Nov-10	2010	Q4	274,878.45	\$ 9,710.83	\$ 6,200.00	290,789.28	1.20%	274.88	1,533.74
Dec-10	2010	Q4	290,789.28	\$ 32,087.40	\$ 31,015.00	353,891.68	1.20%	290.79	1,824.52
Jan-11	2011	Q1	353,891.68	\$ 19,617.67	\$ 6,985.00	380,494.35	1.47%	433.52	2,258.04
Feb-11	2011	Q1	380,494.35	\$ 10,026.47	\$ 6,985.00	397,505.82	1.47%	466.11	2,724.15
Mar-11	2011	Q1	397,505.82	\$ 10,183.00	\$ 6,985.00	414,673.82	1.47%	486.94	3,211.09
Apr-11	2011	Q2	414,673.82	\$ 15,630.31	\$ 6,985.00	437,289.13	1.47%	507.98	3,719.07
May-11	2011	Q2	437,289.13	\$ 10,089.80	\$ 6,985.00	454,363.93	1.47%	535.68	4,254.75
Jun-11	2011	Q2	454,363.93	\$ 9,464.95	\$ 6,985.00	470,813.88	1.47%	556.60	4,811.34
Jul-11	2011	Q3	470,813.88	\$ 9,051.84	\$ 6,985.00	486,850.72	1.47%	576.75	5,388.09
Aug-11	2011	Q3	486,850.72	\$ 8,151.74	\$ 6,985.00	501,987.46	1.47%	596.39	5,984.48
Sep-11	2011	Q3	501,987.46	\$ 8,155.59	\$ 6,985.00	517,128.05	1.47%	614.93	6,599.42
Oct-11	2011	Q4	517,128.05	\$ 15,029.01	\$ 6,985.00	539,142.06	1.47%	633.48	7,232.90
Nov-11	2011	Q4	539,142.06	\$ 10,624.11	\$ 6,985.00	556,751.17	1.47%	660.45	7,893.35
Dec-11	2011	Q4	556,751.17	\$ 39,396.34	\$ 11,731.00	607,878.51	1.47%	682.02	8,575.37
Jan-12	2012	Q1	607,878.51			607,878.51	1.47%	744.65	9,320.02
Feb-12	2012	Q1	607,878.51			607,878.51	1.47%	744.65	10,064.67
Mar-12	2012	Q1	607,878.51			607,878.51	1.47%	744.65	10,809.32
Apr-12	2012	Q2	607,878.51			607,878.51	1.47%	744.65	11,553.97
May-12	2012	Q2	607,878.51			607,878.51	1.47%	744.65	12,298.62
Jun-12	2012	Q2	607,878.51			607,878.51	1.47%	744.65	13,043.27
Jul-12	2012	Q3	607,878.51			607,878.51	1.47%	744.65	13,787.93
Aug-12	2012	Q3	607,878.51			607,878.51	1.47%	744.65	14,532.58
Sep-12	2012	Q3	607,878.51			607,878.51	1.47%	744.65	15,277.23
Oct-12	2012	Q4	607,878.51			607,878.51	1.47%	744.65	16,021.88
Nov-12	2012	Q4	607,878.51			607,878.51	1.47%	744.65	16,766.53
Dec-12	2012	Q4	607,878.51			607,878.51	1.47%	744.65	17,511.18
Jan-13	2013	Q1	607,878.51			607,878.51	0.00%	-	17,511.18
Feb-13	2013	Q1	607,878.51			607,878.51	0.00%	-	17,511.18
Mar-13	2013	Q1	607,878.51			607,878.51	0.00%	-	17,511.18
Apr-13	2013	Q2	607,878.51			607,878.51	0.00%	-	17,511.18
May-13	2013	Q2	607,878.51			607,878.51	0.00%	-	17,511.18
Jun-13	2013	Q2	607,878.51			607,878.51	0.00%	-	17,511.18
Jul-13	2013	Q3	607,878.51			607,878.51	0.00%	-	17,511.18
Aug-13	2013	Q3	607,878.51			607,878.51	0.00%	-	17,511.18
Sep-13	2013	Q3	607,878.51			607,878.51	0.00%	-	17,511.18
Oct-13	2013	Q4	607,878.51			607,878.51	0.00%	-	17,511.18
Nov-13	2013	Q4	607,878.51			607,878.51	0.00%	-	17,511.18
Dec-13	2013	Q4	607,878.51			607,878.51	0.00%	-	17,511.18
			\$ 382,895.51	\$ 224,983.00	\$ 607,878.51				



