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July 25, 2012

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

Re: EB-2012-0263 Bluewater Power Responses to Board Staff and VECC Interrogatories

Dear Ms. Walli:

Please find attached the responses of Bluewater Power to the OEB Board Staff Interrogatories and VECC Interrogatories.

Two hard copies will follow.

Sincerely,

L. Dugas

Leslie Dugas Manager of Regulatory Affairs Bluewater Power Distribution Corporation Phone: 519-337-8201 Ext 2255 Email: Idugas@bluewaterpower.com

CC via email:

Mr. Michael Janigan, <u>mjanigan@piac.ca</u> Ms. Shelley Grice, <u>shelley.grice@rogers.com</u>

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Bluewater Power Distribution Corporation 2012 Smart Meter Cost Recovery EB-2012-0263 Responses to Board Staff Interrogatories

General

1. Letters of Comment

Following publication of the Notice of Application, the Board has, to date, received no letters of comment. Please confirm whether Bluewater Power Distribution Corporation ("Bluewater Power") has received any letters of comment. If so, please file a copy of any letters of comment. For each, please confirm whether a reply was sent from Bluewater Power to the author of the letter. If confirmed, please file that reply with the Board. Please ensure that the author's contact information except for the name is redacted. If not confirmed, please explain why a response was not sent and confirm if Bluewater Power intends to respond.

1 Response

Bluewater Power has not received any letters of comment following publication of the Notice of Application that was published on Saturday June 30, 2012 in the Sarnia newspaper 'The Observer'.

Application

2. Ref: Application p10 and p21 – Smart Meters Installed

Table 3.1 on p10 indicates that 4 GS < 50 kW smart meters were installed in 2012. However, on p21 of the application, it states that installation of polyphase GS<50 kW smart meters began in November 2010 and the project was completed in November 2011. Bluewater shows no additions to residential smart meters in 2012 in Table 3.1 on p10. Please explain the additional 4 GS < 50 kW meters in 2012.

2 Response

There were 4 meters related to GS<50 customers installed between January and March 2012. These meters were not installed until 2012 due to either limited access or safety issues that were required to be resolved by the property owner prior to Bluewater Power completing the installation.

3. Ref: Application p13 – Pilot Study

In 2006, Bluewater Power completed a pilot study in the town of Watford using funds sourced from the 3rd MARR as a CDM program. Bluewater Power states that it is not seeking any costs for the pilot in the current application. On p13 of the application, Bluewater Power also states that it "spent a significant amount of time researching technologies, pilot programs and approaches taken by other utilities in the province."

a) With the exception of the Watford pilot, are the costs for the research included in the current application?

3(a) Response

Confirmed; the costs for researching technologies through conferences, vendor presentations, and utility visits are included in the current application.

Approximately \$28,958 of the \$38,263 is internal labour cost, the remainder being thirdparty costs such as conference fees and travel.

Our reference to 'pilot programs' in our pre-filed evidence was intended to include research on other utilities' pilot programs, rather than carrying out our own pilot programs.

b) If yes, what is the estimated cost for this activity, and when was the research conducted? Where are these costs represented in Sheet 2 of the smart meter model?

3(b) Response

The cost of research activities included in the current application is \$38,263 and those costs relate to activities that took place in the years 2006 through 2009. The majority of the cost relates to internal labour for the following efforts:

- Seven smart meter conferences were attended in the year's 2007 and 2008 by the Smart Meter Project Coordinator for research and advancement of the Smart Meter project
- Two vendor sessions were attended in 2009 by one staff member each
- Four utility visits occurred in 2009 and attended by one or two staff members each

These costs have been included as research costs in section 2.5.3 'Program Management' found in the Smart Meter Model.

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c) Have any of these costs been previously reviewed and approved in previous applications (i.e. Bluewater Power's 2009 cost of service application)?

3(c) Response

None of the costs claimed have been reviewed or approved in previous applications. Bluewater Power reached a settlement in its 2009 Cost of Service application, so we cannot point to any costs as being approved or denied, however the application did not include any forecast costs related to smart meters.

4. Ref: Application p12-32 – Procurement and Installation

Bluewater Power has provided a full commentary on its progression through procurement and installation of AMI related to minimum functionality and beyond minimum functionality. Please confirm whether the additional costs of each of the following is included in the costs that Bluewater Power is seeking approval for recovery in this Application. If yes, please quantify the costs.

a) P15 - AMI Selection

A preliminary vendor matrix was developed internally to compare the technical aspects of each vendor based on a needs analysis completed by all affected departments within Bluewater Power. Although the analysis revealed that there were clearly only two vendors that met the criteria the team identified in the departmental needs analysis, we felt it was important to continue to evaluate all vendors.

4(a) Response

The vendor matrix that was developed internally was intended to screen technologies and, ultimately, no vendors were disqualified because of issues identified in preparing the vendor matrix. Accordingly, the effort was truly preliminary because we decided to entertain proposals from all vendors. The cost associated with this effort was less than \$1000 and has been included in the capital costs for which we are seeking recovery.

b) P 17 – Meter Installation Vendor

In order to benefit from further sharing opportunities, Bluewater Power continued to work with London Hydro on the development of a Statement of Work for a possible Third Party Installation service provider RFQ. Bluewater Power was not satisfied with the pace of progress, so we turned to the OUSM Working Group to find alternative ways to work with other utilities. Bluewater Power utilized the Installation Service Provider RFQ template developed by the OUSM group.

4(b) Response

The proposal to work with London on the development of a Statement of Work was minimal. In fact, the primary reason for moving forward with the OUSM group was the lack of progress on the joint effort. Accordingly, the cost associated with this effort was less than \$1000 and has been included in the capital costs for which we are seeking recovery.

c) P17 - Meter Installation Vendor

The Smart Meter Installation Services RFP 433-08 was issued November 5, 2008 to five vendors. However, after a thorough evaluation of the proponent's responses to the RFP, Bluewater Power made the decision to terminate the process. The initial RFP had a limited response, which resulted in a lack of comparative data. In addition, concerns with health & safety could not be resolved by the proponents. Accordingly, the proponents were notified on January 29, 2009 that we would not be awarding the contract under that RFP.

4(c) Response

The labour associated with the development and analysis of the initial Installation vendor RFP was associated with the review of the two bids received. A team of six staff was put together to independently review the submissions and discuss the results. The decision was clear to the team that we could not move forward with either bid, and that the market for installers would improve by issuing another RFP at a later time. We estimate that the cost associated with those efforts was approximately \$1500 and has been included in the capital costs for which we are seeking recovery.

d) P20 – Installation of Polyphase GS < 50 kW Meters

On Bluewater Power's behalf, Util-Assist issued RFP BBP-440-10 to cover the installation of all polyphase GS<50 kW Smart Meters in our territory (approximately 1,800 meters). Factors such as customer communication, safety, pricing and installation service offerings were taken into account during the RFP. Three submissions were received from all three vendors invited to bid. After a thorough review, a decision was made to reject all of the proposals submitted and to install the polyphase meters with internal resources. The narrow scope of this project made it possible to complete the work with internal resources and the savings associated with carrying out the project internally were significant.

4(d) Response

The RFP was prepared by Util-Assist at no incremental cost to Bluewater Power and an evaluation committee of five staff was assembled for the review. There were three submissions reviewed and scored separately by the team members. Ultimately, the prices proposed in the three submissions were significantly over the anticipated budget and, therefore, we could not proceed. The decision not to proceed required three meetings and the estimated cost of those efforts was approximately \$2500 and has been included in the capital costs for which we are seeking recovery.

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e) P32 – Testing

In May of 2011, due to the required Measurement Canada solution changes that affected the Provincial MDM/R, Bluewater Power made the decision to halt our Unit Testing and discontinue redundant effort around testing issues that would be rectified after the anticipated new release from the IESO.

4(e) Response

Bluewater Power designed the interfaces with the MDM/R and the transaction of data exchange on the basis of the MDM/R R7.0 version. In the midst of that effort, the R7.2 version was announced with a timeframe that appeared compatible with our planned golive date. During the testing, issues were revealed that we expected would be resolved as part of the normal process of developing a technology solution within the 'Prescribed Testing' required by the MDM/R. Testing was halted and our effort was focused on designing changes for the release of the R7.2 version.

Testing was halted at a point where issues began to surface. The issues that surfaced were likely to be resolved with the newer xml R7.2 version. The testing that had taken place to that point in time had value, and benefitted our efforts when we later tested in R7.2. To be specific, the initial testing lasted 4 weeks and, in that time, we were able to complete 14 out of the recommended 44 test scenarios. These efforts later benefited the testing and implementation of R7.2 as we were not required to repeat those first 14 test scenarios when testing resumed in 2012.

With that background, the estimated cost of four weeks of testing was approximately \$80,000. That would consist of capitalized labour from five staff members devoting most of their effort for four weeks, as well as third party consulting costs of approximately \$40,000. These costs have been included in the capital costs for which we are seeking recovery.

5. Ref: Application p23 – AMI Annual Security Audit

An RFP for an AMI Network Security Audit was developed and executed by Util-Assist for several LDCs, including Bluewater Power. Please confirm that Bluewater Power's share of the Util-Assist's costs for this RFP was \$13,750.

The Application states that there are no costs relating to the security measures recommended following the audit conducted at PowerStream. Does Bluewater Power expect to propose costs related to the security audit recommendations in its 2013 cost of service application?

5 Response

Bluewater Power confirms the amount actually charged to the Smart Meter Deferral Account in relation to the security audit was \$12,272. At the time of agreeing to participate in the process, Bluewater Power's share of the costs was estimated to be \$13,750; however, additional LDCs joined the effort prior to its completion and Bluewater Power's share was reduced accordingly. The amount included in the application for recovery is the actual cost of \$12,272.

Bluewater Power will accommodate required security changes as part of its regular Information Technology capital budgets on a go forward basis. As such, portions of the recommendations of the security audit will be included in the 2013 cost of service application through capital projects increasing the value of Fixed Assets.

6. Ref: Application p25 - Beyond Minimum Functionality

Table 6.1 summarizes capital expenditures beyond minimum functionality. The Application states, "The total amount claimed in this application for recovery as Beyond Minimum Functionality is \$2.53M or \$71.49 per customer."

Please confirm that Bluewater Power is also seeking \$21,120 of OM&A costs beyond minimum functionality. Further, please confirm that the \$71.49 per customer of beyond minimum functionality reflects only the capital costs.

6 Response

Confirmed. As indicated in Table 2.1 on page 4 of the pre-filed evidence, the Capital Costs beyond minimum functionality are \$2.53M or \$71.49 per customer, and the OM&A beyond minimum functionality total \$21,120 or \$0.60 per customer. The total claimed for Capital Cost and OM&A for Beyond Minimum Functionality is, therefore, \$72.09 per customer.

7. Application p10 and p26 – Beyond Minimum Functionality

At p26, it states that the majority of beyond minimum functionality capital costs "fall under the category of MDM/R integration and relate to the integration of the MDM/R with Bluewater Power's SAP-based CIS."

At p10, Bluewater Power elected to do a partial cutover to the R7.0 MDM/R environment and then full migration to R7.2. Bluewater Power was approached by the

IESO to complete testing of the R7.2 environment as it one of only a few LDCs ready to function in R7.2.

What is the estimated cost of this testing, and where is this cost represented in Sheet 2 of the Smart Meter Model?

7 Response

The estimated cost of the testing for the R7.2 environment was \$10,497 and these costs are included in category 1.6.3 in the smart meter model. This amount includes only capitalized labour associated with testing. Due to the short time frame associated with the effort, almost one-third of the labour devoted to the effort was overtime.

We note that, although we were leaders in the development and testing of R7.2, we did not encounter any so-called "bugs" that affected our system. While there were issues raised as a result of our testing that impacted the IESO, those issues did not contribute to extra hours or cost for Bluewater Power

In closing, we note that the estimated cost provided in answer to this question is for testing only. These costs do not include the cost associated with the partial cut-over to R7.0 as we were required to gather historical data regardless of our implementation path. In addition, we have not included the development or programming costs associated with developing the solution to be tested.

8. Ref: Application, pp 25-28 – Software Costs

In Table 6.1 on p25, Bluewater Power documents about \$2.5M in software costs for MDM/R integration, TOU billing, web presentment, etc. This corresponds with "1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc." on row 105 of sheet 2 of the Smart Meter Model. Board staff observes that these costs of \$2.5M represent about 29% of total smart meter capital costs for which Bluewater Power is seeking recovery.

On pp 26-27, Bluewater Power states:

The majority of costs set out in Table 6.1 fall under the category of MDM/R Integration and relate to the integration of the MDM/R with Bluewater Power's SAP-based CIS. Bluewater Power implemented SAP Industry Solution Utilities in the year 2002 as the industry prepared for the deregulated electricity market. The system represents a substantial investment in an Enterprise Resource Planning ("ERP") solution. SAP serves to function as Bluewater Power's primary business software. The solution includes Finance, Supply Chain, Plant

Maintenance, Engineering, Metering, Customer Information, Billing, web presentment, retail and wholesale settlement functions in a completely integrated solution.

In 2008, Bluewater Power engaged SJH consulting to perform an upgrade assessment. This assessment looked at the need to upgrade SAP in order to move to an updated software solution utilizing new functionality and having the ability to accommodate the pending Smart Meter Initiative. The facts considered at the time pointed to the need to upgrade from ERP Version 4.7 Enterprise to Version 6.0 EhP 4 of SAP. The version of SAP that Bluewater Power was operating on at the time was entering into a period of 'Extended Support Coverage' and was less than 2 years away from no longer being supported by SAP. In addition, the upgrade addressed a number of limitations in the existing system that improved functionality and, in some cases, better prepared the CIS for the introduction of smart meters. Finally, given the timeline in place to implement the smart metering initiative at Bluewater Power, it was necessary for the SAP upgrade to occur prior to that required effort.

The upgrade to ERP Version 6.0 EhP 4 is an example of the kind of "normal budget for maintenance" of Bluewater Power's CIS. The costs related to this upgrade are not included for recovery in this Smart Meter Final Disposition. Likewise, Bluewater Power engaged in an upgrade of SAP to accommodate the move to International Financial Reporting Standards (IFRS) in the year 2009. Those costs are also not included for recovery in this application, just like other routine upgrades and modifications to SAP continue to form part of Bluewater Power's normal maintenance of its CIS.

On p28, Bluewater continues:

These costs are considered "required" for Smart Meters because the SAP billing system that Bluewater Power operates was not inherently capable of billing TOU pricing. SAP's utility offering is an Enterprise Resource Planning solution. It is not an "off the shelf" product, but its design is end-user driven. Prior to the commencement of Phase 2 Smart Meter Project, the system was not configured for integration with the MDM/R or for producing a TOU bill. It is clear that "but for" the requirements of the Smart Metering Initiative, none of the costs for which we are seeking recovery in this application would have been incurred.

When Bluewater Power did its SAP upgrade in 2008-2009, the requirements for TOU billing were better defined.

a) Please clarify the statements on p28 that the SAP ERP was not inherently capable of MDM/R integration and TOU billing with the statements on pp 26-27 that the earlier upgrade "improved functionality and, in some cases, better prepared the CIS for the introduction of smart meters."

8(a) Response

In order to understand that statement in our evidence, the Board must understand that SAP is a platform on which a billing system can be built. SAP provides the base upon which the end user (the utility) configures the system to match their business processes, their data configuration, desired flow of information and the bill format required. SAP is not like other "off the shelf" billing systems that are developed by a software company based on a particular business process and customized for the Ontario market. The SAP offering

provides a world-class system on which any type of billing system can be configured; the configuration itself is carried out by the end user, typically using SAP certified consultants that work independent of SAP (consultants work for companies like Deloitte Consulting or HCL Axon).

It is also important to remember that SAP is an Enterprise Resource Planning ("ERP") tool that provides Bluewater Power with its billing, settlement, finance, work order management, inventory, etc. It is the billing portion of Bluewater Power's system that requires reconfiguration when changes to billing processes are introduced to our market, but when SAP upgrades its product that upgrade affects the entire ERP.

At the risk of trivializing the complexity and offerings of the billing portion of the SAP software, SAP can be likened to Microsoft Excel for illustrative purposes. The software on its own is capable of organizing data and carrying out transactions. However, just as the OEB had to build configuration within Excel to prepare the Smart Meter Model on which this application was filed, Bluewater Power must configure SAP to bill in a manner consistent with our business processes and the Ontario market. When an upgrade occurs in SAP (much like an upgrade in Excel) additional functionality is added to the software. That upgrade imbeds in the software functionality that would otherwise require custom configuration or the upgrade, at least, simplifies the process of carrying out the customization.

In the case of the upgrade of SAP that took place in 2010, the following functionality was introduced that better facilitated the integration of Smart Meters and the development of TOU pricing:

- 1. Complex billing was made easier in ERP 6.0 with changes to the SAP base code which enabled the more complex TOU billing buckets to be handled with less custom configuration. It is important to note that using custom developed code is costlier during an implementation and costlier to maintain going forward in regular maintenance and in future upgrades.
- 2. The requirement to integrate with the MDM/R was made easier because ERP 6.0 is capable of handling multiple unique identifiers associated with each customer. More specifically, it is better able to handle the USDPs, SDP, AMI numbers, and Meter numbers and their relationships such that proper synchronization can occur between the AMI system, the MDM/R, and SAP.
- 3. The upgrade included the implementation of SAP PI. This so-called "middleware" translates the data from SAP to data that is able to be read by the MDM/R and the AMI system (Sensus, Flexnet). Conversely, data that flows from these systems back into SAP is translated by SAP PI such that SAP is able to read or understand the data.

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- 4. The upgrade to SAP ERP 6.0 included the Netweaver Stack that was not previously available. This was a critical component necessary in order for BWP to develop customer facing products such as web presentment.
- b) Why did Bluewater Power not upgrade its SAP system to be capable of smart meters and TOU billing when it did its upgrade in 2009?

8(b) Response

The answer provided above to IR# 8(a) provides the background to understand that there was no option to wait for a version of SAP that was capable of integrating with smart meters and carrying out TOU billing in Ontario.

The question that might then follow is "Should Bluewater Power have carried out the upgrade to SAP and the custom configuration required for the integration of Smart Meters at the same time?" The answer to that question is that both projects were of sufficient magnitude that a phased approach was necessary. For a utility the size of Bluewater Power, the same personnel would have been involved in each project making it impractical to carry out simultaneous projects. Moreover, it does not automatically follow that the cost of a simultaneous upgrade and Smart Meter implementation would be lower given the possibility of delays on one project impacting the cost of the other. As we saw with the IESO's upgrade from R7.0 to R7.2 delays proved to be commonplace and significant.

c) Are there any capabilities or functionality of the CIS/billing system upgrade which are used to service customers other than residential and GS < 50 kW customers? If so, please identify these and provide Bluewater Power's rationale for the costs of the CIS/billing system upgrade to be borne solely by smart metered residential and GS < 50 kW customers.

8(c) Response

There were no changes included in the smart meter implementation that applied to customers other than residential and GS < 50 customers.

9. Ref: Application p37 – Smart Meter Costs

The Application seeks approval of recovery of all costs for the period 2006 to 2012, net of the funding adder, through an SMDR. Table 7.1 on p37 indicates that 89% of the costs requested for disposition have been audited, which is below the suggested 90% threshold.

a) Please provide actual YTD capital costs to June 2012. If June 2012 costs are not available, please provide the most recent data available.

9(a) Response

The YTD June 2012 capital costs are \$700,664. With those costs, the entire project actual capital costs as of the end of June 2012 are \$8,459,665.

b) Please provide actual YTD OM&A costs to June 2012. If June 2012 costs are not available, please provide the most recent data available.

9(b) Response

The YTD June 2012 OM&A costs are \$125,486. With those costs, the entire project actual OM&A as of the end of June 2012 are \$588,949.

10. Ref: Application p21 and p41 – 2012 IRM Rate Application

There is a variance of (\$1,304,597) in smart meter costs between the 2012 IRM rate application, filed on October 4, 2011 and this Application. Bluewater Power states that one of the contributing factors was cost containment related to installing GS < 50 kW meters with internal resources. At p21 of the Application, it indicates that this work was completed in November 2011.

Please explain why the 2012 IRM application overstated the expenses by \$230,000 for work which was nearing completion.

10 Response

The focus of our attention at the time of filing the updated budget for informational purposes within the 2012 IRM application was on the delays at the IESO and the extended timeline of our implementation. Subsequent to the 2012 IRM application Bluewater Power was able to document the savings it had captured through the decision to install certain meters with internal resources.

11.Ref: Application p5 and p44 – Cost Allocation and Class-specific SMDRs

At p5 of the application, Bluewater Power confirms that it has not deployed smart meters to classes other than residential and small commercial (i.e. GS < 50 kW). At

p44 of the application, it states that the SMFA was a uniform rate amongst all metered customers.