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	\$ -	\$ 950.64	\$ 950.64	\$ 475.32	4.73%	\$ 22.47
2008	\$ -	\$ 3,033.43	\$ 3,984.07	\$ 2,467.36	3.98%	\$ 98.20
2009	\$ 94,917.00	\$ 42,863.86	\$ 141,764.93	\$ 72,874.50	1.14%	\$ 828.95
2010	\$ 122,555.00	\$ 85,491.72	\$ 349,811.65	\$ 245,788.29	0.80%	\$ 1,960.16
2011	\$ 165,422.00	\$ 93,591.54	\$ 608,825.19	\$ 479,318.42	1.47%	\$ 7,045.98
2012	\$ 122,289.00	\$ 98,795.11	\$ 829,909.30	\$ 719,367.25	1.47%	\$ 10,574.70
2013	\$ -	\$ 99,828.44	\$ 929,737.75	\$ 879,823.53	0.00%	\$ -
Cumulative Interest to 2011						\$ 9,955.76
Cumulative Interest to 2012						\$ 20,530.46
Cumulative Interest to 2013						\$ 20,530.46



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

<input type="checkbox"/>	Smart Meter Funding Adder (SMFA)
<input checked="" type="checkbox"/>	Smart Meter Disposition Rider (SMDR)
<input checked="" type="checkbox"/>	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)	\$ -	\$ 846.37	\$ 3,197.25	\$ 175,197.34	\$ 279,097.00	\$ 334,551.71	\$ 297,236.71	\$ 171,065.04	\$ 1,090,126.38
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ -	\$ 39.57	\$ 1,784.96	\$ 6,750.84	\$ 8,935.81		\$ 17,511.18
X Sheet 8A (Interest calculated on monthly balances)	\$ -	\$ -	\$ -	\$ 39.57	\$ 1,784.96	\$ 6,750.84	\$ 8,935.81	\$ -	\$ 17,511.18
Sheet 8B (Interest calculated on average annual balances)									
SMFA Revenues (from Sheet 8)	\$ 9,362.15	\$ 19,026.46	\$ 19,151.63	\$ 50,492.10	\$ 72,248.07	\$ 135,259.73	\$ 75,394.14	\$ -	\$ 380,934.28
SMFA Interest (from Sheet 8)	\$ 87.76	\$ 865.58	\$ 1,448.21	\$ 646.89	\$ 1,097.74	\$ 3,220.57	\$ 5,322.56	\$ -	\$ 12,689.31
Net Deferred Revenue Requirement	-\$ 9,449.91	-\$ 19,045.67	-\$ 17,402.59	\$ 124,097.92	\$ 207,536.14	\$ 202,822.26	\$ 225,455.83	\$ 171,065.04	\$ 714,013.97
Number of Metered Customers (average for 2013 test year) - 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)								6020	

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

Years for collection or refunding	1.333333333	
Deferred Incremental Revenue Requirement from 2006 to December 31, 2012 plus Interest on OM&A and Amortization	\$ 1,107,637.56	
SMFA Revenues collected from 2006 to 2013 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 393,623.59	
Net Deferred Revenue Requirement	\$ 714,013.97	} Match
SMDR Jan 1, 2013 to April 30, 2014	\$ 7.41	
Check: Forecasted SMDR Revenues	\$ 713,731.20	

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

Incremental Revenue Requirement for 2013	\$ 171,065.04	} Match
SMIRR	\$ 2.37	
Check: Forecasted SMIRR Revenues	\$ 171,208.80	