Allocating revenue and interest from other classes 50:50 to the residential and GS < 50 kW classes is an approach approved in recent smart meter decisions, and documented in section 3.5 of *Guideline G-2011-0001: Smart Meter Funding and Cost Recovery – Final Disposition* ("Guideline G-2011-0001"), issued December 15, 2011.

a) How has Bluewater Power allocated the SMFA revenues from the GS 50 kW to 999 kW, GS 1,000 kW to 4,999 kW, and large use customer classes for calculating the class-specific SMDRs for the residential and GS < 50 kW classes?

11(a) Response

Bluewater Power did not track the SMFA revenues by rate class when collected; in order to allocate the revenues received, we used the number of meters installed as a proxy. Therefore, we allocated 90.1% of the SMFA revenue to the residential rate class and 9.9% of the SMFA revenue to the GS<50 rate class.

We estimated that approximately \$20,000 of the approximately \$1.8M of SMFA revenue (including interest) was collected from the rate classes other than residential and GS<50. We note that in other interrogatory responses we were requested to allocate revenue 50/50 between the residential and GS<50 rate classes when determining the SMDR, but the original evidence was filed assuming the allocator based on the number of meters (90.1% to residential and 9.9% to GS<50).

b) Using the attached spreadsheet taken from Guelph Hydro's draft Rate Order filing, please provide calculations for class-specific SMDRs using a more direct allocation of SMFA revenues. This should also reflect any and all revisions to Smart Meter Model, Version 2.21 made as a result of Bluewater Power's responses to interrogatories.

11(b) Response

The completed spreadsheet is attached as Appendix 1. There are three items incorporated into the attached spreadsheet that vary from the information contained in Bluewater Power's original submission as follows:

- 1. We have updated the number of customers to reflect the 2103 forecast (per response to OEB #20(b)).
- 2. We have allocated the SMFA revenue collected from rate classes other than residential and GS<50, based on a 50/50 allocation.

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3. As per Board Staff IR#19(a), Bluewater Power calculated the interest on the OM&A using a monthly methodology rather than an annual methodology

12.Ref: Application p4, Appendix 2 and Smart Meter Model, Sheet 2 – OM&A Expenses

Bluewater Power seeks approval of foregone revenue requirement related to smart meter deployment from 2006 to present. Appendix 2 of the application is a copy of a May 30, 2008 letter from the Fairness Commission, indicating compliance with the London Hydro RFP process.

- a) Bluewater Power lists capital (\$172 in 2006 and \$1,316 in 2007) and OM&A (\$13,439 in 2006 and \$25,755 in 2007) expenses prior to 2008 in Sheet 2 of the model.
 - i) Please explain the nature of the work done for these expensed costs incurred prior to Bluewater Power becoming authorized and commencing its smart meter deployment.

12(a)(i) Response

Capital costs in 2006 and 2007 were associated with labour for research and educational purposes.

OM&A costs in the years 2006 and 2007 were primarily associated with data collection fees paid to Olameter (\$7,214), membership fees to Util-Assist on account of the OUSM Working Group (\$11,321), and travel/labour included in OEB category 2.5.3 (\$14,796).

 Please explain whether or not these costs were necessary for and integral to the implementation of Bluewater Power's smart meter program and do not replace operating expenses for legacy distribution operations whose costs are reflected in Bluewater Power's normal revenue requirement and recoverable through base distribution rates.

12(a)(ii) Response

Membership in the OUSM Working Group allowed Bluewater Power to gain benefit from the experience of Util-Assist and the other utilities with whom Util-Assist had worked. A utility the size of Bluewater Power is not able to have subject experts in all areas and we found it extremely valuable to gain that expertise through associations like OUSM.

The fees paid to Olameter for data reading allowed Bluewater Power access to real-life data to enhance our understanding of systems and to gain practical experience dealing with Smart Meter data. The dollars attributable to the Olameter costs are nominal and justified relative to the experience that was gained. These costs were classified internally as research costs, and when we were required to classify the costs within the OEB cost categories, they were placed in the AMCD category as they were research costs related to the AMCD.

- b) Under section 2.1.2, Other (row 116 of sheet 2), Bluewater Power lists OM&A expenses labelled as "ODS Fees" with \$1,935 for 2006, \$6,112 for 2007, \$4,497 for 2008 and \$4,727 for 2009. These expenses then increase to \$16,584 for 2010, \$40,456 for 2011 and decrease to \$22,067 for 2012.
 - i) What are the ODS Fees for during the period from 2006 to 2009?

12(b)(i) Response

ODS Fees for the period of 2006 through 2009 consist of meter data collection fees paid in respect of iTron and Elster meters installed originally as part of the Watford pilot. Although there are no costs included in this application for the original deployment of the Watford Smart Meter pilot study, the availability of data was determined to have value after the pilot ended and the costs were recorded to the smart meter deferral account as research.

ii) What is the reason for the increased fees in 2010 and 2011?

12(b)(ii) Response

The increased OM&A in 2010 relates to broken meter encountered during the installation of smart meters; the OEB directed utilities to record costs associated with the material to replace broken meter bases as OM&A. The cost recorded to OM&A in respect of broken meter bases in 2010 was \$12,710.

The increase in 2011 was due to the completion of Bluewater Power's ODS, which necessitated ODS fees being paid as of February 2011. It is also worth noting that the year 2012 only consists of four months of ODS fees; after that date meter readers were removed

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from the Distribution Company, and the ODS fees became the replacement cost for meter readers as those costs were determined to be baked into base rates. Accordingly, ODS fees became part of Bluewater Power's regular OM&A expenses as of May 2012.

iii) Are these costs one-time or recurring? In particular, is the 2012 forecasted cost of \$22,087 a reasonable estimate of recurring ODS fees?

12(b)(iii) Response

ODS fees are recurring monthly per meter costs. The costs claimed in 2012 are for the first four months only as the costs were moved to regular OM&A expense accounts in May 2012 outside of the smart meter deferral account. The costs included in the model as-filed with the application are actual costs for January to March 2012, and a one month estimate for April 2012.

- c) Under section 2.5.3, Program Management (row 152 of sheet 2), Bluewater Power lists costs of \$2,151 for 2006, \$14,796 for 2007, \$16,322 for 2008, \$6,583 for 2009, (\$1,590) for 2010 and \$nil for 2011-2013.
 - i) Given that Bluewater Power commenced smart meter deployment in 2010, please explain why the majority of the costs were incurred prior to then.

12(c)(i) Response

The years 2006 through 2008, prior to smart meter deployment, were spent educating ourselves through smart meter conferences, vendor exhibits, utility visits, as well as participation in the London Hydro RFQ for Smart Meters. In 2009, we developed a smart meter team representing personnel from all affected departments within our LDC.

These costs were incurred prior to deployment in 2010 because they were costs related to research to prepare for the launch on Smart Meters. We interpreted the Program Management bucket as the appropriate depository for costs related to research, so it follows that the research related costs would be complete by the time this utility began its deployment.

ii) Please explain the negative cost entry of (\$1,590) for 2010.

12(c)(ii) Response

OM&A costs were re-allocated from category 2.5.3 to category 1.5.6 as they were determined, upon review in 2010, to be capital in nature. Given that reallocation was the only entry for that category for the year 2010, a negative balance of \$1,590 resulted.

13.Ref: Application p37 and Smart Meter Model, Sheet 2 – Capital Expenses

On row 107 of Sheet 2, Bluewater Power forecasts capital costs beyond minimum functionality of \$557,785 in 2012. The note indicates the asset type is computer software related to TOU implementation, CIS upgrades, web presentment, integration with the MDM/R, etc.

a) Please provide further explanation of the \$557,785 of capitalized software costs forecast for 2012.

13(a) Response

For purposes of the smart meter model filed with this application, the column heading '2012 Forecast' represents a combination of actual costs until March 31, 2012, with the remainder of the year being forecast amounts.

Therefore, of the \$557,785 of capitalized software costs, \$422,010 was actual costs from January to March 2012 associated with integration and testing, web presentment and Time of Use preparation. These costs would be for consultants as well as the capitalization of internal labour.

The remaining amount of \$135,775 is the forecast cost covering the period from April 2012 until the end of year related to consultants as well as the capitalization of internal labour to complete web presentment and TOU implementation.

b) Please also document what portion of these forecasted costs have been incurred to date.

13(b) Response

As detailed in response to 13(a), \$135,775 is the forecasted cost included for recovery. The amount spent in the three months ending June 2012 is \$12,590.

14. Ref: Application p39 and Smart Meter Model, Sheet 2 – OM&A Expenses

Please provide further description and justification by category of the OM&A expenses that Bluewater Power is seeking to recover. For each category please respond to the following questions.

a) Are any of the expenses internal (i.e. done by Bluewater Power staff)?

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14(a) Response

- 2.1.2: OM&A AMCD
 - No internal expenses
- 2.2.2: OM&A AMRC
 - No internal expenses
- 2.3.2: OM&A Software Maintenance • No internal expenses
- 2.5.1: OM&A Business Process Redesign • \$13,169 for internal labour
- 2.5.2: OM&A Customer Communication •\$4,180 for internal labour
- 2.5.3: OM&A Program Management • \$28,958 for internal labour
- 2.5.4: OM&A Change Management • \$41,038 for internal labour
- 2.5.5: OM&A Administration Costs
 No internal expenses, but contract positions hired at a cost of \$156,409.
 - b) Please describe how Bluewater Power determined that each category of costs is fully incremental.

14(b) Response

There are internal labour costs included for recovery in categories 2.5.1, 2.5.2, 2.5.3 and 2.5.4 as OM&A, but those costs could have otherwise been recorded as capitalized labour. At the time that the costs were recorded to the OM&A accounts of the smart meter deferral, the costs were determined not to be tied directly to any one capital asset. The effort expended was more broadly intended for the development of the Smart Meter program and the costs were not recorded as capitalized labour. An argument could have been made for the recovery of these costs as capitalized labour, but instead the costs were recorded as OM&A to be recovered as part of the smart meter project.

The smart meter implementation was the most significant capital project that Bluewater Power has undertaken in its history. The time represented by these internal labour costs of

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\$86,310 (not including the \$1035 and \$156,409 explained below) are included for recovery as OM&A to represent the incremental effort expended by staff that was not otherwise recorded as capitalized labour. The time expended by staff would have otherwise been spent on (i) normal utility operations or (ii) capitalized to other capital projects. The "normal" utility work cannot be delayed, so it is likely that the extra effort of \$86,310 would have otherwise been dedicated to other capital projects. Therefore, the costs are incremental to the extent they represent an opportunity cost because the labour would have, otherwise, been capitalized to a non-smart meter project.

There are two internal costs included for recovery that are clearly fully incremental:

- Approximately \$1035 of cost in category 2.5.2 related to employee costs allocated from affiliates to the distribution company in order for that employee to assist in the customer communication effort; these costs would not have otherwise been incurred but for the smart meter initiative and were therefore fully incremental in nature.
- All of the internal costs of \$156,409 included in category 2.5.5 relate to the three temporary contract Customer Service Representatives hired as back-fill and to accommodate the increase in call volume during meter rollout and implementation of TOU pricing. These costs would not have otherwise been incurred but for the smart meter initiative and were therefore fully incremental in nature
- c) Are there costs that Bluewater Power no longer incurs as a result of now transmitting customer usage data from smart meters over communications lines?

14(c) Response

Bluewater Power no longer incurs the cost of manual meter reading, however Bluewater Power's meter reading costs have increased by approximately \$32,000 as a result of the switch from manual metering to transmitting customer usage data from smart meters over communications lines. While the annual cost of manual meter reading for residential and GS<50 was approximately \$110,000, the annual cost of, instead, transmitting that customer usage data from smart meters over communications lines is approximately \$142,647.

15.Ref: Application p39-40 and Smart Meter Model, Sheet 2 – OM&A Expenses

a) Under section 2.2.2 of Sheet 2, Bluewater Power lists Network Fees of \$29,633 in 2010, \$49,134 in 2011 and \$21,563 in 2012. Please explain the nature of these fees. Please explain the higher fees in 2011.

15(a) Response

Network fees consist of monthly per meter data collection fees from our AMI vendor. These charges began to be incurred in June 2010; therefore, there are only 6 months accounted for in 2010. In the year 2011, there are twelve months accounted for. As of May 2012, the

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fees were moved to the distribution company's regular OM&A expense accounts (i.e. not recorded to the smart meter deferral account) because they were determined to be replacement costs for manual meter reading costs already embedded in base rates; therefore, only four months of the expense were accounted for in the Smart Meter costs for 2012.

b) Under section 2.5.5, Bluewater Power lists Administration Costs of \$104,826 in 2011 and \$107,072 in 2012. Please explain the nature of these administration costs. Are they forecast to continue?

15(b) Response

Administration Costs consists of the following items:

- Supplies (\$1762 in 2011 and \$7544 in 2012)
- Modular office space was required to accommodate staff and consultants for the project, and those rental costs are recorded to this account (\$41,431 in 2011 and \$13,267 in 2012)
- Additional customer service personnel were required as back-fill and to accommodate the increase in call volume during meter rollout and implementation of TOU pricing (\$64,438 in 2011 and \$91,971 in 2012).

None of these costs are forecast to continue beyond 2012.

c) The bulleted list on p40 indicates \$72,000 of expenses related to membership fees, training, conferences and research. Please quantify the membership fees and explain the nature of the membership fees and how they are necessary and prudent with respect to Bluewater Power's smart meter program.

15(c) Response

Membership fees equate to just over \$11,000 for the years of 2006 and 2007. Membership fees were paid to Util-Assist for membership in the OUSM Working Group.

The Ontario Utilities Smart Meter (OUSM) working group, whose members had the common goal of developing an in-depth understanding of the Smart Metering Initiative provided resources such as access to information regarding strategic pilots, test protocols developed by other utilities already completed implementation, RFP document development, etc. Focus was placed on technology, back office integration, change management, and data presentment back to the consumer. The OUSM group facilitated the involvement of third party integration companies for meter installation, ongoing operation of smart meter networks, and meter asset ownership models.

To ensure value was realized, it was critical that the strategy followed was one that considered all operational aspects of the available AMI technologies. As a result of collaborating with Util-Assist and the other utilities that were members of the OUSM we were able to be better prepared to implement Smart Meters in a cost effective manner. In Bluewater Power's view the cost of membership was minimal relative to the value of the experience gained.

16. Ref: Smart Meter Model, Sheet 3 - Taxes/PILs Rates

Bluewater Power has used the maximum taxes/PILs rates input on sheet 3, row 40, for the years 2006, 2007, 2008, 2009, 2010, 2011, 2012 and 2013 and beyond. These are summarized in the following table:

| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Aggregate Federal and provincial income tax rate | 36.12% | 36.12% | 33.50% | 33.00% | 31.00% | 28.25% | 26.25% | 25.50% |

Please confirm that these are the tax rates corresponding to the taxes or PILs actually paid by Bluewater Power in each of the historical years, and that Bluewater Power forecasts it will pay for 2012 and 2013. In the alternative, please explain the tax rates shown and their derivation.

16 Response

Bluewater Power confirms that the tax rates set out above correspond to the rates used to determine the PILs paid in each of the historical years and the rates that are forecasted for 2012 and 2013.

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17.Ref: Smart Meter Model, Sheet 3 – CCA Rates

a) Please explain why Bluewater Power has applied CCA class 8 for smart meters instead of CCA class 47. What CCA class is used for legacy conventional meters?

17(a) Response

Bluewater Power used CCA class 8 in the Smart Meter Model because that is the same class used in Bluewater Power's tax return for smart meters. Bluewater Power felt that the resulting PILS embedded in rates paid by electricity ratepayers should correlate to the actual amount of PILS paid through its tax return. That classification was set in consultation with our external tax advisors and incorporated in previously filed tax returns.

We confirm that CCA class 47 was used for legacy conventional meters starting in 2005. Prior to this, CCA class 2 was used.

b) Please explain why Bluewater Power has applied CCA class 46 for computer equipment instead of CCA class 45

17(b) Response

Bluewater Power used CCA class 46 in the Smart Meter Model because this is the same class used in Bluewater Power's tax return for computer equipment. Bluewater Power felt that the resulting PILS embedded in rates paid by electricity ratepayers should correlate to the actual amount of PILS paid through its tax return. That classification was set in consultation with our external tax advisors and incorporated in previously filed tax returns.

18. Ref: Smart Meter Model, Sheet 8 SMFA Revenues

On sheet 8 of the Smart Meter Model, Bluewater Power has input SMFA revenues for May and June 2012. Please explain these entries as the SMFA ceased on April 30, 2012 in accordance with the Board's decisions of its 2011 and 2012 IRM rates applications.

18 Response

Although the rate rider ceased on April 30, 2012, Bluewater Power continued to collect SMFA revenue amounts after May 1, 2012 for amounts related to billing periods prior to May 1, 2012.

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19.Ref: Smart Meter Model – Interest on OM&A and Depreciation Expenses

In the Smart Meter Model Version 2.21 filed by Bluewater Power, the utility has relied upon sheet 8B to calculate the interest on OM&A and depreciation/amortization expenses. Sheet 8B calculates the interest based on the average annual balance of deferred OM&A and depreciation/amortization expenses based on the annual amounts input elsewhere in the model.

For LDCs that have the appropriate data, the more accurate and preferred method for calculating the interest on OM&A and depreciation/amortization expense is to input the monthly amounts from the sub-account details of Account 1556, using sheet 8A of the model. This approach is analogous to the calculation of interest on SMFA revenues on sheet 8 of the model.

 a) Please re-file the smart meter model using the monthly OM&A and depreciation/amortization expense data from Account 1556 records. Bluewater Power should also take into account any revisions necessary as a result of its responses to any preceding interrogatories.

19(a) Response

The updated model is attached as Appendix 2, which includes the requested changes. The model includes the following updates:

- 1. We have updated the number of customers to reflect the 2103 forecast (per response to OEB #20(b)).
- 2. We have allocated the SMFA revenue collected from rate classes other than residential and GS<50, based on a 50/50 allocation.
- 3. As per above Board Staff IR#19(a), Bluewater Power calculated the interest on the OM&A using a monthly methodology rather than annual.
- b) If this is not possible, please explain.

19(b) Response

Not applicable. See 19(a).

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20.Ref: Smart Meter Model, Sheet 2 and Sheet 9

Bluewater Power notes that it has installed a total of 35,401 smart meters. Sheet 9 of the smart meter model calculates the SMDR for the number of metered customers – average for 2013 test year.

 a) Please confirm that the entry of 35,401 is Bluewater Power's current estimate of the average number of smart metered residential and GS < 50 kW customers for the year 2013.

20(a) Response

Not confirmed. The entry of 35,401 is the number of meters installed as of March 31, 2012, not the estimate of the average number of smart metered customers for the year 2013.

b) In the alternative please provide Bluewater Power's estimate of the average number of residential and GS < 50 kW customers for the period from November 1, 2012 (i.e., the effective date of the SMDR) to December 31, 2013.

20(b) Response

The average customer count for the 2013 forecast number of residential and GS<50 customers is 35,666.

21. Ref: Board Guideline G-2011-0001, Application p29

P19 of the Guideline G-2011-0001, 2011 states that, "In considering the recovery of smart meter costs, the Board also expects that a distributor will provide evidence on any operational efficiencies and cost savings that result from smart meter implementation." Please provide a summary of any operational efficiencies and costs savings relating to the implementation of smart meters to date realized or expected by Bluewater Power.

21 Response

This question is answered, in part, through the answer to OEB Staff IR#14(c) above. There are no net savings in meter reading costs; there is a net increase in metering reading costs. The annual cost of automated reads is approximately \$30,000 more than the annual cost of foot reading meters for the residential and GS<50 customers.

We note, again, that we recorded AMI related OM&A up to the end of April 2012. After May 1, 2012 those costs were not recorded to the Smart Meter Deferral Accounts, but became normal operating costs of the utility as they replaced the costs saved with the elimination of

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meter readers. Put another way, Bluewater Power is absorbing the increased meter reading costs associated with Smart Meters as of May 1, 2012, with the expectation that the increased costs of reading Smart Meters will be accounted for upon rebasing.

There are no other operational efficiencies or costs savings associated with the implementation for smart meters.

22. Ref: Application p2 - Stranded Meters

In the application, Bluewater Power proposes that stranded meters continue to be included in rate base. Bluewater Power will seek recovery of stranded meter costs in its 2013 cost of service application.

Please provide the estimated NBV of stranded conventional meters as of December 31, 2012, disaggregated by Residential and GS < 50 kW customer classes.

22 Response

The estimated NBV for the Residential customer class is \$1,735,945. The estimated NBV for the GS<50 kW customer class is \$161,118. Both amounts are stated as of December 31, 2012.