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 analogous support 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	2012	Total 2006 to 2012	Explanation / Allocator Check Row if SMDR/SMIRR apply to class	Residential	GS < 50 kW
										X	X
										%	%
Return on Capital	\$ -	\$ 424.20	\$ 1,261.89	\$ 35,252.94	\$ 68,035.74	\$ 70,098.98	\$ 68,524.57	\$ 243,598.31	Weighted Meter Cost - Capital Allocated per class	73.00%	27.00%
										\$ 177,826.76	\$ 65,771.54
Depreciation/Amortization expense and related interest	\$ -	\$ 950.64	\$ 3,033.43	\$ 42,863.86	\$ 85,491.72	\$ 93,591.54	\$ 98,795.11				
	\$ -	\$ -	\$ -	\$ 12.31	\$ 733.49	\$ 2,439.34	\$ 3,993.12		Weighted Meter Cost - Capital Allocated per class	73%	27%
	\$ -	\$ 950.64	\$ 3,033.43	\$ 42,876.17	\$ 86,225.21	\$ 96,030.88	\$ 102,788.23	\$ 331,904.55		\$ 242,290.32	\$ 89,614.23
Operating Expenses and related interest	\$ -	\$ -	\$ -	\$ 94,917.00	\$ 122,555.00	\$ 165,422.00	\$ 122,289.00		Number of Smart Meters installed by Class	#	#
	\$ -	\$ -	\$ -	\$ 27.26	\$ 1,051.47	\$ 4,311.50	\$ 4,942.70			5,239	750
	\$ -	\$ -	\$ -	\$ 94,944.26	\$ 123,606.47	\$ 169,733.50	\$ 127,231.70	\$ 515,515.93	Allocated per class	\$ 450,958.08	\$ 64,557.85
Revenue Requirement before Taxes/PILs								\$ 1,091,018.79		\$ 871,075.17	\$ 219,943.62
									Revenue Requirement before PILs	79.84%	20.16%
Grossed-up Taxes/PILs	\$ -	-\$ 528.48	-\$ 1,098.06	\$ 2,163.55	\$ 3,014.53	\$ 5,439.19	\$ 7,628.03	\$ 16,618.77		\$ 13,268.51	\$ 3,350.26
Total Revenue Requirement plus interest on OM&A and depreciation expense								\$ 1,107,637.56		\$ 884,343.69	\$ 223,293.88
								\$ -	Percentage of costs allocated to each class	79.84%	20.16%
									Percentage of costs for classes with SMDR/SMIRR	79.84%	20.16%
										79.84%	20.16%
									SMFA Revenues directly attributable to class	%	%
										86.45%	13.55%
									Residual SMFA Revenues (from other metered classes) attributed evenly	86.45%	13.55%
										0.00%	0.00%
									Total	86.45%	13.55%
SMFA Revenues plus interest expense								\$ 393,623.59		\$ 340,287.59	\$ 53,336.00
Net Deferred Revenue Requirement to be recovered via SMDR								\$ 714,013.97		\$ 544,056.09	\$ 169,957.88
Average number of metered customers by class (2013)									Average number of customers (2013)	5255	767
Number of Years for SMDR recovery								1.333333333 years		1.333333333	1.333333333
Smart Meter Disposition Rider (\$/month per metered customer in the customer class)										\$ 6.47	\$ 13.85
Estimated SMDR Revenues								\$ 713,964.80		\$ 543,997.60	\$ 169,967.20



Smart Meter Model for Electricity Distributors (2013 Filers)

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

Class-specific SMDRs

Revenue Requirement for 2013

	2013	Explanation / Allocator	Residential	GS < 50 kW
		Check Row if SMDR/SMIRR apply to class	X	X
			%	%
Return on Capital	\$ 62,313.95	Weighted Meter Cost - Capital Allocated per class	73.00% \$ 45,489.18	27.00% \$ 16,824.77
Depreciation/Amortization expense	\$ 99,828.44	Weighted Meter Cost - Capital Allocated per class	73.00% \$ 72,874.76	27.00% \$ 26,953.68
Operating Expenses	\$ -	Number of Smart Meters installed by Class	# 5,239	# 750
	\$ -	Allocated per class	\$ -	\$ -
Revenue Requirement before Taxes/PILs	\$ 162,142.39		\$ 118,363.94	\$ 43,778.44
		Revenue Requirement before PILs	73.00%	27.00%
Grossed-up Taxes/PILs	\$ 8,922.65		\$ 6,513.54	\$ 2,409.12
Total Revenue Requirement for 2013	\$ 171,065.04		\$ 124,877.48	\$ 46,187.56
	\$ -	Percentage of costs allocated to each class	73.00%	27.00%
		Percentage of costs for classes with SMDR/SMIRR	73.00%	27.00%
Average number of metered customers by class (2013)			5,255	767
The SMIRR is recovered as an annualized rate until the effective date of the distributor's next rebased rates resulting from a cost of service application	1 year		1	1
Smart Meter Incremental Revenue Requirement Rate Rider (\$/month per metered customer in the customer class)			\$ 1.98	\$ 5.02
Estimated SMIRR Revenues	\$ 171,062.88		\$ 124,858.80	\$ 46,204.08