Responses to VECC Interrogatories

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Bluewater Power Distribution Corporation 2012 Smart Meter Cost Recovery EB-2012-0263 Responses to VECC Interrogatories

VECC Question # 1

Reference 1: Application, Page 5, Page 25

"The capital and OM&A costs included for recovery for Minimum Functionality are \$6.7M or \$188.92 per customer (see Section 5.0 of this Application). There is no published average for Minimum Functionality costs only, and there are only 14

applications that have been filed for final disposition in the last six months for comparison purposes. Based on that relatively small sample, the average claim for Minimum Functionality is \$194.93 per customer."

"The total capital and OM&A costs included for recovery for Beyond Minimum Functionality costs is \$2.55M or \$72.09 per customer (see Section 6.0 of this Application). There is no published average for Beyond Minimum Functionality costs only, and there are only 14 applications that have been filed for final disposition in the last six months. Based on that relatively small sample, the average claim is approximately \$11.84 per customer."

Reference 2: Application, Page 25

The total amount claimed in this application for recovery as Beyond Minimum Functionality is 2.53M or 71.49 per customer. There is no published average for Beyond Minimum

Functionality, and there are only 14 applications for Smart Meter cost recovery that have been filed todate in 2012. The footnotes list the applications.

a) Please provide the underlying data and analysis that was used to derive the above average costs calculated by Bluewater Power based on data from the 14 applications.

1(a) Response

The data for the analysis was sourced from the original Smart Meter Models filed by each of the listed LDCs as found on the OEB website. The cost per customer was determined for each application and the average for all applications was determined on a non-weighted basis. Table 1.1 details the costs defined as 'Minimum Functionality', and Table 1.2 details the costs defined as 'Beyond Minimum Functionality' within each LDC's smart meter model.

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| | | | | Minimum Fu | unctionality | |
|---------------------|--------------|------------------------|------------------|-------------|--|----------------------|
| | File Number | Number of Customers | Capital Costs | OM&A | Total Minimum Functionality Costs | Cost per Customer |
| Collus | EB-2012-0017 | 16,000 | \$2,574,422 | \$350,000 | \$2,924,422 | \$182.78 |
| Horizon | EB-2011-0417 | 230,713 | \$25,859,794 | \$5,736,698 | \$31,596,492 | \$136.95 |
| Innisfil | EB-2011-0435 | 14,721 | \$2,151,270 | \$283,733 | \$2,435,003 | \$165.41 |
| Lakeland | EB-2011-0413 | 9,620 | \$2,170,637 | \$213,779 | \$2,384,416 | \$247.86 |
| Midland | EB-2011-0434 | 6,828 | \$1,241,267 | \$200,930 | \$1,442,196 | \$211.22 |
| Niagara on the Lake | EB-2012-0036 | 8,050 | \$1,619,172 | \$119,558 | \$1,738,729 | \$215.99 |
| Orangeville | EB-2012-0039 | 11,105 | \$1,863,162 | \$150,797 | \$2,013,959 | \$181.36 |
| Peterborough | EB-2012-0008 | 34,967 | \$5,535,936 | \$172,347 | \$5,708,283 | \$163.25 |
| Thunder Bay | EB_2012-0015 | 49,440 | \$8,157,370 | \$1,899,825 | \$10,057,195 | \$203.42 |
| Welland | EB-2011-0415 | 21,520 | \$3,037,636 | \$520,817 | \$3,558,453 | \$165.36 |
| London | EB-2012-0187 | 146,850 | \$21,723,929 | \$1,450,459 | \$23,174,388 | \$157.81 |
| Cambridge | EB-2012-0086 | 50,709 | \$8,177,996 | \$1,283,726 | \$9,461,722 | \$186.59 |
| Oakville | EB-2012-0193 | 63,734 | \$10,103,247 | \$1,327,688 | \$11,430,935 | \$179.35 |
| Sioux Lookout | EB-2012-0245 | 2,675 | \$715,162 | \$172,135 | \$887,297 | \$331.70 |
| AVERAGE | | | | | | \$194.93 |
| | | | | | | |
| Bluewater Power | EB-2012-0263 | 35,401 | \$6,053,314 | \$634,751 | \$6,688,064 | \$188.92 |

Table 1.1 – Minimum Functionality Costs per Customer

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| | | | Beyond Minimum Functionality | | | | |
|---------------------|--------------|------------------------|------------------------------|-----------|---|----------------------|--|
| | File Number | Number of Customers | Capital | OM&A | Total Costs Beyond Minimum Functionality | Cost per Customer | |
| Collus | EB-2012-0017 | 16,000 | \$0 | \$0 | \$0 | \$0.00 | |
| Horizon | EB-2011-0417 | 230,713 | \$1,483,555 | \$405,098 | \$1,888,653 | \$8.19 | |
| Innisfil | EB-2011-0435 | 14,721 | \$43,544 | \$179,992 | \$223,536 | \$15.18 | |
| Lakeland | EB-2011-0413 | 9,620 | \$116,542 | \$57,026 | \$173,568 | \$18.04 | |
| Midland | EB-2011-0434 | 6,828 | \$62,139 | \$9,704 | \$71,843 | \$10.52 | |
| Niagara on the Lake | EB-2012-0036 | 8,050 | \$268,479 | \$45,733 | \$314,211 | \$39.03 | |
| Orangeville | EB-2012-0039 | 11,105 | \$100,629 | \$122,775 | \$223,404 | \$20.12 | |
| Peterborough | EB-2012-0008 | 34,967 | \$0 | \$0 | \$0 | \$0.00 | |
| Thunder Bay | EB_2012-0015 | 49,440 | \$0 | \$0 | \$0 | \$0.00 | |
| Welland | EB-2011-0415 | 21,520 | \$0 | \$0 | \$0 | \$0.00 | |
| London | EB-2012-0187 | 146,850 | \$3,190,874 | \$102,252 | \$3,293,126 | \$22.43 | |
| Cambridge | EB-2012-0086 | 50,709 | \$0 | \$0 | \$0 | \$0.00 | |
| Oakville | EB-2012-0193 | 63,734 | \$227,905 | \$363,660 | \$591,565 | \$9.28 | |
| Sioux Lookout | EB-2012-0245 | 2,675 | \$13,088 | \$16,671 | \$29,759 | \$11.12 | |
| AVERAGE | | | | | | \$11.84 | |
| | | | | | | | |
| Bluewater Power | EB-2012-0263 | 35,401 | \$2,530,673 | \$21,120 | \$2,551,793 | \$72.08 | |

Table 1.2 – Beyond Minimum Functionality Costs per Customer

This data has been provided as requested. However, we would like to reassert the caveats contained in our application regarding the use of the data. The summary data was provided in the pre-filed evidence with two important cautions as follows:

- (1) The average represents a sample of only fourteen distributors. That is a relatively small sample and therefore easily skewed if the sample is not representative of all licensed distributors in Ontario.
- (2) Costs filed for recovery as "Beyond Minimum Functionality" must meet the test of being <u>required</u> for the smart meter program and <u>incremental</u> to normal spending on a utility's CIS. In Bluewater Power's respectful submission every LDC will have necessarily incurred costs that could have properly been characterized as "Beyond Minimum Functionality"; yet four of the LDCs in Table 1.2 have claimed \$0 in "Beyond Minimum Functionality" costs. It appears to Bluewater Power that LDCs to-date have disparate interpretations of the test required to seek recovery of costs through this

application. In addition, some LDCs with lesser costs may have chosen not to seek recovery of any "Beyond Minimum Functionality" costs in advance of rebasing.

Accordingly the data was provided for context but, in Bluewater Power's submission, that context is most helpful if the Board and Intervenors are mindful of the limits of the data. The comparisons do not compare the amount actually <u>spent</u> by LDCs on "Beyond Minimum Functionality" but more accurately represents a comparison of the "Beyond Minimum Functionality" costs <u>claimed</u> for recovery through this particular process (ie. Smart Meter Final Disposition as opposed to a Rebasing Application).

VECC Question # 2

Reference: Application, Page 10, 3.0 Smart Meter Program Status <u>Preamble:</u> In Table 3.1, Bluewater Power provides a summary of the smart meters installed by year.

a) Please summarize the types of meters installed for each rate class.

2(a) Response

| Meter Type | Description | Rate Category Applicable |
|-------------------|--|--------------------------|
| Single phase - 2S | 1 phase 3 wire 1.5 element self-contained meters | Residential, GS<50 |
| Single phase - 3S | 1 phase 2 wire 1 element transformer rated meters | Residential |
| Single phase - 1S | 1 phase 2 wire 1 element self-contained meters | Residential |
| Remote disconnect | 1 phase 3 wire 1.5 element self-contained meters with remote disconnect relay | Residential |
| Network | 3 phase 3 wire 2 element self-contained meters | Residential |
| Polyphase | 3 phase 3 and 4 wire 2,2.5 and 3 element transformer and self-contained meters | Residential, GS<50 |

Table 2.1 – Type of Meters by Rate Class

b) Please complete the following table to show the calculation of average costs based on individual meter types.

| Class | Туре | Quantity | Meter | Average | Installation | Average | Other | Total |
|-------------|-------|----------|-------|---------|--------------|--------------|-------|---------|
| | of | - | Cost | Meter | Cost | Installation | Costs | Average |
| | Meter | | | Cost | | Cost | | Cost |
| Residential | | | | | | | | |
| | | | | | | | | |
| GS<50 kW | | | | | | | | |
| | | | | | | | | |

2(b) Response

Table 2.2 is provided below to detail the average costs based on meter type in the format requested by the interrogatory. We note that two issues require elaboration to explain the data provided.

First, the cost of installation for the GS<50 meters includes \$67,091in costs under the heading of 'Other'. This represents the installed costs for conversion bases required for some of the installations encountered. Bluewater Power did not track the costs for conversion bases by the type of meter. Therefore, the costs are added to the total for the GS<50 category rather than arbitrarily dividing the costs amongst the three types of meters in the GS<50 category.

Second, Table 8.2 provided in our original application specified the average smart meter unit cost of \$94.66 for residential customers and \$394.34 for GS<50 customers. The totals in Table 2.2 are slightly different at \$91.15 for residential and \$374.66 for GS<50 customers. The variance is due to the fact that 1,412 extra meters were purchased but not yet installed; the cost of these meters is included in Table 2.2 but Table 8.2 of the pre-filed evidence only included costs associated with installed meters. The meters were purchased at the time of mass installation as a contingency to accommodate faulty meters, knowing the additional stock would be useful for customer growth.

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| Class | Type of Meter | Quantity | Meter Cost | Average Meter Cost | Installation cost | Average Installation cost | Other costs | Total Cost | Total Average Cost |
|----------------------|----------------------|----------|-------------|-----------------------|-------------------|---------------------------------|-------------|----------------|--------------------------|
| Residential | Single phase - 2S | 27,941 | \$1,959,227 | \$70.12 | | | | | |
| | Single phase - 3S | 205 | \$29,075 | \$141.83 | | | | | |
| | Single phase - 1S | 26 | \$3,494 | \$134.38 | | | | | |
| | Remote disconnect | 3,518 | \$246,085 | \$69.95 | | | | | |
| | Network | 1,435 | \$213,715 | \$148.93 | | | | | |
| Total Residential | | 33,125 | \$2,451,596 | | \$567,846.15 | \$17.14 | \$0.00 | \$3,019,441.90 | \$91.15 |
| GS<50 | Single phase - 2S | 1,700 | \$118,875 | \$69.93 | | | | | |
| | Polyphase | 1,878 | \$884,569 | \$471.02 | | | | | |
| | Polyphase - 600 V | 110 | \$109,093 | \$991.76 | | | | | |
| Total GS<50 | | 3,688 | \$1,112,537 | | \$202,131.79 | \$54.81 | \$67,091.20 | \$1,381,760.03 | \$374.66 |

Table 2.2 – Average Meter Cost per Rate Category

VECC Question # 3

Reference: Application, Page 17 <u>Preamble</u>: The evidence states "The end goal of the selection process was to find the best fit for our territory and to learn from the experience of others to better mitigate known project risks."

a) Please summarize the known project risks.

3(a) Response

The deployment of Smart Meters represented the single biggest capital project undertaken by Bluewater Power (and most LDCs in Ontario). Electricity utilities in Ontario have become more collaborative in recent years, so risks were both known and rumored (and therefore required confirmation). Some highlights of the risks and solutions investigated during our research phase of the project included:

• Storage space was required to accommodate storage of 'old' meters in case of meter reading discrepancies between the old meters and the new smart meters.

- Customer communication issues were identified associated with both installation of meters and roll out of TOU pricing.
- Communication equipment issues were identified by some utilities as requiring particular attention (i.e. tower placement was critical; additional collectors may be required to accommodate growth; setting deadlines for requiring Smart Meters on new homes).
- Practical deployment issues were identified (i.e. non-flammable/dielectric hornet blaster was required for installers).
- Issues particular to certain meter vendors (i.e. some meters were identified as vulnerable to providing incorrect outage reports)
- WAN cellular modem: The contract with cellular service providers was not applicable for 'data only' plans, so they required negotiation with cell phone vendors. It had taken some utilities 8-10 weeks to build the WANX (tunnel) partly attributable to these delays.

VECC Question # 4

Reference: Application, Page 19

<u>Preamble</u>: The evidence states "Due to a delay in the availability of meter stock from Sensus, the completion of the mass installation was delayed into 2011. This delay of approximately 6 months posed the potential to increase costs of the installation, which could have materially compromised the budget. However, successful negotiations with Honeywell resulted in the amount over budget being limited to approximately \$25,000.

a) Please provide a breakdown and description of the over budget costs.

4(a) Response

| 1. | Additional installation costs: because mass installation was complete, Honeywell had the right to charge 'semi-urban' per meter installation rates given the random location of meters remaining to be changed. We negotiated a compromise rate for the remaining installations with a lesser incremental cost of \$3,735.80. | \$ 3,735.80 |
|----|--|--------------|
| 2. | Warehouse and call centre fees for an additional 4 month period | \$ 12,720.00 |
| 3 | Legal fees & expenses associated with the extension of contract with Honeywell and to enforce the delivery schedule with Sensus | \$ 5,000.00 |
| 4 | Bluewater Power labour for meetings, internal costs to negotiate with meter installation service provider & to initiate dispute resolution with Sensus | \$ 4,000.00 |

It should be noted that while the incremental cost of \$25,455 discussed above has been included for recovery as part of the installation cost for meters, these costs are offset by a credit negotiated with Sensus. That credit is reflected in the meter costs claimed as part of this application for disposition, so there is no net impact on customers from the delay.

VECC Question # 5

Reference: Application, Page 40

<u>Preamble</u>: The application indicates "It is worth noting that those OM&A costs which relate primarily to meter reading are only included in this application up to April 30, 2012; from that point where the AMI replaces foot reading by meter readers, the costs form part of regular OM&A after May 1, 2012 as costs were already incorporated into rates relating to meter reading."

a) Please confirm the amount of meter reading savings and how these savings are accounted for in this application.

5(a) Response

Please see response to Board Staff #14(c).

VECC Question #6

Reference: Application, Page 29

<u>Preamble:</u> The evidence indicates "Smart Meters created additional steps in the business process compared to prior work processes and, therefore, one of the goals during the review of processes was to increase productivity through automation where possible in order to balance the introduction of additional steps associated with Smart Meters. The end result was increased automation that has allowed Bluewater Power to accommodate Smart Meters with no incremental permanent staff."

a) Please provide a summary of incremental internal labour costs incurred by Bluewater Power to implement its smart meter program in terms of positions, contract type (permanent vs. temporary, parttime vs. fulltime), length of employment and work activities.

6(a) Response

It is worth clarifying that internal labour is included in this application for recovery through both capitalized labour and OM&A. The Board has accepted in previous Smart Meter Final Disposition applications that capitalized labour is not "double counted" and has been approved for recovery. The treatment of capitalized labour in those applications and this application is identical to the normal and accepted practice of capitalizing internal labour associated with capital projects. The labour included in OM&A accounts for recovery through this application is further discussed in response to OEB Staff IR#14(b). The labour is made up of the following:

- a) Three temporary, full-time, contract Customer Service Representatives (CSRs) were hired as of May 2011 through to September 2012. These positions cover the 17 month period while smart meters were installed and TOU pricing was implemented. They were required to backfill CSR roles while those permanent CSRs backfilled other permanent roles (Billing and Collections) who were temporarily reassigned to the smart meter project. The total incremental cost of the CSRs included for recovery is \$156,409 and recorded to OEB category 2.5.5.
- b) One employee with relevant experience was shared from an affiliate to the distribution company to assist with customer education, with a total incremental cost of \$1035.
- c) An additional \$86,310 of Internal Labour was included for recovery as OM&A as it was akin to capitalized labour and justified on the basis of the incremental opportunity cost resulting from staff being tied-up with Smart Meters to the detriment of other capital projects (see discussion in response to OEB Staff IR#14(b))

VECC Question # 7

Reference 1: Smart Meter Model (V2_2.21)

Reference 2: Board Guideline G20110001, Smart Meter Funding and Cost Recovery – Final Disposition, dated December 15, 2011, Page 19

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

 a) Please complete a separate smart meter revenue requirement model by rate class. (This should include any revisions to the model resulting from interrogatory responses)

7(a) Response

As discussed at page 43-44 of Bluewater Power's pre-filed evidence, we submit that the application as filed has been completed in a manner consistent with the Board's Guideline G-2011-0001, which states:

"In the Board's decision with respect to PowerStream's 2011 Smart Meter Disposition Application (EB-2011-0128), the Board approved an allocation methodology based on a class-specific revenue requirement, offset by class specific revenues. The Board noted that this approach may not be appropriate or feasible for all distributors as the necessary data may not be readily available11. The Board views that, where practical

Bluewater Power Distribution Corporation EB-2012-0263 Responses to VECC Interrogatories July 25, 2012 Page **10** of **13**

and where the data is available, class specific SMDRs should be calculated based on full cost causality. The methodology approved by the Board in EB-2011-0128 should serve as a suitable guide."

The methodology deployed by Bluewater Power in the pre-filed evidence should be expected to produce similar results as if two separate models had been filed; both methodologies require certain assumptions be made regarding the allocation of costs (and SMFA revenue) amongst the two rate classes. If the same assumptions are made in both methodologies, then similar results should be produced.

Provided in Table 7.1 below, we have provided the results produced from completing two separate models (results shown under the heading 'Per VECC 7'). For comparison purposes, the results from the original methodology deployed in the pre-filed evidence are also detailed (results shown under the heading 'Per Table 8.3 of evidence'). We have also included an updated version of the original evidence (results shown under the heading 'Updated Table 8.3'), which has been updated (similarly to 'Per VECC 7') for the 3 changes noted below in response to items identified through these Interrogatory responses:

- 1. Updated the number of customers to reflect the 2103 forecast (per response to OEB #20(b)).
- 2. Allocated the SMFA revenue collected from rate classes other than residential and GS<50, based on a 50/50 allocation.
- 3. As per Board Staff IR#19(a), Bluewater Power calculated the interest on the OM&A using a monthly methodology (Sheet 8A of the smart meter model) rather than an annual calculation.

As expected, the results are very similar. However, the change in assumptions noted above and variations resulting from the calculations embedded in the model lead to slight differences in the rate riders produced.

The rate rider for residential increased from the original filing of \$4.32 to \$4.45 (a 3.0% increase in the SMDR, which results in no change to the total bill impact of 3.7%) and the rate rider for GS<50 decreased from \$9.02 to \$8.52 (a 5.5% decrease in the SMDR, which results in a decrease in the total bill impact from 3.2% to 3.0%).

The results of the analysis requested by VECC are presented in the Table 7.1 below, and the full models are also included as Appendix 3 (Residential Model) and Appendix 4 (GS<50 Model) to the responses.

Bluewater Power Distribution Corporation EB-2012-0263 Responses to VECC Interrogatories July 25, 2012 Page **11** of **13**

Table VECC 7.1 – SMDR Analysis

| | | Per VECC 7 | | Original Table 8.3 of Evidence UPDATED Table 8.3 | | | | | | | | |
|---------------------------------|----------------------|----------------|--------------|--|-------------|--------------|--------------|-------------|--------------|--|--|--|
| | Residential Model | GS<50 Model | Total | Residential | GS<50 | Total | Residential | GS<50 | Total | | | |
| Return | \$776,926 | \$353,704 | \$1,130,631 | \$775,669 | \$354,962 | \$1,130,631 | \$775,669 | \$354,962 | \$1,130,631 | | | |
| Amortization | \$1,340,757 | \$613,699 | \$1,954,457 | \$1,340,854 | \$613,603 | \$1,954,457 | \$1,340,854 | \$613,603 | \$1,954,457 | | | |
| OM&A | \$590,939 | \$64,931 | \$655,870 | \$590,951 | \$64,918 | \$655,869 | \$590,951 | \$64,918 | \$655,870 | | | |
| PILs | (\$270,073) | (\$123,974) | (\$394,047) | (\$285,187) | (\$108,860) | (\$394,047) | (\$285,187) | (\$108,860) | (\$394,047) | | | |
| Interest on Deferred OM&A | \$38,068 | \$4,183 | \$42,251 | \$32,582 | \$12,437 | \$45,019 | \$30,578 | \$11,672 | \$42,250 | | | |
| Total Revenue Requirement | \$2,476,617 | \$912,544 | \$3,389,161 | \$2,454,869 | \$937,060 | \$3,391,929 | \$2,452,866 | \$936,295 | \$3,389,161 | | | |
| SMFA Allocation | -\$1,618,691 | -\$187,527 | -\$1,806,218 | -\$1,627,343 | -\$178,770 | -\$1,806,113 | -\$1,618,630 | -\$187,482 | -\$1,806,113 | | | |
| True-up balance | \$857,926 | \$725,017 | \$1,582,943 | \$827,526 | \$758,290 | \$1,585,816 | \$834,235 | \$748,813 | \$1,583,048 | | | |
| Rate Rider Calculation | | | | | | | | | | | | |
| Number of customers | 32,122 | 3,544 | | 31,897 | 3,504 | | 32,122 | 3,544 | | | | |
| Residential - 6 months | \$4.45 | -, | | \$4.32 | ., | | \$4.33 | | | | | |
| GS<50 - 24 months | | \$8.52 | | | \$9.02 | | | \$8.80 | | | | |

b) Please recalculate the SMDR & SMIRR rate riders based on full cost causality by rate class.

7(b) Response

See Table VECC 7.1 above for the rate riders requested.

c) Please provide a table that summarizes the total Smart Meter Rate Adder Revenue and associated interest collected by customer class.

7(c) Response

Provided in the first two columns of Table 7.2 below are the total of SMFA revenue and associated interest by rate class. The table also includes the reallocation of the SMFA revenue from 'other' rate classes to the residential and GS<50 rate class under the heading "Allocate SMFA revenue from Other Metered Customers" to produce a total shown under the heading "SMFA Revenue".

The revenue collected from each rate class was not tracked separately as it was collected. Rather, the dollar values shown in Table 7.2 were determined using the monthly customer numbers to estimate the amount of SMFA revenue that would have been expected to be received from each rate class. The percentages that resulted from that calculation were used to allocate the actual total amount of SMFA collected (with interest) which were recorded in the general ledger account (\$1,806,113).

| | SMFA Revenue Collected | Interest | Total | % allocation | Allocate SMFA revenue from Other Metered Customers | SMFA Revenue |
|----------------------------|------------------------------|----------|-------------|--------------|---|--------------|
| Residential | \$1,556,926 | \$51,176 | \$1,608,102 | 89.0% | \$10,528 | \$1,618,630 |
| GS<50 | \$171,323 | \$5,631 | \$176,954 | 9.8% | \$10,528 | \$187,482 |
| Other Metered Customers | \$20,386 | \$670 | \$21,056 | 1.2% | | \$0 |
| TOTAL | \$1,748,635 | \$57,478 | \$1,806,113 | 100.0% | \$21,056 | \$1,806,113 |

Table 7.2 – SMFA Revenue and Interest by Rate Class

VECC Question #8

Reference: Application, Page 6

<u>Preamble:</u> With this application Bluewater Power has proposed a disposition date of November 1, 2012, suggesting the need for a SMDR for costs up to October 31, 2012 and a SMIRR for the months of November and December of 2012. Bluewater Power has proposed an alternative approach, including November and December costs in the SMDR application despite the proposed November 1, 2012 implementation date of the proposed SMDR.

a) Please provide a breakdown of the forecasted November and December 2012 costs.

8(a) Response

There are no forecast OM&A or capital costs for the months of November and December of 2012. There is no spending forecast for inclusion in this recovery past September 2012. As discussed elsewhere in the pre-filed evidence and in response to Interrogatories, all ongoing costs for the AMI have been included in Bluewater Power's normal budget past April of 2012 when meter readers were moved out of the distribution company (past that date, the costs were considered replacement costs for former foot reading costs already built into base rates).

Appendix 1

| | 2006 | 20 | 07 | 2008 | 2009 | 2010 | | 2011 | 2012 | | Total 2006 to 2012 | Explanation Allocator | ID and Factors | Total | Residential | GS<50 |
|--|--------------|----------|-----|--------|---------------|-----------------|----------|-------------|--------------------|-------|---------------------------------------|---|--|---|--|--|
| Revenue Requirement for the Historical Years | \$ 13,802 | | | 23,997 | | | | L,203,759 | | | \$3,389,161.01 | | | | | |
| Total Return on Capital | \$ 170 | \$ 37 | 3\$ | 502 | \$ 3,791 | \$ 182,175 | \$ | 436,054 | \$ 507,566 | , | | | Table 8.2 of prefiled evidence | 100.00% \$1,130,630.85 | 68.60% \$775,668.61 | 31.40% \$354,962.25 |
| Amortization and interest Expense | \$ 144 | \$ 1,14 | 3\$ | 2,660 | \$ 11,707 | \$ 240,241 | \$ | 706,561 | \$ 1,034,251 | ŀ | \$1,996,707.31 Allocated per Class | | Table 8.2 of prefiled evidence | 100.00% \$1,996,707.31 | 68.60% \$1,369,839.84 | 31.40% \$626,867.48 |
| Operating Expenses | \$ 13,439 | \$ 25,75 | 5\$ | 20,836 | \$ 17,177 | \$ 142,644 | \$ | 243,611 | \$ 192,407 | ŀ | \$655,869.59 Allocated per Class | Installed for each Class <mark>s</mark> | Table 8.2 of prefiled evidence | 35,401 \$655,869.59 | 31,897 \$590,951.45 | 3,504 \$64,918.14 |
| Grossed-up Taxes/PILs | \$ 49 | \$7 | 7\$ | (1) | \$ (1,435) | \$ (103,120) |)\$ | (182,468) | \$ (107,149) | ŀ | | | Table 8.2 of prefiled evidence | \$3,740,957.00 -\$394,046.75 Total | \$2,707,474.00 -\$285,186.74 Residential | \$1,033,483.00 -\$108,860.01 GS<50 |
| TOTAL REVENUE REQUIREMENT | | | | | | | | | | | \$3,389,161.01 | | - | \$3,389,161.01 | \$2,451,273.15 | \$937,887.85 |
| | | | | Reve | nue Generated | d from Smart M | leter Fu | nding Add | er (includes inter | 5 | | ts allocated to Re | sidential and GS < | 100.00% | 72.33% | 27.67% |
| | | | | | | | | | | | | | directly attributable to venues (from other | | 89.04% 0.58% | 9.80% 0.58% |
| | | | | | _ | | | | | | - | Total | | | 89.62% | 10.38% |
| | | | | | Révenues Ger | nerated from SN | | Deferred Re | evenue Requirem | nent | \$1,806,112.79 \$0.00 | | | | \$ 1,618,630.38 | \$187,482.41 |
| | | | | | | | | | | F | Ramainder to be A Number of Metere | | s (2013 Forecast) | \$1,583,048.22 | \$832,642.77 32,122 | \$750,405.45 3,544 |
| | | | | | | | | | S | Smart | t Meter Dispositio | | · · | | | |
| | | | | | | | | | | _ | | Residenital | 6 months | | \$4.32 | |
| Summary of SMFA Revenue Allocation | | | | | | | | | | | | GS<50 | 24 months | | | \$8.82 |

| | | | | | Allocate Other | |
|-------------------------|----------------|----------|-------------|--------------|----------------|-------------|
| | | | | | Metered | Total SMFA |
| | SMFA Collected | Interest | Total | % allocation | SMFA revenue | Revenue |
| Residential | \$1,556,926 | \$51,176 | \$1,608,102 | 89.0% | \$10,528 | \$1,618,630 |
| GS<50 | \$171,323 | \$5,631 | \$176,954 | 9.8% | \$10,528 | \$187,482 |
| Other Metered Customers | \$20,386 | \$670 | \$21,056 | 1.2% | | |
| TOTAL | \$1,748,635 | \$57,478 | \$1,806,113 | 100.0% | \$21,056 | \$1,806,113 |

Summary of SMFA Revenue Allocation

Appendix 2

V 2.21



<>

Ontario Energy Board Smart Meter Model (for 2013 Rates Applications)

Choose Your Utility: Bluewater Power Distribution Corporation Brant County Power Inc.

Application Contact Information

| Name: | Leslie Dugas |
|--------------------------------------|-------------------------------|
| Title: | Manager of Regulatory Affairs |
| Phone Number: | 519-337-8201 Ext 2255 |
| Email Address: | Idugas@bluewaterpower.com |
| We are applying for rates effective: | November 1, 2012 |
| Last COS Re-based Year | 2009 |

Copyright

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results. The use of any models and spreadsheets does not automatically imply Board approval. The onus is on the distributor to prepare, document and support its application. Board-issued Excel models and spreadsheets are offered to assist parties in providing the necessary information so as to facilitate an expeditious review of an application. The onus remains on the applicant to ensure the accuracy of the data and the results.

1. Utility_Info



Bluewater Power Distribution Corporation

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.

| | | 2006 | 2007 |
|--|--|----------------|------------|
| Smart Meter Capital Cost and Operational Expense Data | | Audited Actual | Audited Ac |
| 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) | | 0 | |
| Percentage of Residential and GS < 50 kW Smart Meter Installations Completed | | 0.00% | (|
| Actual/Planned number of GS > 50 kW meters installed | | | |
| Other (please identify) | | | |
| Total Number of Smart Meters installed or planned to be installed | | 0 | |
| 1 Capital Costs | | | |
| 1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD) | Asset Type Asset type must be selected to enable calculations | Audited Actual | Audited Ac |
| 1.1.1 Smart Meters (may include new meters and modules, etc.) | Smart Meter | | |
| 1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.) | Smart Meter | | |
| 1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.) | Tools & Equipment | | |
| 1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.) | | | |
| Total Advanced Metering Communications Devices (AMCD) | | \$ | \$ |
| 1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN) | Asset Type | Audited Actual | Audited Ac |
| 1.2.1 Collectors | Smart Meter | | |
| 1.2.2 Repeaters (may include radio licence, etc.) | Computer Hardware | | |
| 1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.) | Computer Hardware | | |
| Total Advanced Metering Regional Collector (AMRC) (Includes LAN) | | \$ - | \$ |



2010 2011 2008 2009 Total ctual Audited Actual Audited Actual Audited Actual Audited Actual Forecast Forecast 28,293 3,586 18 31897 1,488 2,012 4 3504 29781 5598 35379 22 0 0.00% 0.00% 84.18% 100.00% 0.00% 100.06% 100.00% 0.00% 0 0 29781 5598 35401 0 22 Audited Actual Audited Actual Audited Actual Audited Actual Forecast Forecast ctual 3,303,275 327,354 595 3,631,224 \$ 436,359 769,977 279,482 54,136 5,934 5,934 \$ -<u>-</u> \$ <u>-</u> \$ <u>3,745,568</u> \$ <u>606,836</u> \$ <u>54,731</u> \$ <u>-</u> \$ <u>4,407,135</u> Audited Actual ctual Audited Actual Audited Actual Audited Actual Forecast Forecast 260,747 \$ 260,747 6,928 \$ 6,928 3,035 10,504 227,227 3,436 \$ 244,202 - \$ 3,035 \$ 10,504 \$ 494,902 \$ 3,436 \$ - \$ -\$ 511,877

2012

2013

| 1.3 ADVANCED METERING CONTROL COMPUTER (AMCC) | Asset Type | Audited Actual | Audited Act |
|--|-------------------|----------------|-------------|
| | - | Addited Actual | Audited Act |
| 1.3.1 Computer Hardware | Computer Hardware | | |
| 1.3.2 Computer Software | Computer Software | | |
| 1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.) | | | |
| Total Advanced Metering Control Computer (AMCC) | | \$- | \$ |
| | | | |
| | Asset Type | | |
| 1.4 WIDE AREA NETWORK (WAN) | | Audited Actual | Audited Act |
| 1.4.1 Activiation Fees | | | |
| Total Wide Area Network (WAN) | | \$- | \$ |
| | Asset Type | | |
| 1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY | | Audited Actual | Audited Act |
| 1.5.1 Customer Equipment (including repair of damaged equipment) | Other Equipment | | |
| 1.5.2 AMI Interface to CIS | Computer Software | | |
| 1.5.3 Professional Fees | Computer Hardware | | |
| 1.5.4 Integration | Computer Software | | |
| 1.5.5 Program Management | Computer Software | 172 | · · · · · |
| 1.5.6 Other AMI Capital | Computer Software | | |
| Total Other AMI Capital Costs Related to Minimum Functionality | | \$ 172 | \$1 |
| Total Capital Costs Related to Minimum Functionality | | \$ 172 | \$1 |
| | Asset Type | | |
| 1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY (Please provide a descriptive title and identify nature of beyond minimum functionality costs) | | Audited Actual | Audited Act |
| 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 | | |
| Total Capital Costs Beyond Minimum Functionality | | \$- | \$ |
| Total Smart Meter Capital Costs | | \$ 172 | \$1 |

| ed Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | |
|-----------|----------------|----------------|----------------|----------------|------------|-----------|-----------------|
| | | | 6,138 | | | | \$ 6,138 |
| | | 29,658 | 177,037 | | | | \$ 206,695 |
| | | | | | | | \$ - |
| | \$ - | \$ 29,658 | \$ 183,175 | \$- | \$ - | \$ - | \$ 212,833 |
| | | | | | | | |
| ed Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | |
| | | | | | | | \$ - |
| - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | |
| ed Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | |
| | | | 39,853 | 8,300 | | | \$ 48,153 |
| | | | | | | | \$ - |
| | 840 | 39,137 | 26,812 | 6,654 | | | \$ 73,443 |
| | | | | | | | \$ - |
| 1,316 | 448 | 2,184 | 56,697 | 51,968 | 67,530 | | \$ 180,315 |
| , | | 16,106 | 286,111 | 172,401 | 144,940 | | \$ 619,557 |
| 1,316 | \$ 1,288 | \$ 57,427 | \$ 409,473 | \$ 239,323 | \$ 212,470 | \$ - | \$ 921,468 |
| | | | | | | | |
| 1,316 | \$ 4,323 | \$ 97,589 | \$ 4,833,118 | \$ 849,595 | \$ 267,201 | <u>\$</u> | \$ 6,053,313 |
| ed Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | |
| | | | | | | | |
| | | | | | | | \$ - |
| | | | | | | | \$ - |
| | | | | | | | |
| | | | 29,742 | 1,943,146 | 557,785 | | \$ 2,530,673 |
| - | \$ - | \$ - | \$ 29,742 | \$ 1,943,146 | \$ 557,785 | \$- | \$ 2,530,673 |
| 1,316 | \$ 4,323 | \$ 97,589 | \$ 4,862,860 | \$ 2,792,741 | \$ 824,986 | \$- | \$ 8,583,986 |
| | | | | | | | |

2 OM&A Expenses

| 2.1 ADVANCED METERING CO | DMMUNICATION DEVICE (AMCD) | | Audited Actual | Audit | ted Act |
|---|---|--------------------|----------------|-------|---------|
| 2.1.1 Maintenance (may include me | eter reverification costs, etc.) | | | | |
| 2.1.2 Other (please specifiy) | ODS Fees | | 1,935 | | |
| Total Incremental AMCD OM& | A Costs | | \$ 1,935 | \$ | 6 |
| 2.2 ADVANCED METERING RE | GIONAL COLLECTOR (AMRC) (includes LAN) | | | | |
| 2.2.1 Maintenance | | | | | |
| 2.2.2 Other (please specifiy) | Network Fees | | | | |
| Total Incremental AMRC OM& | A Costs | | \$- | \$ | |
| 2.3 ADVANCED METERING CO | ONTROL COMPUTER (AMCC) | | | | |
| 2.3.1 Hardware Maintenance (m | ay include server support, etc.) | | | | |
| 2.3.2 Software Maintenance (may | include maintenance support, etc.) | | | | |
| 2.3.2 Other (please specifiy) | | | | | |
| Total Incremental AMCC OM& | A Costs | | \$ - | \$ | |
| 2.4 WIDE AREA NETWORK (W | /AN) | | | | |
| 2.4.1 WAN Maintenance | | | | | |
| 2.4.2 Other (please specifiy) | | | | | |
| Total Incremental AMRC OM& | A Costs | | \$- | \$ | |
| 2.5 OTHER AMI OM&A COSTS | RELATED TO MINIMUM FUNCTIONALITY | | | | |
| 2.5.1 Business Process Redesig | ın | | | | |
| 2.5.2 Customer Communication | (may include project communication, etc.) | | 27 | | |
| 2.5.3 Program Management | | | 2,151 | | 1 |
| 2.5.4 Change Management (ma | y include training, etc.) | | | | |
| 2.5.5 Administration Costs | | | 9,326 | | |
| 2.5.6 Other AMI Expenses | | | | | |
| (please specify) Total Other AMI OM&A Costs F | Related to Minimum Functionality | | \$ 11,504 | \$ | 19 |
| TOTAL OM&A COSTS RELATE | ED TO MINIMUM FUNCTIONALITY | | \$ 13,439 | \$ | 25 |
| | O BEYOND MINIMUM FUNCTIONALITY | | Audited Actual | Audit | ted Act |
| 2.6.1 Costs related to technical | entify nature of beyond minimum functionality costs) capabilities in the smart meters or related communication | ons infrastructure | | | |
| that exceed those specified in O. | Reg 425/06 | | | | |
| 2.6.2 Costs for deployment of sr and small general service | nart meters to customers other than residential | | | | |
| - | nentation, CIS system upgrades, web presentation, | | | | |
| integration with the MDM/R, etc. | | | | | |
| Total OM&A Costs Beyond Mir | imum Functionality | | \$- | \$ | |
| Total Smart Meter OM&A Cost | S | | \$ 13,439 | \$ | 25 |

| d Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | | |
|----------|----------------|----------------|----------------|----------------|------------|----------|----|---------|
| | | | | | | | \$ | - |
| 6,112 | 4,497 | 4,727 | 16,584 | 40,456 | 22,087 | | \$ | 96,399 |
| 6,112 | \$ 4,497 | \$ 4,727 | \$ 16,584 | \$ 40,456 | \$ 22,087 | \$- | \$ | 96,399 |
| | | | | | | | | |
| | | | | | | | \$ | - |
| | | | 29,633 | 49,134 | 21,563 | | \$ | 100,329 |
| - | \$- | \$ - | \$ 29,633 | \$ 49,134 | \$ 21,563 | \$- | \$ | 100,329 |
| | | | | | | | | |
| | | | | | | | \$ | - |
| | | | 26,157 | 9,026 | 1,359 | | \$ | 36,542 |
| | | | | | | | \$ | - |
| - | \$- | \$ | \$ 26,157 | \$ 9,026 | \$ 1,359 | \$- | \$ | 36,542 |
| | | | | | | | | |
| | | | | | | | \$ | - |
| | | | | | | | \$ | - |
| - | \$ - | \$ - | \$ - | \$- | \$- | \$- | \$ | - |
| | | | | | | | | |
| | | | 2,938 | 10,833 | | | \$ | 13,772 |
| | | | 55,819 | 14,749 | | | \$ | 70,596 |
| 14,796 | 16,322 | 6,583 | -1,590 | | | | \$ | 38,263 |
| | | 5,848 | 12,223 | 14,586 | 19,206 | | \$ | 51,864 |
| 4,847 | 16 | 19 | 880 | 104,826 | 107,072 | | \$ | 226,985 |
| | | | | | | | \$ | - |
| 19,643 | \$ 16,338 | \$ 12,450 | \$ 70,270 | \$ 144,995 | \$ 126,278 | \$- | \$ | 401,479 |
| 25,755 | \$ 20,836 | \$ 17,177 | \$ 142,644 | \$ 243,611 | \$ 171,288 | \$- | \$ | 634,750 |
| d Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | | | | |
| | | | | | | | ¢ | |
| | | | | | | | \$ | - |
| | | | | | | | \$ | - |
| | | | | | | | | |
| | | | | | 21,120 | | \$ | 21,120 |
| - | \$ | \$ | \$ | \$ | \$ 21,120 | \$ - | \$ | 21,120 |
| 25,755 | \$ 20,836 | \$ 17,177 | \$ 142,644 | \$ 243,611 | \$ 192,407 | \$- | \$ | 655,870 |

3 Aggregate Smart Meter Costs by Category

| 3.1 | Capital | | | | | | | | | | |
|-------|-----------------------|--------------|--------------|--------------|--------------|-----------------|-----------------|---------------|---------|-----------------|--|
| 3.1.1 | Smart Meter | \$ - | \$ - | \$ - | \$ - | \$ 4,000,381 | \$ 606,836 | \$ 54,731 | \$ - | \$ 4,661,948 | |
| 3.1.2 | Computer Hardware | \$ - | \$ - | \$ 3,875 | \$ 49,641 | \$ 267,105 | \$ 10,090 | \$ - | \$ - | \$ 330,711 | |
| 3.1.3 | Computer Software | \$ 172 | \$ 1,316 | \$ 448 | \$ 47,948 | \$ 549,587 | \$ 2,167,515 | \$ 770,255 | \$ - | \$ 3,537,240 | |
| 3.1.4 | Tools & Equipment | \$ - | \$ - | \$ - | \$ - | \$ 5,934 | \$ - | \$ - | \$ - | \$ 5,934 | |
| 3.1.5 | Other Equipment | \$ - | \$ - | \$ - | \$ - | \$ 39,853 | \$ 8,300 | \$ - | \$ - | \$ 48,153 | |
| 3.1.6 | Applications Software | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| 3.1.7 | Total Capital Costs | \$ 172 | \$ 1,316 | \$ 4,323 | \$ 97,589 | \$ 4,862,860 | \$ 2,792,741 | \$ 824,986 | \$ - | \$ 8,583,986 | |
| 3.2 | OM&A Costs | | | | | | | | | | |
| 3.2.1 | Total OM&A Costs | \$ 13,439 | \$ 25,755 | \$ 20,836 | \$ 17,177 | \$ 142,644 | \$ 243,611 | \$ 192,407 | \$ - | \$ 655,870 | |



Ontario Energy Board Smart Meter Model

Bluewater Power Distribution Corporation

| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Cost of Capital | | | | | | | | |
| Capital Structure ¹ | | | | | | | | |
| Deemed Short-term Debt Capitalization | | | | 4.0% | 4.0% | 4.0% | 4.0% | 4.0% |
| Deemed Long-term Debt Capitalization | 50.0% | 50.0% | 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 | | | 0.00% | 1.33% | 1.33% | 1.33% | 1.33% | 1.33% |
| Long-term Debt Rate (actual/embedded/deemed) ² | 7.25% | 7.25% | 7.25% | 7.62% | 7.62% | 7.62% | 7.62% | 7.62% |
| 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 | 8.13% | 8.13% | 8.07% | 7.54% | 7.52% | 7.52% | 7.52% | 7.52% |
| Working Capital Allowance | | | | | | | | |
| Working Capital Allowance Rate | 15.0% | 15.0% | 15.0% | 12.0% | 12.0% | 12.0% | 12.0% | 12.0% |
| (% of the sum of Cost of Power + controllable expenses) | | | | | | | | |
| Taxes/PILs | | | | | | | | |
| Aggregate Corporate Income Tax Rate | 36.12% | 36.12% | 33.50% | 33.00% | 31.00% | 28.25% | 26.25% | 25.50% |
| 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 | 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% |
| Tools & Equipment - years | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| - rate (%) | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% |
| Other Equipment - years | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| - rate (%) | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% |
| CCA Rates Smart Meters - CCA Class Smart Meters - CCA Rate | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Computer Equipment - CCA Class Computer Equipment - CCA Rate | 46 30% | 46 30% | 46 30% | 46 30% | 46 | 46 30% | 46 | 46 |
| General Equipment - CCA Class General Equipment - CCA Rate | 8 20% | 8 20% | 8 20% | 8 20% | 8 20% | 8 20% | 8 20% | 8 20% |
| Applications Software - CCA Class Applications Software - CCA Rate | | | | | | | | |

Assumptions

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



| Bluewater Power Distribution | Corporation | n | | | | | | | | | | | | | |
|---|-------------|----|------|-----|-------|----------|--------|-----|-----------|----------|-----------|----------|-----------|----------|-----------|
| Net Fixed Assets - Smart Meters | 20 | 06 | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | | 2013 |
| Gross Book Value | | | | | | | | | | | | | | | |
| Opening Balance | | | \$- | \$ | - | \$ | - | \$ | - | \$ | 4,000,381 | \$ | 4,607,217 | \$ | 4,661,948 |
| Capital Additions during year (from Smart Meter Costs) | \$ | - | \$ - | \$ | - | \$ | - | \$ | 4,000,381 | \$ | 606,836 | \$ | 54,731 | \$ | - |
| Retirements/Removals (if applicable) Closing Balance | \$ | - | \$ - | \$ | - | \$ | - | \$ | 4,000,381 | \$ | 4,607,217 | \$ | 4,661,948 | \$ | 4,661,948 |
| Accumulated Depreciation | | | | | | | | | | | | | | | |
| Opening Balance | | | \$ - | \$ | - | \$ | - | \$ | - | -\$ | 133,346 | -\$ | 420,266 | -\$ | 729,238 |
| Amortization expense during year | \$ | - | \$ - | \$ | - | \$ | - | -\$ | 133,346 | -\$ | 286,920 | -\$ | 308,972 | -\$ | 310,797 |
| Retirements/Removals (if applicable) | | | | | | | | | | | | | | | |
| Closing Balance | \$ | - | \$ - | \$ | - | \$ | _ | -\$ | 133,346 | -\$ | 420,266 | -\$ | 729,238 | -\$ | 1,040,035 |
| Net Book Value | | | | | | | | | | | | | | | |
| Opening Balance | \$ | - | \$- | \$ | - | \$ | - | \$ | - | \$ | 3,867,035 | \$ | 4,186,951 | \$ | 3,932,710 |
| Closing Balance | \$ | - | \$ - | \$ | - | \$ | - | \$ | 3,867,035 | \$ | 4,186,951 | \$ | 3,932,710 | \$ | 3,621,913 |
| Average Net Book Value | \$ | - | \$ - | \$ | - | \$ | - | \$ | 1,933,517 | \$ | 4,026,993 | \$ | 4,059,830 | \$ | 3,777,312 |
| Net Fixed Assets - Computer Hardware | | | | | | | | | | | | | | | |
| Gross Book Value | | | | | | | | | | | | | | | |
| Opening Balance | | | \$- | \$ | - | \$ | 3,875 | \$ | 53,516 | \$ | 320,621 | \$ | 330,711 | \$ | 330,711 |
| Capital Additions during year (from Smart Meter Costs) | \$ | - | \$ - | \$ | 3,875 | \$ | 49,641 | \$ | 267,105 | \$ | 10,090 | \$ | - | \$ | - |
| Retirements/Removals (if applicable) | <u>۴</u> | | ¢ | | 2.075 | <u>۴</u> | 52.540 | | 220 624 | <u>۴</u> | 220 711 | <u>۴</u> | 220 714 | <u>۴</u> | 220 744 |
| Closing Balance | <u>Þ</u> | - | \$ | \$ | 3,875 | \$ | 53,516 | \$ | 320,621 | Þ | 330,711 | \$ | 330,711 | \$ | 330,711 |
| Accumulated Depreciation | | | | | | | | | | | | | | | |
| Opening Balance | T | - | • | | - | -\$ | 388 | -\$ | 6,127 | | 43,540 | -\$ | 108,674 | -\$ | 174,816 |
| Amortization expense during year | \$ | - | \$ - | -\$ | 388 | -\$ | 5,739 | -\$ | 37,414 | -\$ | 65,133 | -\$ | 66,142 | -\$ | 66,142 |
| Retirements/Removals (if applicable) Closing Balance | ¢ | | ¢ | ¢ | 388 | ¢ | 6 107 | ¢ | 12 540 | ¢ | 109 674 | | 174 016 | ¢ | 240.050 |
| | \$ | - | \$- | -\$ | 300 | -\$ | 6,127 | -\$ | 43,540 | -\$ | 108,674 | -\$ | 174,816 | -\$ | 240,958 |
| Net Book Value | | | | | | | | | | | | | | | |
| Opening Balance | \$ | - | \$- | \$ | - | \$ | 3,488 | \$ | 47,389 | \$ | 277,081 | \$ | 222,038 | \$ | 155,895 |
| Closing Balance | \$ | - | \$ - | \$ | 3,488 | \$ | 47,389 | \$ | 277,081 | \$ | 222,038 | \$ | 155,895 | \$ | 89,753 |
| Average Net Book Value | \$ | - | \$ - | \$ | 1,744 | \$ | 25,438 | \$ | 162,235 | \$ | 249,559 | \$ | 188,966 | \$ | 122,824 |

Ontario Energy Board Smart Meter Model

Net Fixed Assets - Computer Software (including Applications Software)

| Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance | \$ \$ | 172 | \$ \$ \$ | 172 1,316 1,488 | \$ \$ | 1,488 448 1,936 | \$ \$ \$ | 1,936 47,948 49,884 | \$ \$ \$ | 49,884 549,587 599,471 | \$ \$ \$ | 599,471 2,167,515 2,766,986 | \$ \$ | 2,766,986 770,255 3,537,240 | \$ \$ \$ | 3,537,240 - 3,537,240 |
|--|------------------|----------------|-------------------|-----------------------|-------------------|-------------------------|-------------------|---------------------------|-------------------|------------------------------|-------------------|-----------------------------------|-------------------|-------------------------------------|-------------------|-------------------------------------|
| Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance | \$ -\$ -\$ | 17 | -\$ -\$ -\$ | 17 166 183 | -\$ -\$ -\$ | 183 342 526 | -\$ -\$ -\$ | 526 5,182 5,708 | -\$ -\$ -\$ | 5,708 64,936 70,643 | -\$ -\$ -\$ | 70,643 336,646 407,289 | -\$ -\$ -\$ | 407,289 630,423 1,037,711 | -\$ -\$ -\$ | 1,037,711 707,448 1,745,159 |
| Net Book Value Opening Balance Closing Balance Average Net Book Value Net Fixed Assets - Tools and Equipment | \$ \$ | - 155 77 | \$ \$ | 155 1,305 730 | \$ \$ | 1,305 1,410 1,358 | \$ \$ \$ | 1,410 44,176 22,793 | \$ \$ \$ | 44,176 528,828 286,502 | \$ \$ \$ | 528,828 2,359,697 1,444,262 | \$ \$ \$ | 2,359,697 2,499,529 2,429,613 | \$ \$ \$ | 2,499,529 1,792,081 2,145,805 |
| Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance | \$ \$ | - - - | \$ \$ \$ | - - - | \$ \$ \$ | - - | \$ \$ \$ | - - - | \$ \$ \$ | 5,934 | \$ \$ \$ | 5,934 - 5,934 | \$ \$ | 5,934 - 5,934 | \$ \$ \$ | 5,934 - 5,934 |
| Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | | \$ -\$ -\$ | | -\$ -\$ -\$ | 297 593 890 | -\$ -\$ -\$ | 890 593 1,484 | -\$ -\$ -\$ | 1,484 593 2,077 |
| Net Book Value Opening Balance Closing Balance Average Net Book Value | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | - - | \$ \$ | 5,637 2,819 | \$ \$ \$ | 5,637 5,044 5,341 | \$ \$ | 5,044 4,451 4,747 | \$ \$ | 4,451 3,857 4,154 |
| Net Fixed Assets - Other Equipment Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance | \$ \$ | | \$ \$ | - - | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | 39,853 39,853 | \$ \$ \$ | 39,853 8,300 48,153 | \$ \$ \$ | 48,153 - 48,153 | \$ \$ \$ | 48,153 - 48,153 |
| Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | - | \$ -\$ -\$ | 1,993 | -\$ -\$ -\$ | 1,993 4,400 6,393 | -\$ -\$ -\$ | 6,393 4,815 11,208 | -\$ -\$ _\$ | 11,208 4,815 16,024 |
| Net Book Value Opening Balance Closing Balance Average Net Book Value | \$ \$ \$ | - - | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | | \$ \$ \$ | 37,860 18,930 | \$ \$ \$ | 37,860 41,760 39,810 | \$ \$ | 41,760 36,945 39,352 | \$ \$ \$ | 36,945 32,129 34,537 |

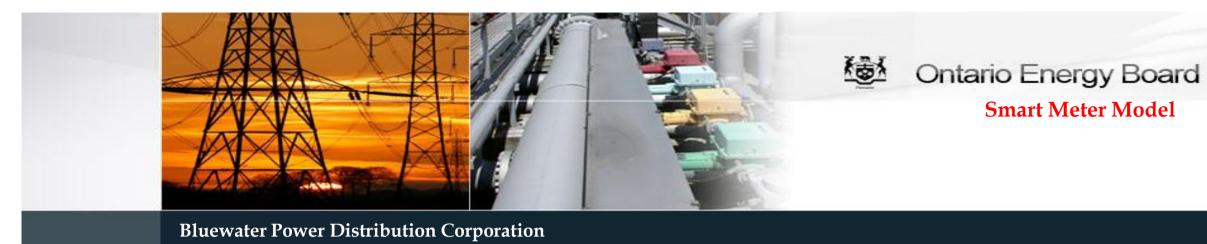


Ontario Energy Board Smart Meter Model

Bluewater Power Distribution Corporation

| | | 2006 | | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | | 2013 |
|--|----|--------|----------|--------|-----|--------|-----|----------|-----|------------|--------|------------|-----|------------|---------|-----------|
| Average Net Fixed Asset Values (from Sheet 4) | ¢ | | ۴ | | ۴ | | • | | ¢ | 4 000 547 | • | 4 000 000 | ¢ | 4 050 000 | ¢ | 0 777 040 |
| Smart Meters | \$ | - | ф Ф | - | \$ | - | \$ | - | \$ | 1,933,517 | ъ С | 4,026,993 | \$ | 4,059,830 | \$ | 3,777,312 |
| Computer Hardware | Þ | - | ¢ | - | Þ | 1,744 | \$ | 25,438 | Þ | 162,235 | Þ | 249,559 | \$ | 188,966 | \$ | 122,824 |
| Computer Software | \$ | 77 | \$ \$ | 730 | \$ | 1,358 | \$ | 22,793 | \$ | 286,502 | \$ | 1,444,262 | \$ | 2,429,613 | \$ | 2,145,805 |
| Tools & Equipment | \$ | - | \$ \$ | - | \$ | - | \$ | - | \$ | 2,819 | \$ | 5,341 | \$ | 4,747 | \$ • | 4,154 |
| Other Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 18,930 | \$ | 39,810 | \$ | 39,352 | \$ | 34,537 |
| Total Net Fixed Assets | \$ | 77 | \$ | 730 | \$ | 3,101 | \$ | 48,232 | \$ | 2,404,004 | \$ | 5,765,965 | \$ | 6,722,509 | \$ | 6,084,632 |
| Working Capital | | | | | | | | | | | | | | | | |
| Operating Expenses (from Sheet 2) | \$ | 13,439 | \$ | 25,755 | \$ | 20,836 | \$ | 17,177 | \$ | 142,644 | \$ | 243,611 | \$ | 192,407 | \$ | - |
| Working Capital Factor (from Sheet 3) | | 15% | | 15% | | 15% | | 12% | | 12% | | 12% | | 12% | | 12% |
| Working Capital Allowance | \$ | 2,016 | \$ | 3,863 | \$ | 3,125 | \$ | 2,061 | \$ | 17,117 | \$ | 29,233 | \$ | 23,089 | \$ | - |
| Incremental Smart Meter Rate Base | \$ | 2,093 | \$ | 4,593 | \$ | 6,227 | \$ | 50,293 | \$ | 2,421,121 | \$ | 5,795,199 | \$ | 6,745,598 | \$ | 6,084,632 |
| Return on Rate Base | | | | | | | | | | | | | | | | |
| Capital Structure | | | | | | | | | | | | | | | | |
| Deemed Short Term Debt | \$ | - | \$ | - | \$ | - | \$ | 2,012 | \$ | 96,845 | \$ | 231,808 | \$ | 269,824 | \$ | 243,385 |
| Deemed Long Term Debt | \$ | 1,047 | \$ | 2,297 | \$ | 3,319 | \$ | 26,504 | \$ | 1,355,828 | \$ | 3,245,311 | \$ | 3,777,535 | \$ | 3,407,394 |
| Equity | \$ | 1,047 | \$ | 2,297 | \$ | 2,908 | \$ | 21,777 | \$ | 968,448 | \$ | 2,318,079 | \$ | 2,698,239 | \$ | 2,433,853 |
| Preferred Shares | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| Total Capitalization | \$ | 2,093 | \$ | 4,593 | \$ | 6,227 | \$ | 50,293 | \$ | 2,421,121 | \$ | 5,795,199 | \$ | 6,745,598 | \$ | 6,084,632 |
| Return on | | | | | | | | | | | | | | | | |
| Deemed Short Term Debt | \$ | - | \$ | - | \$ | - | \$ | 27 | \$ | 1,288 | \$ | 3,083 | \$ | 3,589 | \$ | 3,237 |
| Deemed Long Term Debt | \$ | 76 | \$ | 166 | \$ | 241 | \$ | 2,020 | \$ | 103,314 | \$ | 247,293 | \$ | 287,848 | \$ | 259,643 |
| Equity | \$ | 94 | \$ | 207 | \$ | 262 | \$ | 1,744 | \$ | 77,573 | \$ | 185,678 | \$ | 216,129 | \$ | 194,952 |
| Preferred Shares | \$ | - | \$ | - | ŝ | - | ŝ | - | \$ | - | ŝ | - | \$ | - | \$ | - |
| Total Return on Capital | \$ | 170 | \$ | 373 | \$ | 502 | \$ | 3,791 | \$ | 182,175 | \$ | 436,054 | \$ | 507,566 | \$ | 457,832 |
| | | | | | | | | | | | | | | | | |
| Operating Expenses | \$ | 13,439 | \$ | 25,755 | \$ | 20,836 | \$ | 17,177 | \$ | 142,644 | \$ | 243,611 | \$ | 192,407 | \$ | - |
| Amortization Expenses (from Sheet 4) | | | | | | | | | • | | | | • | | • | |
| Smart Meters | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 133,346 | \$ | 286,920 | \$ | 308,972 | \$ | 310,797 |
| Computer Hardware | \$ | - | \$ | - | \$ | 388 | \$ | 5,739 | \$ | 37,414 | \$ | 65,133 | \$ | 66,142 | \$ | 66,142 |
| Computer Software | \$ | 17 | \$ | 166 | \$ | 342 | \$ | 5,182 | \$ | 64,936 | \$ | 336,646 | \$ | 630,423 | \$ | 707,448 |
| Tools & Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 297 | \$ | 593 | \$ | 593 | \$ | 593 |
| Other Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 1,993 | \$ | 4,400 | \$ | 4,815 | \$ | 4,815 |
| Total Amortization Expense in Year | \$ | 17 | \$ | 166 | \$ | 730 | \$ | 10,921 | \$ | 237,985 | \$ | 693,693 | \$ | 1,010,946 | \$ | 1,089,795 |
| Incremental Revenue Requirement before Taxes/PILs | \$ | 13,627 | \$ | 26,294 | \$ | 22,068 | \$ | 31,889 | \$ | 562,803 | \$ | 1,373,357 | \$ | 1,710,919 | \$ | 1,547,627 |
| Calculation of Taxable Income | | | | | | | | | | | | | | | | |
| Incremental Operating Expenses | \$ | 13,439 | \$ | 25,755 | \$ | 20,836 | \$ | 17,177 | \$ | 142,644 | \$ | 243,611 | \$ | 192,407 | \$ | - |
| Amortization Expense | \$ | 17 | \$ | 166 | \$ | 730 | \$ | 10,921 | \$ | 237,985 | \$ | 693,693 | \$ | 1,010,946 | \$ | 1,089,795 |
| Interest Expense | \$ | 76 | \$ | 166 | \$ | 241 | \$ | 2,046 | \$ | 104,602 | \$ | 250,376 | \$ | 291,437 | \$ | 262,880 |
| Net Income for Taxes/PILs | \$ | 94 | \$ | 207 | \$ | 262 | \$ | 1,744 | \$ | 77,573 | \$ | 185,678 | \$ | 216,129 | \$ | 194,952 |
| Grossed-up Taxes/PILs (from Sheet 7) | \$ | 48.86 | \$ | 77.25 | -\$ | 0.63 | -\$ | 1,434.95 | -\$ | 103,120.48 | -\$ | 182,467.74 | -\$ | 107,149.06 | \$ | - |
| Revenue Requirement, including Grossed-up Taxes/PILs | \$ | 13,675 | \$ | 26,372 | \$ | 22,067 | \$ | 30,454 | \$ | 459,683 | \$ | 1,190,890 | \$ | 1,603,770 | \$ | 1,547,627 |





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 Capital Additions Retirements/Removals (if applicable) | \$ - \$ - | \$- \$- | \$- \$- | \$- \$- | \$- \$4,000,381.00 | \$ 3,600,342.90 \$ 606,836.00 | \$ 3,426,426.72 \$ 54,731.00 | \$2,790,399.28 \$- |
| UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC CCA Rate Class CCA Rate CCA Closing UCC | \$ - \$ - \$ - \$ - 8 20% \$ - \$ - | \$ - \$ - \$ - \$ - 8 20% \$ - \$ - | \$ - \$ - \$ - 8 - 20% - \$ - \$ - \$ - | \$ - \$ - \$ - \$ - 8 - 20% \$ - \$ - | \$ 4,000,381.00 \$ 2,000,190.50 \$ 2,000,190.50 \$ 2,000,190.50 8 20% \$ 400,038.10 \$ 3,600,342.90 | \$ 4,207,178.90 \$ 303,418.00 \$ 3,903,760.90 8 20% \$ 780,752.18 \$ 3,426,426.72 | \$ 3,481,157.72 \$ 27,365.50 \$ 3,453,792.22 8 20% \$ 690,758.44 \$ 2,790,399.28 | \$ 2,790,399.28 \$ - \$ 2,790,399.28 8 20% \$ 558,079.86 \$ 2,232,319.42 |
| | | | | | | | | |
| 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 |



| UCC - General Equipment | 200 Audited | | | 007 d Actual | 2008 ted Actual | 2009 ted Actual | Au | 2010 Idited Actual | Au | 2011 dited Actual | | 2012 Forecast | | 2013 Forecast |
|--|--|---------------------------------|---|--|--------------------|--|----------------------------------|-------------------------|----------------------------------|----------------------|---|---|----------------------|--|
| Opening UCC | \$ | - | \$ | - | \$ - | \$ - | \$ | - | \$ | 41,208.30 | \$ | 40,436.64 | \$ | 32,349.31 |
| Capital Additions Tools & Equipment | \$ | - | \$ | - | \$ - | \$ - | \$ | 5,934.00 | \$ | - | \$ | - | \$ | - |
| Capital Additions Other Equipment | \$ | - | \$ | - | \$ - | \$ - | \$ | 39,853.00 | \$ | 8,300.00 | \$ | - | \$ | - |
| Retirements/Removals (if applicable) | | | | | | | | | | | | | | |
| UCC Before Half Year Rule | \$ | - | \$ | - | \$ - | \$ - | \$ | 45,787.00 | \$ | 49,508.30 | \$ | 40,436.64 | \$ | 32,349.31 |
| Half Year Rule (1/2 Additions - Disposals) | \$ | - | \$ | - | \$ - | \$ - | \$ | 22,893.50 | \$ | 4,150.00 | \$ | - | \$ | - |
| Reduced UCC | \$ | - | \$ | - | \$ - | \$ - | \$ | 22,893.50 | \$ | 45,358.30 | \$ | 40,436.64 | \$ | 32,349.31 |
| CCA Rate Class | 8 | | | 8 | 8 | 8 | | 8 | | 8 | | 8 | | 8 |
| CCA Rate | 20% | % | 2 | 0% | 20% | 20% | | 20% | | 20% | | 20% | | 20% |
| CCA | \$ | - | \$ | - | \$ - | \$ - | <u>\$</u> | 4,578.70 | \$ | 9,071.66 | \$ | 8,087.33 | \$ | 6,469.86 |
| Closing UCC | \$ | - | \$ | - | \$ - | \$ - | \$ | 41,208.30 | \$ | 40,436.64 | \$ | 32,349.31 | \$ | 25,879.45 |
| | | | | | | | | | | | | | | |
| UCC - Applications Software | 200 | 6 | 2 | 007 | 2008 | 2009 | | 2010 | | 2011 | | 2012 | | 2013 |
| UCC - Applications Software | 200 Audited | | | 007 d Actual | 2008 ted Actual | 2009 ted Actual | Au | 2010 Idited Actual | Au | 2011 dited Actual | | 2012 Forecast | | 2013 Forecast |
| | | | | | | | Au \$ | | Au \$ | | \$ | | \$ | |
| Opening UCC | | | | | | | Au \$ \$ | | Au \$ \$ | | \$ | | \$ \$ | |
| Opening UCC Capital Additions Applications Software | | | | | | | Au \$ \$ | | Au \$ \$ | | \$ \$ | | \$ \$ | |
| Opening UCC | | | | | | | Au \$ \$ \$ | | Au \$ \$ \$ | | \$ \$ | | \$ \$ \$ | |
| Opening UCC Capital Additions Applications Software Retirements/Removals (if applicable) | | Actual - - | | | | | Au \$ \$ \$ \$ | idited Actual - - | Au \$ \$ \$ \$ | | \$ \$ \$ | Forecast - - | \$ \$ \$ \$ | |
| Opening UCC Capital Additions Applications Software Retirements/Removals (if applicable) UCC Before Half Year Rule | | Actual - - | | | | | Au \$ \$ \$ \$ \$ | idited Actual - - | Au \$ \$ \$ \$ \$ | | \$ \$ \$ \$ \$ | 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 | Audited \$ \$ \$ \$ \$ \$ \$ \$ 0 | Actual - - - - - | Audite \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | d Actual - - - - - 0 | ted Actual 0 | ted Actual - - - - - 0 | Au \$ \$ \$ \$ \$ | Idited Actual 0 | Au \$ \$ \$ \$ \$ | dited Actual 0 | \$ \$ \$ \$ \$ | Forecast - - - - - - 0 | \$ \$ \$ \$ | Forecast - - - - - 0 |
| 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 CCA Rate | | Actual - - - - - | Audite \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | | Au \$ \$ \$ \$ \$ | idited Actual - - | Au \$ \$ \$ \$ \$ | | \$ \$ \$ \$ \$ \$ \$ \$ | 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 | Audited \$ \$ \$ \$ \$ \$ \$ \$ 0 | Actual - - - - - | Audite \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | d Actual - - - - - 0 | ted Actual 0 | ted Actual - - - - - 0 | Au \$ \$ \$ \$ \$ | Idited Actual 0 | Au \$ \$ \$ \$ \$ | dited Actual 0 | \$ \$ \$ \$ \$ \$ \$ | Forecast - - - - - - 0 | \$ \$ \$ \$ | Forecast - - - - - 0 |



Bluewater Power Distribution Corporation

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 | C | | | | | | | | | | | | | | | | |
| Ne | et Income | \$ | 94.20 | \$ | 206.69 | \$ | 261.71 | \$ | 1,744.33 | \$ | 77,572.71 | \$ | 185,678.17 | \$ | 216,128.97 | \$ | 194,951.59 |
| An | nortization | \$ | 17.20 | \$ | 166.00 | \$ | 729.90 | \$ | 10,921.10 | \$ | 237,984.59 | \$ | 693,692.51 | \$ | 1,010,945.65 | \$ | 1,089,795.47 |
| CC | CA - Smart Meters | \$ | - | \$ | - | \$ | - | \$ | - | -\$ | 400,038.10 | -\$ | 780,752.18 | -\$ | 690,758.44 | -\$ | 558,079.86 |
| | CA - Computers | -\$ | 25.80 | -\$ | 241.26 | -\$ | 1,014.73 | -\$ | 15,997.11 | -\$ | 148,340.15 | -\$ | 552,982.60 | -\$ | 829,266.68 | -\$ | 696,024.86 |
| | CA - Applications Software | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| | CA - Other Equipment | \$ | - | \$ | - | \$ | - | \$ | - | -\$ | 4,578.70 | -\$ | 9,071.66 | -\$ | 8,087.33 | -\$ | 6,469.86 |
| Ch | nange in taxable income | \$ | 85.60 | \$ | 131.43 | -\$ | 23.12 | -\$ | 3,331.68 | -\$ | 237,399.64 | -\$ | 463,435.77 | -\$ | 301,037.84 | \$ | 24,172.49 |
| Ta | ax Rate (from Sheet 3) | | 36.12% | | 36.12% | | 33.50% | | 33.00% | | 31.00% | | 28.25% | | 26.25% | | 25.50% |
| Inc | come Taxes Payable | \$ | 30.92 | \$ | 47.47 | -\$ | 7.75 | -\$ | 1,099.45 | -\$ | 73,593.89 | -\$ | 130,920.60 | -\$ | 79,022.43 | \$ | 6,163.98 |
| ONTARIO CA | APITAL TAX | | | | | | | | | | | | | | | | |
| Sm | nart Meters | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 3,867,034.97 | \$ | 4,186,951.03 | \$ | 3,932,709.87 | \$ | 3,621,913.33 |
| Co | omputer Hardware | \$ | - | \$ | - | \$ | 3,487.50 | \$ | 47,389.40 | \$ | 277,080.70 | \$ | 222,037.50 | \$ | 155,895.30 | \$ | 89,753.10 |
| Co | omputer Software | ¢ | 154.80 | \$ | 1,304.80 | \$ | 1,410.40 | \$ | 44,176.40 | \$ | 528,828.00 | \$ | 2,359,696.88 | \$ | 2,499,528.82 | ¢ | 1,792,080.78 |
| (In | ncluding Application Software) | Φ | 104.00 | Φ | 1,304.80 | φ | 1,410.40 | φ | 44,170.40 | φ | 520,020.00 | φ | 2,359,090.00 | Φ | 2,499,520.02 | Φ | 1,792,000.70 |
| | ools & Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 5,637.30 | \$ | 5,043.90 | \$ | 4,450.50 | \$ | 3,857.10 |
| | ther Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 37,860.35 | \$ | 41,760.05 | \$ | 36,944.75 | \$ | 32,129.45 |
| | ate Base | \$ | 154.80 | \$ | 1,304.80 | \$ | 4,897.90 | \$ | 91,565.80 | \$ | 4,716,441.32 | \$ | 6,815,489.36 | \$ | 6,629,529.24 | \$ | 5,539,733.77 |
| | ess: Exemption | | 454.00 | | 4 0 0 4 0 0 | | 4 007 00 | | 04 505 00 | | | | 0.045.400.00 | | 0.000 500 0.1 | ^ | E 500 300 33 |
| De | eemed Taxable Capital | \$ | 154.80 | \$ | 1,304.80 | \$ | 4,897.90 | \$ | 91,565.80 | \$ | 4,716,441.32 | \$ | 6,815,489.36 | \$ | 6,629,529.24 | \$ | 5,539,733.77 |
| On | ntario Capital Tax Rate (from Sheet 3) | | 0.300% | | 0.225% | | 0.225% | | 0.225% | | 0.075% | | 0.000% | | 0.000% | | 0.000% |
| Ne | et Amount (Taxable Capital x Rate) | \$ | 0.46 | \$ | 2.94 | \$ | 11.02 | \$ | 206.02 | \$ | 3,537.33 | \$ | - | \$ | - | \$ | - |
| | | | | | | | | | | | | | | | | | |
| Ch | nange in Income Taxes Payable | \$ | 30.92 | \$ | 47.47 | -\$ | 7.75 | -\$ | 1,099.45 | -\$ | 73,593.89 | -\$ | 130,920.60 | -\$ | 79,022.43 | \$ | 6,163.98 |
| Ch | nange in OCT | \$ | 0.46 | \$ | 2.94 | \$ | 11.02 | \$ | 206.02 | \$ | 3,537.33 | \$ | - | \$ | - | \$ | - |
| PIL | Ls | \$ | 31.38 | \$ | 50.41 | \$ | 3.27 | -\$ | 893.43 | -\$ | 70,056.56 | -\$ | 130,920.60 | -\$ | 79,022.43 | \$ | 6,163.98 |
| | | | | | | | | | | | | | | | | | |
| Gross Up F | | | | | | | | | | | | | | | | | |
| - | ax Rate | • | 36.12% | • | 36.12% | • | 33.50% | <u>^</u> | 33.00% | ~ | 31.00% | • | 28.25% | • | 26.25% | • | 25.50% |
| | nange in Income Taxes Payable | \$ | 48.40 | \$ | 74.31 | -\$ | 11.65 | -\$ | 1,640.98 | -\$ | 106,657.81 | -\$ | 182,467.74 | -\$ | 107,149.06 | \$ | 8,273.81 |
| | nange in OCT | \$ | 0.46 | \$ | 2.94 | \$ | 11.02 | \$ | 206.02 | \$ | 3,537.33 | \$ | 400 407 74 | \$ | 407 4 40 00 | <u>\$</u> | 0.070.04 |
| PIL | LS | <u>\$</u> | 48.86 | \$ | 77.25 | -\$ | 0.63 | -\$ | 1,434.95 | -\$ | 103,120.48 | -\$ | 182,467.74 | -\$ | 107,149.06 | \$ | 8,273.81 |





This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

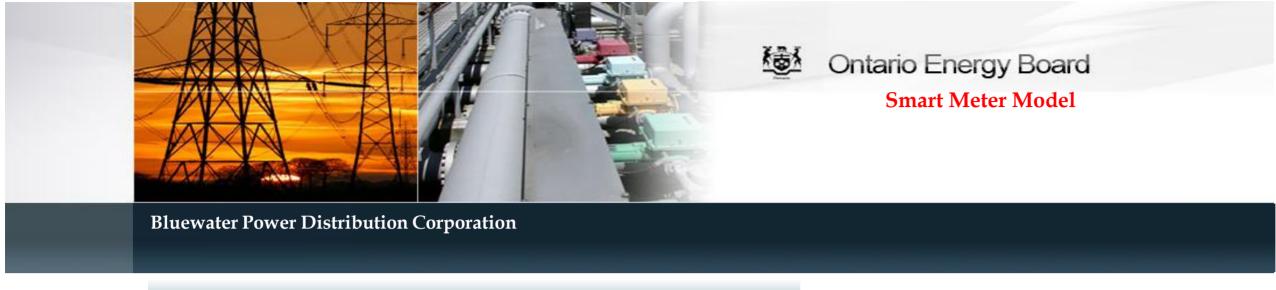
| Interest Rates | Approved Deferral and Variance Accounts | CWIP | Date | Year | Quarter | (| Opening Balance (Principal) | Funding Adder Revenues | Interest Rate | Interest | Clo | sing Balance | Annı |
|----------------|---|-------|--------|------|---------|----|--------------------------------|---------------------------|------------------|--------------|-----|--------------|------|
| 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 | \$ | - | \$ 51,594.92 | 4.59% | \$ - | \$ | 51,594.92 | |
| 2008 Q3 | 3.35% | 5.43% | Nov-06 | 2006 | Q4 | \$ | 51,594.92 | \$ 8,681.92 | 4.59% | \$ 197.35 | \$ | 60,474.19 | |
| 2008 Q4 | 3.35% | 5.43% | Dec-06 | 2006 | Q4 | \$ | 60,276.84 | \$ 8,317.66 | 4.59% | \$ 230.56 | \$ | 68,825.06 | \$ |
| 2009 Q1 | 2.45% | 6.61% | Jan-07 | 2007 | Q1 | \$ | 68,594.50 | \$ 12,914.46 | 4.59% | \$ 262.37 | \$ | 81,771.33 | |
| 2009 Q2 | 1.00% | 6.61% | Feb-07 | 2007 | Q1 | \$ | 81,508.96 | \$ 6,943.82 | 4.59% | \$ 311.77 | \$ | 88,764.55 | |
| 2009 Q3 | 0.55% | 5.67% | Mar-07 | 2007 | Q1 | \$ | 88,452.78 | \$ 12,169.04 | 4.59% | \$ 338.33 | \$ | 100,960.15 | |
| 2009 Q4 | 0.55% | 4.66% | Apr-07 | 2007 | Q2 | \$ | 100,621.82 | \$ 7,242.56 | 4.59% | \$ 384.88 | \$ | 108,249.26 | |
| 2010 Q1 | 0.55% | 4.34% | May-07 | 2007 | Q2 | \$ | 107,864.38 | \$ 7,242.56 | 4.59% | \$ 412.58 | \$ | 115,519.52 | |
| 2010 Q2 | 0.55% | 4.34% | Jun-07 | 2007 | Q2 | \$ | 115,106.94 | \$ 11,934.00 | 4.59% | \$ 440.28 | \$ | 127,481.22 | |
| 2010 Q3 | 0.89% | 4.66% | Jul-07 | 2007 | Q3 | \$ | 127,040.94 | \$ 11,431.16 | 4.59% | \$ 485.93 | \$ | 138,958.03 | |
| 2010 Q4 | 1.20% | 4.01% | Aug-07 | 2007 | Q3 | \$ | 138,472.10 | \$ 9,261.20 | 4.59% | \$ 529.66 | \$ | 148,262.96 | |
| 2011 Q1 | 1.47% | 4.29% | Sep-07 | 2007 | Q3 | \$ | 147,733.30 | \$ 9,257.30 | 4.59% | \$ 565.08 | \$ | 157,555.68 | |
| 2011 Q2 | 1.47% | 4.29% | Oct-07 | 2007 | Q4 | \$ | 156,990.60 | \$ 10,174.32 | 5.14% | \$ 672.44 | \$ | 167,837.36 | |
| 2011 Q3 | 1.47% | 4.29% | Nov-07 | 2007 | Q4 | \$ | 167,164.92 | \$ 10,116.60 | 5.14% | \$ 716.02 | \$ | 177,997.54 | |
| 2011 Q4 | 1.47% | 3.92% | Dec-07 | 2007 | Q4 | \$ | 177,281.52 | \$ 7,990.58 | 5.14% | \$ 759.36 | \$ | 186,031.46 | \$ |
| 2012 Q1 | 1.47% | 3.92% | Jan-08 | 2008 | Q1 | \$ | 185,272.10 | \$ 12,540.06 | 5.14% | \$ 793.58 | \$ | 198,605.74 | |
| 2012 Q2 | 1.47% | 3.51% | Feb-08 | 2008 | Q1 | \$ | 197,812.16 | \$ 7,152.08 | 5.14% | \$ 847.30 | \$ | 205,811.54 | |
| 2012 Q3 | 1.47% | 3.51% | Mar-08 | 2008 | Q1 | \$ | 204,964.24 | \$ 10,315.50 | 5.14% | \$ 877.93 | \$ | 216,157.67 | |
| 2012 Q4 | 1.47% | 3.51% | Apr-08 | 2008 | Q2 | \$ | 215,279.74 | \$ 10,092.16 | 4.08% | \$ 731.95 | \$ | 226,103.85 | |
| 2013 Q1 | | | May-08 | 2008 | Q2 | \$ | 225,371.90 | \$ 10,260.12 | 4.08% | \$ 766.26 | \$ | 236,398.28 | |
| 2013 Q2 | | | Jun-08 | 2008 | Q2 | \$ | 235,632.02 | \$ 8,379.54 | 4.08% | \$ 801.15 | \$ | 244,812.71 | |
| 2013 Q3 | | | Jul-08 | 2008 | Q3 | \$ | 244,011.56 | \$ 12,026.30 | 3.35% | \$ 681.20 | \$ | 256,719.06 | |



Board Approved Smart Meter Funding Adder s (from Tariff)

nnual amounts

| 69,022.41 \$ 0.26 \$ 0.26 | | |
|--|------------|------------|
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| \$ 0.26 | | \$ 0.26 |



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

| | Approved Deferral | | | | | | | | | • • • | | | | | | | rd Approved Smart |
|----------------|--------------------------|------|--------|------|---------------|----|--------------------------------|----|---------------------------|------------------|----------|----|---------------|------|-------------|----|------------------------------------|
| Interest Rates | and Variance Accounts | CWIP | Date | Year | Quarter | 0 |)pening Balance (Principal) | 1 | Funding Adder Revenues | Interest Rate | Interest | CI | osing Balance | ۸nr | ual amounte | Me | ter Funding Adder (from Tariff) |
| 2013 Q4 | Accounts | | Aug-08 | 2008 | Quarter Q3 | \$ | 256,037.86 | \$ | 7,346.04 | 3.35% \$ | | | 264,098.67 | AIII | | \$ | 0.26 |
| 2010 Q1 | | | Sep-08 | 2008 | Q3 | \$ | 263,383.90 | | 7,861.88 | 3.35% \$ | | • | 271,981.06 | | | \$ | 0.26 |
| | | | Oct-08 | 2008 | Q4 | \$ | 271,245.78 | | 10,001.68 | 3.35% \$ | | - | 282,004.69 | | | \$ | 0.26 |
| | | | Nov-08 | 2008 | Q4 | \$ | 281,247.46 | | 9,384.18 | 3.35% \$ | | | 291,416.79 | | | \$ | 0.26 |
| | | | Dec-08 | 2008 | Q4 | \$ | 290,631.64 | | 11,311.56 | 3.35% \$ | | - | 302,754.55 | \$ | 125,974.25 | | 0.26 |
| | | | Jan-09 | 2009 | Q1 | \$ | 301,943.20 | | 13,109.72 | 2.45% \$ | | | 315,669.39 | | | \$ | 0.26 |
| | | | Feb-09 | 2009 | Q1 | \$ | 315,052.92 | \$ | 6,988.80 | 2.45% \$ | 643.23 | \$ | 322,684.95 | | | \$ | 0.26 |
| | | | Mar-09 | 2009 | Q1 | \$ | 322,041.72 | \$ | 11,554.92 | 2.45% \$ | 657.50 | \$ | 334,254.14 | | | \$ | 0.26 |
| | | | Apr-09 | 2009 | Q2 | \$ | 333,596.64 | \$ | 9,229.22 | 1.00% \$ | 278.00 | \$ | 343,103.86 | | | \$ | 0.26 |
| | | | May-09 | 2009 | Q2 | \$ | 342,825.86 | \$ | 10,430.94 | 1.00% \$ | 285.69 | \$ | 353,542.49 | | | \$ | 0.26 |
| | | | Jun-09 | 2009 | Q2 | \$ | 353,256.80 | \$ | 8,395.40 | 1.00% \$ | 294.38 | \$ | 361,946.58 | | | \$ | 0.26 |
| | | | Jul-09 | 2009 | Q3 | \$ | 361,652.20 | \$ | 12,393.94 | 0.55% \$ | 165.76 | \$ | 374,211.90 | | | \$ | 0.26 |
| | | | Aug-09 | 2009 | Q3 | \$ | 374,046.14 | \$ | 6,910.89 | 0.55% \$ | 171.44 | \$ | 381,128.47 | | | \$ | 0.26 |
| | | | Sep-09 | 2009 | Q3 | \$ | 380,957.03 | \$ | 10,621.43 | 0.55% \$ | 174.61 | \$ | 391,753.07 | | | \$ | 0.26 |
| | | | Oct-09 | 2009 | Q4 | \$ | 391,578.46 | \$ | 7,778.65 | 0.55% \$ | | \$ | 399,536.58 | | | \$ | 0.26 |
| | | | Nov-09 | 2009 | Q4 | \$ | 399,357.11 | | 9,981.80 | 0.55% \$ | | - | 409,521.95 | | | \$ | 0.26 |
| | | | Dec-09 | 2009 | Q4 | \$ | 409,338.91 | | 7,982.22 | 0.55% \$ | | | 417,508.74 | \$ | 119,215.13 | \$ | 0.26 |
| | | | Jan-10 | 2010 | Q1 | \$ | 417,321.13 | | 11,061.19 | 0.55% \$ | | | 428,573.59 | | | \$ | 0.26 |
| | | | Feb-10 | 2010 | Q1 | \$ | 428,382.32 | | 7,140.27 | 0.55% \$ | | - | 435,718.93 | | | \$ | 0.26 |
| | | | Mar-10 | 2010 | Q1 | \$ | 435,522.59 | | 12,231.77 | 0.55% \$ | | - | 447,953.97 | | | \$ | 0.26 |
| | | | Apr-10 | 2010 | Q2 | \$ | 447,754.36 | | 6,669.89 | 0.55% \$ | | | 454,629.47 | | | \$ | 0.26 |
| | | | May-10 | 2010 | Q2 | \$ | 454,424.25 | | 11,458.62 | 0.55% \$ | | | 466,091.15 | | | \$ | 1.00 |
| | | | Jun-10 | 2010 | Q2 | \$ | 465,882.87 | | 18,076.28 | 0.55% \$ | | | 484,172.68 | | | \$ | 1.00 |
| | | | Jul-10 | 2010 | Q3 | \$ | 483,959.15 | | 25,999.30 | 0.89% \$ | | | 510,317.39 | | | \$ | 1.00 |
| | | | Aug-10 | 2010 | Q3 | \$ | 509,958.45 | | 44,100.24 | 0.89% \$ | | | 554,436.91 | | | \$ | 1.00 |
| | | | Sep-10 | 2010 | Q3 | \$ | 554,058.69 | | 36,759.82 | 0.89% \$ | | - | 591,229.44 | | | \$ | 1.00 |
| | | | Oct-10 | 2010 | Q4 | \$ | 590,818.51 | | 33,008.31 | 1.20% \$ | | - | 624,417.64 | | | \$ | 1.00 |
| | | | Nov-10 | 2010 | Q4 | \$ | 623,826.82 | | 38,735.50 | 1.20% \$ | | | 663,186.15 | | | \$ | 1.00 |
| | | | Dec-10 | 2010 | Q4 | \$ | 662,562.32 | | 30,685.47 | 1.20% \$ | | | 693,910.35 | \$ | 280,166.21 | \$ | 1.00 |
| | | | Jan-11 | 2011 | Q1 | \$ | 693,247.79 | | 39,610.03 | 1.47% \$ | | | 733,707.05 | | | \$ | 1.00 |
| | | | Feb-11 | 2011 | Q1 | \$ | 732,857.82 | | 32,834.14 | 1.47% \$ | | - | 766,589.71 | | | \$ | 1.00 |
| | | | Mar-11 | 2011 | Q1 | \$ | 765,691.96 | \$ | 43,074.85 | 1.47% \$ | 937.97 | \$ | 809,704.78 | | | \$ | 1.00 |



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

| | Approved Deferral and Variance | CWIP | | | | c | Opening Balance | F | Funding Adder | Interest | | | | | | | | rd Approved Smart ter Funding Adder |
|----------------|-----------------------------------|------|---------|------|---------|----|-----------------|----|---------------|----------|----|----------|----|---------------|-----|--------------|----|--|
| Interest Rates | Accounts | | Date | Year | Quarter | | (Principal) | | Revenues | Rate | | Interest | | osing Balance | Ann | nual amounts | | (from Tariff) |
| | | | Apr-11 | 2011 | Q2 | \$ | 808,766.81 | | 28,584.13 | 1.47% | | 990.74 | | 838,341.68 | | | \$ | 1.00 |
| | | | May-11 | 2011 | Q2 | \$ | 837,350.94 | | 42,877.53 | 1.47% | | 1,025.75 | - | 881,254.22 | | | \$ | 2.00 |
| | | | Jun-11 | 2011 | Q2 | \$ | 880,228.47 | | 44,908.03 | 1.47% | | 1,078.28 | | 926,214.78 | | | \$ | 2.00 |
| | | | Jul-11 | 2011 | Q3 | \$ | 925,136.50 | | 79,077.03 | 1.47% | - | 1,133.29 | | 1,005,346.82 | | | \$ | 2.00 |
| | | | Aug-11 | 2011 | Q3 | \$ | 1,004,213.53 | | 66,740.57 | 1.47% | | 1,230.16 | | 1,072,184.26 | | | \$ | 2.00 |
| | | | Sep-11 | 2011 | Q3 | \$ | 1,070,954.10 | | 82,553.45 | 1.47% | | 1,311.92 | | 1,154,819.47 | | | \$ | 2.00 |
| | | | Oct-11 | 2011 | Q4 | \$ | 1,153,507.55 | | 55,003.17 | 1.47% | - | 1,413.05 | | 1,209,923.77 | | | \$ | 2.00 |
| | | | Nov-11 | 2011 | Q4 | \$ | 1,208,510.72 | \$ | 89,463.28 | 1.47% | \$ | 1,480.43 | \$ | 1,299,454.43 | | | \$ | 2.00 |
| | | | Dec-11 | 2011 | Q4 | \$ | 1,297,974.00 | \$ | 49,472.42 | 1.47% | \$ | 1,590.02 | \$ | 1,349,036.44 | \$ | 668,137.22 | \$ | 2.00 |
| | | | Jan-12 | 2012 | Q1 | \$ | 1,347,446.42 | \$ | 92,973.55 | 1.47% | \$ | 1,650.62 | \$ | 1,442,070.59 | | | \$ | 2.00 |
| | | | Feb-12 | 2012 | Q1 | \$ | 1,440,419.97 | \$ | 54,224.39 | 1.47% | \$ | 1,764.51 | \$ | 1,496,408.87 | | | \$ | 2.00 |
| | | | Mar-12 | 2012 | Q1 | \$ | 1,494,644.36 | \$ | 85,342.31 | 1.47% | \$ | 1,830.94 | \$ | 1,581,817.61 | | | \$ | 2.00 |
| | | | Apr-12 | 2012 | Q2 | \$ | 1,579,986.67 | \$ | 57,676.00 | 1.47% | \$ | 1,935.48 | \$ | 1,639,598.15 | | | \$ | 2.00 |
| | | | May-12 | 2012 | Q2 | \$ | 1,637,662.67 | \$ | 73,981.50 | 1.47% | \$ | 2,006.14 | \$ | 1,713,650.31 | | | | |
| | | | Jun-12 | 2012 | Q2 | \$ | 1,711,644.17 | \$ | 36,990.75 | 1.47% | \$ | 2,096.76 | \$ | 1,750,731.68 | | | | |
| | | | Jul-12 | 2012 | Q3 | \$ | 1,748,634.92 | | | 1.47% | \$ | 2,142.08 | \$ | 1,750,777.00 | | | | |
| | | | Aug-12 | 2012 | Q3 | \$ | 1,748,634.92 | | | 1.47% | \$ | 2,142.08 | \$ | 1,750,777.00 | | | | |
| | | | Sep-12 | | Q3 | \$ | 1,748,634.92 | | | 1.47% | \$ | 2,142.08 | \$ | 1,750,777.00 | | | | |
| | | | Oct-12 | 2012 | Q4 | \$ | 1,748,634.92 | | | 1.47% | \$ | 2,142.08 | \$ | 1,750,777.00 | | | | |
| | | | Nov-12 | 2012 | Q4 | \$ | 1,748,634.92 | | | 0.00% | \$ | - | \$ | 1,748,634.92 | | | | |
| | | | Dec-12 | 2012 | Q4 | \$ | 1,748,634.92 | | | 0.00% | \$ | - | \$ | 1,748,634.92 | \$ | 421,041.27 | | |
| | | | Jan-13 | 2013 | Q1 | \$ | 1,748,634.92 | | | 0.00% | \$ | - | \$ | 1,748,634.92 | | | | |
| | | | Feb-13 | 2013 | Q1 | \$ | 1,748,634.92 | | | 0.00% | \$ | - | \$ | 1,748,634.92 | | | | |
| | | | Mar-13 | 2013 | Q1 | \$ | 1,748,634.92 | | | 0.00% | | - | \$ | 1,748,634.92 | | | | |
| | | | Apr-13 | 2013 | Q2 | \$ | 1,748,634.92 | | | 0.00% | \$ | - | \$ | 1,748,634.92 | | | | |
| | | | May-13 | 2013 | Q2 | \$ | 1,748,634.92 | | | 0.00% | | - | \$ | 1,748,634.92 | | | | |
| | | | Jun-13 | 2013 | Q2 | \$ | 1,748,634.92 | | | 0.00% | - | _ | \$ | 1,748,634.92 | | | | |
| | | | Jul-13 | 2013 | Q3 | \$ | 1,748,634.92 | | | 0.00% | | _ | \$ | 1,748,634.92 | | | | |
| | | | Aug-13 | 2013 | Q3 | \$ | 1,748,634.92 | | | 0.00% | | _ | \$ | 1,748,634.92 | | | | |
| | | | Sep-13 | 2013 | Q3 | \$ | 1,748,634.92 | | | 0.00% | - | - | \$ | 1,748,634.92 | | | | |
| | | | Oct-13 | 2013 | Q4 | \$ | 1,748,634.92 | | | 0.00% | | - | \$ | 1,748,634.92 | | | _ | |
| | | | Nov-13 | | Q4 | \$ | 1,748,634.92 | | | 0.00% | - | _ | \$ | 1,748,634.92 | | | | |
| | | | 1101-10 | 2013 | 49 | Ψ | 1,740,004.02 | _ | | 0.0070 | Ψ | | Ψ | 1,740,004.02 | | | | |



| Interest Rates | Approved Deferral and Variance Accounts | CWIP | Date Dec-13 | Year 2013 | Quarter Q4 | 0 \$ | Ppening Balance (Principal) 1,748,634.92 | unding Adder Revenues | Interest Rate FALSE | \$ Interest_ | Clo \$ | osing Balance 1,748,634.92 | าทน |
|----------------|---|------|----------------|---------------------|----------------------|---------|---|------------------------------|---------------------------|-----------------|-----------|-------------------------------|---------|
| | | | Total Fund | ing Ad | der Reve | nue | s Collected | \$ 1,748,634.92 | - | \$ 57,477.87 | \$ | 1,806,112.79 | \$ 1 |



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

| 2006 Q1 0.00% 0.00% Jan-06 2006 Q1 S - - 0.00% 2006 Q2 4.14% 4.68% Feb-06 2006 Q2 - - 0.00% 2006 Q3 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 1.590.19 5 - 1.590.19 4.14% 2007 Q3 4.59% 518% Jun-06 2006 Q2 1.590.19 \$ - 1.590.19 4.59% 2008 Q2 4.68% 518% Sep-06 2006 Q2 1.590.19 \$ - 1.590.19 4.59% 2008 Q2 1.00% 661% Sep-06 2006 Q2 1.590.19 \$ 1.205.51 13.318.81 4.59% 2008 Q2 1.00% 661% Dec-06 2007 Q7 13.456.32 \$ 274.95 14.427.24 | 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 | Inte o ba |
|--|---------------------------------|--|-------|--------|------|---------|--------------------------------|---------------|---|--------------------------------|------------------------------|-----------------|
| 2006 G3 4.59% 5.05% Mar-06 2008 0.1 - 0.00% 2007 G1 4.59% 4.72% Mar-06 2006 02 - \$ 1.500.19 1.500.19 4.14% 2007 G2 4.59% 4.72% Jun-06 2006 02 - \$ 1.500.19 4.14% 2007 G2 4.59% 5.18% Aug-06 2008 03 1.590.19 \$ - 1.590.19 4.14% 2007 G4 5.14% 5.18% Aug-06 2008 03 1.590.19 \$ - 1.590.19 4.59% 2008 G3 3.35% 5.43% Nov-06 2008 04 12,033.0 \$ 1.285.51 13,318.81 4.59% 2008 G2 1.00% 6.61% Jan-07 2007 01 13,458.32 \$ 241.02 13,697.34 4.59% 2009 G1 2.45% 6.61% Jan-07 2007 01 13,972.29 \$ 274.95 14,247.24 | 2006 Q1 | 0.00% | 0.00% | Jan-06 | 2006 | Q1 | \$ - | | | - | 0.00% | |
| 2006 04 4.59% 4.72% Apr-06 2006 0.2 - \$ 1,590.19 1,590.19 4.14% 2007 01 4.59% 4.72% Jun-06 2006 0.2 1,590.19 \$ 1,590.19 4.14% 2007 03 4.59% 5.18% Jul-06 2006 0.3 1,590.19 \$. 1,590.19 4.6% 2007 04 5.14% 5.18% Aug-06 2006 0.3 1,590.19 \$. 1,590.19 4.59% 2008 02 4.08% 5.18% Oct-06 2006 0.4 1,590.19 \$ 10.43.11 12.03.30 4.59% 2008 02 4.08% 5.18% Oct-06 2006 0.4 13.318.81 \$ 120.51 \$ 17.00 13.466.32 4.59% 2008 02 1.00% 6.61% Jan-07 2007 0.1 13.697.34 \$ 274.95 13.997.29 4.59% 2009 02 1.00% 6.61% Apr-07 207 0.1 13.697.34 \$ 274.95 14.247.24 4.59% 2009 02 0.55% 4.34% May-07 207 0.2 | 2006 Q2 | 4.14% | 4.68% | Feb-06 | 2006 | Q1 | - | | | - | 0.00% | |
| 2007 Q1 4.59% 4.72% May-06 2006 Q2 1.500.19 | 2006 Q3 | 4.59% | 5.05% | Mar-06 | 2006 | Q1 | - | | | - | 0.00% | |
| 2007 O2 4.59% 4.72% Jun-06 2006 Q2 1.590.19 \$ - 1,590.19 4.14% 2007 O3 4.59% 5.18% Jul-06 2006 Q3 1,590.19 \$ - 1,590.19 4.59% 2007 O4 5.14% 5.18% Aug-06 2006 Q3 1,590.19 \$ - 1,590.19 4.59% 2008 O1 5.14% 5.18% Oct-06 2006 Q4 1,590.19 \$ 1,590.19 4.59% 2008 O2 4.08% 5.18% Oct-06 2006 Q4 1,301.81 \$ 12,033.30 4.59% 2008 O3 3.35% 5.43% Dec-06 2006 Q4 13,318.81 \$ 120.51 \$ 17.00 13,656.32 4.59% 2009 O2 1.00% 6.61% Jan-07 2007 Q1 13,697.34 \$ 274.95 13,972.29 4.59% 2009 O4 0.55% 4.66% Api-07 2007 Q2 16,142.16 \$ 2,385.51 16,22.19 4.59% 2010 O2 | 2006 Q4 | 4.59% | 4.72% | Apr-06 | 2006 | Q2 | - | | | - | 4.14% | |
| 2007 Q3 4.59% 5.18% Jul-06 2008 Q3 1.590.19 \$ - 1.590.19 4.59% 2007 Q4 5.14% 5.18% Aug-06 2006 Q3 1.590.19 \$ - 1.590.19 4.59% 2008 Q2 4.08% 5.18% Oct-06 2006 Q4 1.590.19 \$ 1.590.19 4.59% 2008 Q3 3.35% 5.43% Dec-06 2006 Q4 12.03.30 \$ 1.285.51 12.033.30 4.59% 2009 Q1 2.45% 6.61% Jan-07 2007 Q1 13.466.32 \$ 241.02 13.468.32 4.59% 2009 Q2 1.00% 6.61% Jan-07 2007 Q1 13.475.34 274.95 14.247.24 4.59% 2009 Q3 0.55% 4.34% May-07 2007 Q2 14.247.24 \$ 274.95 14.247.24 4.59% 2010 Q1 0.55% 4.34% Jun-07 2007 Q2 14.247.24 \$ 274.95 16.142.16 4.59% 2010 Q3 0.89% | 2007 Q1 | 4.59% | 4.72% | May-06 | 2006 | Q2 | - | \$ 1,590.19 | | 1,590.19 | 4.14% | |
| 2007 Q4 5.14% 5.18% Aug-06 2008 0.3 1,590.19 \$ - 1,590.19 4,59% 2008 Q1 5.14% 5.18% Octo6 2008 0.3 1,590.19 \$ - 1,590.19 4,59% 2008 Q2 4.08% 5.18% Octo6 2006 0.4 1,590.19 \$ 1,443.11 1 1,590.19 4,59% 2008 Q3 3.35% 5.43% Nov-06 2006 0.4 13,318.81 \$ 12.033.30 \$ 1,346.32 4,59% 2009 Q1 2.45% 6.61% Jan-07 2007 0.1 13,697.34 \$ 274.95 13,972.29 4,59% 2009 Q3 0.55% 5.67% Mar-07 2007 0.2 14,522.19 \$ 16,19.97 16,142.16 4,59% 2010 Q1 0.55% 4.66% Jun-07 2007 0.3 18,57.67 3,946.02 22,473.69 4,59% 2010 Q2 0.55% 4.34% Jun-07 2007 0.3 22,473.69 13,26.67 23,800.36 5 6,530.3 | 2007 Q2 | 4.59% | 4.72% | Jun-06 | 2006 | Q2 | 1,590.19 | \$ - | | 1,590.19 | 4.14% | |
| 2008 Q1 5.14% 5.18% Sep-06 2008 Q2 1,590.19 \$ 1,590.19 \$ 1,590.19 \$ 1,203.30 4,59% 2008 Q2 4.08% 5.18% Oct-06 2006 0.4 1,203.30 \$ 1,203.30 4,59% 2008 Q3 3.35% 5.43% Dec-06 2006 0.4 13,318.81 \$ 12,033.30 4,59% 2009 Q1 2.45% 6.61% Feb-07 2007 0.1 13,456.32 \$ 241.02 13,697.34 4,59% 2009 Q2 1.00% 6.61% Feb-07 2007 0.1 13,873.4\$ \$ 274.95 13,697.34 4,59% 2009 Q3 0.55% 5.67% Mar-07 2007 0.2 14,247.24 \$ 274.95 14,522.19 4,59% 2010 Q2 0.55% 4.34% Mar-07 2007 0.2 14,527.67 16,142.16 4,52% 2010 Q2 0.55% 4.34% Jun-07 2007 0.3 28,276.67 3.946.02 22,473.69 4,59% 2011 Q2 1.47% | 2007 Q3 | 4.59% | 5.18% | Jul-06 | 2006 | Q3 | 1,590.19 | \$ - | | 1,590.19 | 4.59% | |
| 2008 Q2 4.08% 5.18% Oct-06 2006 0.4 1,590.19 \$ 10,443.11 12,033.30 4.59% 2008 Q3 3.35% 5.43% Nov-06 2006 0.4 12,033.30 \$ 1,285.51 13,318.81 4.59% 2009 Q1 2.45% 6.61% Jan-07 2007 0.1 13,466.32 \$ 241.02 13,972.29 4.59% 2009 Q2 1.00% 6.61% Feb-07 2007 0.1 13,972.29 \$ 274.95 14,247.24 4.59% 2009 Q4 0.55% 4.66% Apr-07 2007 0.2 14,247.24 \$ 274.95 14,4247.24 4.59% 2010 Q1 0.55% 4.36% May-07 2007 0.2 14,247.24 \$ 2,385.51 18,527.67 18,527.67 4.59% 2010 Q2 0.55% 4.36% Jun-07 2007 0.3 22,867.67 3,3946.02 23,800.36 4.59% 2011 Q2 1.47% 4.29% Sep-07 2007 0.3 23,800.36 6,530.35 30,30.71 4.59% 2011 Q2 1.47% 4.29% <t< td=""><td>2007 Q4</td><td>5.14%</td><td>5.18%</td><td>Aug-06</td><td>2006</td><td>Q3</td><td>1,590.19</td><td>\$ -</td><td></td><td>1,590.19</td><td>4.59%</td><td></td></t<> | 2007 Q4 | 5.14% | 5.18% | Aug-06 | 2006 | Q3 | 1,590.19 | \$ - | | 1,590.19 | 4.59% | |
| 2008 Q3 3.35% 5.43% Nov-06 2006 0.4 12,033.30 \$ 1,285.51 13,318.81 4.59% 2008 Q4 3.35% 5.43% Dec-06 2006 0.4 13,318.81 \$ 12,051 \$ 17,00 13,466.32 4.59% 2009 Q1 2.45% 6.61% Jan-07 2007 0.1 13,466.32 \$ 241.02 13,97.34 4.59% 2009 Q2 1.00% 6.61% Feb-07 2007 0.1 13,697.34 \$ 274.95 13,972.29 4.59% 2009 Q4 0.55% 4.66% Apr-07 2007 0.2 14,247.24 \$ 274.95 14,522.19 4.59% 2010 Q1 0.55% 4.34% May-07 2007 0.2 16,142.16 \$ 2,385.51 16,142.16 4.59% 2010 Q3 0.89% 4.66% Jul-07 2007 0.3 23,807.67 \$ 3,946.02 22,473.69 4.59% 2011 Q4 1.20% Aug-07 2007 0.3 23,800.36 6,563.03 2 30,30.71 4.59% 2011 Q2 1.47% 4.29% Sep-07< | 2008 Q1 | 5.14% | 5.18% | Sep-06 | 2006 | Q3 | 1,590.19 | \$ - | | 1,590.19 | 4.59% | |
| 2008 Q4 3.35% 5.43% Dec-06 2006 Q4 13.318.81 \$ 120.51 \$ 17.00 13.456.32 4.59% 2009 Q1 2.45% 6.61% Jan-07 2007 Q1 13.456.32 \$ 241.02 13.697.34 4.59% 2009 Q2 1.00% 6.61% Feb-07 2007 Q1 13.972.29 \$ 274.95 13.972.29 4.59% 2009 Q4 0.55% 5.67% Mar-07 2007 Q2 14.247.24 \$ 274.95 14.247.24 4.59% 2010 Q1 0.55% 4.34% Mar-07 2007 Q2 14.247.24 \$ 2.8551 16.142.16 4.59% 2010 Q3 0.89% 4.66% Jun-07 2007 Q3 18.527.67 \$ 3.946.02 22.473.69 4.59% 2011 Q3 0.89% 4.66% Jul-07 2007 Q3 23.800.36 \$ 6.530.35 30.330.71 4.59% 2011 Q2 1.47% 4.29% Oct-07 2007 Q4 30.896.44 \$ 1.42.18 32.218.27 \$ 1.4% 2011 Q2 1.47% 3.29% Jan-08 <td>2008 Q2</td> <td>4.08%</td> <td>5.18%</td> <td>Oct-06</td> <td>2006</td> <td>Q4</td> <td>1,590.19</td> <td>\$ 10,443.11</td> <td></td> <td>12,033.30</td> <td>4.59%</td> <td></td> | 2008 Q2 | 4.08% | 5.18% | Oct-06 | 2006 | Q4 | 1,590.19 | \$ 10,443.11 | | 12,033.30 | 4.59% | |
| 2009 Q1 2.45% 6.61% Jan-07 2007 01 13,456.32 \$ 241.02 13,697.34 4.59% 2009 Q2 1.00% 6.61% Feb-07 2007 01 13,697.34 \$ 274.95 13,972.29 4.59% 2009 Q3 0.55% 5.67% Mar-07 2007 01 13,972.29 \$ 274.95 14,247.24 4.59% 2010 Q1 0.55% 4.34% May-07 2007 02 14,247.24 \$ 2,385.51 16,142.16 4.59% 2010 Q2 0.55% 4.34% Jun-07 2007 03 18,527.67 \$ 3,946.02 22,473.69 22,473.69 22,473.69 22,473.69 30,30.71 4.59% 2010 Q4 1.20% 4.01% Aug-07 2007 03 22,473.69 \$ 13,26.67 23,800.36 4.59% 30,330.71 4.59% 2011 Q2 1.47% 4.29% Oct-07 2007 04 30,307.1 \$ 565.73 30,896.44 5.14% 2011 Q2 1.47% 4.29% Oct-07 2007 04 30,397.752 1001.85 30,377.52 | 2008 Q3 | 3.35% | 5.43% | Nov-06 | 2006 | Q4 | 12,033.30 | \$ 1,285.51 | | 13,318.81 | 4.59% | |
| 2009 Q2 1.00% 6.61% Feb-07 2007 01 13.697.34 \$ 274.95 14.247.24 4.59% 2009 Q3 0.55% 5.67% Mar-07 2007 01 13.972.29 \$ 274.95 14.247.24 4.59% 2010 Q1 0.55% 4.66% Apr-07 2007 02 14.247.24 \$ 274.95 14.522.19 4.59% 2010 Q1 0.55% 4.34% May-07 2007 02 14.521.9 \$ 1619.97 16.142.16 4.59% 2010 Q2 0.55% 4.34% Jun-07 2007 02 16.142.16 \$ 2,385.51 16.142.16 4.59% 2010 Q3 0.89% 4.66% Jul-07 2007 03 18.527.67 \$ 3,946.02 22,473.69 4.59% 2011 Q1 1.47% 4.29% Sep-07 2007 03 23.800.36 6.530.35 30.330.71 4.59% 2011 Q1 1.47% 4.29% Nov-07 2007 Q4 30.894.44 \$ 1.321.83 30.330.71 4.59% 2011 Q1 1.47% 3.92% Jan-08 2008 | 2008 Q4 | 3.35% | 5.43% | Dec-06 | 2006 | Q4 | 13,318.81 | \$ 120.51 | \$ 17.00 | 13,456.32 | 4.59% | |
| 2009 Q3 0.55% 5.67% Mar-07 2007 0.1 13.972.29 \$ 274.95 14.247.24 4.59% 2009 Q4 0.55% 4.66% Apr-07 2007 0.2 14.247.24 \$ 274.95 14.522.19 4.59% 2010 Q1 0.55% 4.34% May-07 2007 0.2 14.522.19 \$ 1.619.97 16.142.16 4.59% 2010 Q2 0.55% 4.34% Jun-07 2007 0.2 16.142.16 \$ 2.385.51 18.527.67 4.59% 2010 Q4 1.20% 4.01% Aug-07 2007 0.3 18.527.67 \$ 3.946.02 22.473.69 4.59% 2011 Q4 1.47% 4.29% Sep-07 2007 0.3 22.473.69 \$ 1.326.67 23.800.36 4.59% 2011 Q1 1.47% 4.29% Sep-07 2007 0.3 23.800.36 \$ 6.530.35 30.330.71 4.59% 2011 Q3 1.47% 3.92% Dec-07 2007 0.4 30.896.44 \$ 1.321.83 32.218.27 \$ 1.4% 2012 Q1 1.47% 3.92% Dec-07 | 2009 Q1 | 2.45% | 6.61% | Jan-07 | 2007 | Q1 | 13,456.32 | \$ 241.02 | | 13,697.34 | 4.59% | |
| 2009 Q4 0.55% 4.66% Apr-07 2007 Q2 14,247.24 \$ 274.95 14,522.19 4.59% 2010 Q1 0.55% 4.34% Jun-07 2007 Q2 14,522.19 \$ 1,619.97 16,142.16 4.59% 2010 Q2 0.55% 4.34% Jun-07 2007 Q2 16,142.16 \$ 2,385.51 18,527.67 4.59% 2010 Q3 0.89% 4.66% Jul-07 2007 Q3 18,527.67 \$ 3,946.02 22,473.69 4.59% 2011 Q4 1.20% 4.01% Aug-07 2007 Q3 22,473.69 \$ 1,326.67 23,800.36 4.59% 2011 Q1 1.47% 4.29% Sep-07 2007 Q3 23,800.36 6,503.35 30,330.71 4.59% 2011 Q2 1.47% 4.29% Nov-07 2007 Q4 30,380.71 \$ 565.73 30,380.644 5.14% 2011 Q3 1.47% 3.92% Dec-07 2007 Q4 30,397.52 \$ 1,001.85 40,379.37 5.14% 2012 Q1 1.47% 3.92% Dec-07 2007< | 2009 Q2 | 1.00% | 6.61% | Feb-07 | 2007 | Q1 | 13,697.34 | \$ 274.95 | | 13,972.29 | 4.59% | |
| 2010 Q1 0.55% 4.34% May-07 2007 Q2 14,522.19 \$ 1,619.97 16,142.16 4.59% 2010 Q2 0.55% 4.34% Jun-07 2007 Q2 16,142.16 \$ 2,385.51 18,527.67 4.59% 2010 Q3 0.89% 4.66% Jul-07 2007 Q3 18,527.67 \$ 3,946.02 22,473.69 4.59% 2011 Q4 1.20% 4.01% Aug-07 2007 Q3 22,473.69 \$ 1,326.67 23,800.36 4.59% 2011 Q2 1.47% 4.29% Sep-07 2007 Q3 23,800.36 6,530.35 30,896.44 5.14% 2011 Q3 1.47% 4.29% Nov-07 2007 Q4 30,896.44 \$ 1,321.83 32,218.27 5.14% 2012 Q1 1.47% 3.92% Dec-07 2007 Q4 30,896.44 \$ 1,321.83 40,379.37 5 2,969.325 \$ 166.00 39,377.52 5.14% 2012 Q1 1.47% 3.92% Dec-07 2007 Q4 30,371.52 \$ 1,001.85 40,379.37 5.14% 40,379.37 5.14% </td <td>2009 Q3</td> <td>0.55%</td> <td>5.67%</td> <td>Mar-07</td> <td>2007</td> <td>Q1</td> <td>13,972.29</td> <td>\$ 274.95</td> <td></td> <td>14,247.24</td> <td>4.59%</td> <td></td> | 2009 Q3 | 0.55% | 5.67% | Mar-07 | 2007 | Q1 | 13,972.29 | \$ 274.95 | | 14,247.24 | 4.59% | |
| 2010 Q2 0.55% 4.34% Jun-07 2007 Q2 16,142.16 \$ 2,385.51 11,527.67 4.59% 2010 Q3 0.89% 4.66% Jul-07 2007 Q3 18,527.67 \$ 3,946.02 22,473.69 4.59% 2010 Q4 1.20% 4.01% Aug-07 2007 Q3 22,473.69 \$ 1,326.67 23,800.36 4.59% 2011 Q1 1.47% 4.29% Sep-07 2007 Q3 23,800.36 6,630.35 30,330.71 4.59% 2011 Q2 1.47% 4.29% Oct-07 2007 Q4 30,330.71 \$ 565.73 30,896.44 5.14% 2011 Q4 1.47% 3.92% Dec-07 2007 Q4 32,218.27 \$ 6,993.25 \$ 166.00 39,377.52 5.14% 2012 Q1 1.47% 3.92% Jan-08 2008 Q1 40,379.37 \$ 2,996.92 43,376.29 5.14% 2012 Q2 1.47% 3.51% Mar-08 2008 Q1 43,376.29 \$ 2,340.57 45,716.86 5 986.29 46,703.15 45,716.86 5 14% | 2009 Q4 | 0.55% | 4.66% | Apr-07 | 2007 | Q2 | 14,247.24 | \$ 274.95 | | 14,522.19 | 4.59% | |
| 2010 Q3 0.89% 4.66% Jul-07 2007 Q3 18,527.67 \$ 3,946.02 22,473.69 4.59% 2010 Q4 1.20% 4.01% Aug-07 2007 Q3 22,473.69 \$ 1,326.67 23,800.36 4.59% 2011 Q1 1.47% 4.29% Sep-07 2007 Q3 23,800.36 \$ 6,530.35 30,330.71 4.59% 2011 Q2 1.47% 4.29% Oct-07 2007 Q4 30,330.71 \$ 565.73 30,896.44 5.14% 2011 Q3 1.47% 4.29% Nov-07 2007 Q4 30,896.44 \$ 1,321.83 32,218.27 5.14% 2012 Q1 1.47% 3.92% Dec-07 2007 Q4 32,218.27 \$ 1,001.85 40,379.37 5.14% 2012 Q2 1.47% 3.92% Jan-08 2008 Q1 40,379.37 \$ 2,996.92 45,716.86 5.14% 2012 Q3 1.47% 3.51% Mar-08 2008 Q2 45,716.86 986.29 46,703.15 40,874 2013 Q1 0.00% 0.00% May-08 2008< | 2010 Q1 | 0.55% | 4.34% | May-07 | 2007 | Q2 | 14,522.19 | \$ 1,619.97 | | 16,142.16 | 4.59% | |
| 2010 Q4 1.20% 4.01% Aug-07 2007 Q3 22,473.69 \$ 1,326.67 23,800.36 4.59% 2011 Q1 1.47% 4.29% Sep-07 2007 Q3 23,800.36 \$ 6,530.35 30,330.71 4.59% 2011 Q2 1.47% 4.29% Oct-07 2007 Q4 30,330.71 \$ 565.73 30,896.44 5.14% 2011 Q3 1.47% 4.29% Nov-07 2007 Q4 30,896.44 \$ 1,321.83 32,218.27 5.14% 2012 Q1 1.47% 3.92% Dec-07 2007 Q4 32,218.27 \$ 6,993.25 \$ 166.00 39,377.52 5.14% 2012 Q1 1.47% 3.92% Jan-08 2008 Q1 39,377.52 \$ 1,001.85 40,379.37 5.14% 2012 Q2 1.47% 3.51% Feb-08 2008 Q1 43,376.29 2 45,716.86 \$ 986.29 44,771.686 5.14% 2012 Q4 1.47% 3.51% Apr-08 2008 Q2 45,716.86 \$ 986.29 46,703.15 4.08% 45,716.86 5.944.29 | 2010 Q2 | 0.55% | 4.34% | Jun-07 | 2007 | Q2 | 16,142.16 | \$ 2,385.51 | | 18,527.67 | 4.59% | |
| 2011 Q1 1.47% 4.29% Sep-07 207 Q3 23,800,36 \$6,530,35 30,330,71 4.59% 2011 Q2 1.47% 4.29% Oct-07 2007 Q4 30,330,71 \$565,73 30,896,44 5.14% 2011 Q3 1.47% 4.29% Nov-07 2007 Q4 30,896,44 \$1,321,83 32,218,27 5.14% 2011 Q4 1.47% 3.92% Dec-07 2007 Q4 32,218,27 \$166,00 39,377,52 \$14% 2012 Q1 1.47% 3.92% Jan-08 2008 Q1 39,377,52 \$14% 2012 Q2 1.47% 3.51% Feb-08 2008 Q1 40,379,37 \$14% 2012 Q3 1.47% 3.51% Mar-08 2008 Q1 43,376,29 \$14% 2013 Q1 0.00% 0.00% May-08 2008 Q2 46,703,15 \$2,881,14 49,584,29 4,08% 2013 Q2 0.00% 0.00% Jul-08 2008 Q3 50,844,25 4,08% 2013 Q4 0.00% 0.00% <td< td=""><td>2010 Q3</td><td>0.89%</td><td>4.66%</td><td>Jul-07</td><td>2007</td><td>Q3</td><td>18,527.67</td><td>\$ 3,946.02</td><td></td><td>22,473.69</td><td>4.59%</td><td></td></td<> | 2010 Q3 | 0.89% | 4.66% | Jul-07 | 2007 | Q3 | 18,527.67 | \$ 3,946.02 | | 22,473.69 | 4.59% | |
| 2011 Q2 1.47% 4.29% Oct-07 2007 Q4 30,330.71 \$ 565.73 30,896.44 5.14% 2011 Q3 1.47% 4.29% Nov-07 2007 Q4 30,896.44 \$ 1,321.83 32,218.27 5.14% 2011 Q4 1.47% 3.92% Dec-07 2007 Q4 32,218.27 \$ 6,993.25 \$ 166.00 39,377.52 5.14% 2012 Q1 1.47% 3.92% Jan-08 2008 Q1 39,377.52 \$ 1,001.85 40,379.37 5.14% 2012 Q2 1.47% 3.51% Feb-08 2008 Q1 43,376.29 \$ 2,340.57 45,716.86 5.14% 2012 Q3 1.47% 3.51% Mar-08 2008 Q1 43,376.29 \$ 2,340.57 45,716.86 5.14% 2012 Q4 1.47% 3.51% Apr-08 2008 Q2 45,716.86 \$ 986.29 46,703.15 4.08% 2013 Q1 0.00% 0.00% May-08 2008 Q2 49,584.29 \$ 1,259.96 50,844.25 4.08% 2013 Q2 0.00% 0.00% Ju | 2010 Q4 | 1.20% | 4.01% | Aug-07 | 2007 | Q3 | 22,473.69 | \$ 1,326.67 | | 23,800.36 | 4.59% | |
| 2011 Q31.47%4.29%Nov-072007Q430,896.44\$ 1,321.8332,218.275.14%2011 Q41.47%3.92%Dec-072007Q432,218.27\$ 6,993.25\$ 166.0039,377.525.14%2012 Q11.47%3.92%Jan-082008Q139,377.52\$ 1,001.8540,379.375.14%2012 Q21.47%3.51%Feb-082008Q140,379.37\$ 2,996.9243,376.295.14%2012 Q31.47%3.51%Mar-082008Q143,376.29\$ 2,340.5745,716.865.14%2012 Q41.47%3.51%Mar-082008Q245,716.86\$ 986.2946,703.154.08%2013 Q10.00%0.00%May-082008Q249,584.29\$ 2,881.1449,584.294.08%2013 Q20.00%0.00%Jun-082008Q350,844.25\$ 1,720.2352,564.483.35%2013 Q40.00%0.00%Aug-082008Q352,564.48\$ 1,500.8254,065.3054,065.303.35%2013 Q40.00%0.00%Aug-082008Q354,065.30\$ 756.7454,822.043.35% | 2011 Q1 | 1.47% | 4.29% | Sep-07 | 2007 | Q3 | 23,800.36 | \$ 6,530.35 | | 30,330.71 | 4.59% | |
| 2011 Q41.47%3.92%Dec-072007Q432,218.27\$6,993.25\$166.0039,377.525.14%2012 Q11.47%3.92%Jan-082008Q139,377.52\$1.001.8540,379.375.14%2012 Q21.47%3.51%Feb-082008Q140,379.37\$2,996.9243,376.295.14%2012 Q31.47%3.51%Mar-082008Q143,376.29\$45,716.865.14%2012 Q41.47%3.51%Apr-082008Q245,716.86\$986.2946,703.154.08%2013 Q10.00%0.00%May-082008Q246,703.15\$2,881.1449,584.294.08%2013 Q20.00%0.00%Jun-082008Q350,844.25\$1,720.23552,564.483.35%2013 Q30.00%0.00%Jul-082008Q352,564.48\$1,500.82554,065.303.35%2013 Q40.00%0.00%Aug-082008Q354,065.30\$756.7454,822.043.35% | 2011 Q2 | 1.47% | 4.29% | Oct-07 | 2007 | Q4 | 30,330.71 | \$ 565.73 | | 30,896.44 | 5.14% | |
| 2012 Q11.47%3.92%Jan-082008Q139,377.52\$ 1,001.8540,379.375.14%2012 Q21.47%3.51%Feb-082008Q140,379.37\$ 2,996.9243,376.295.14%2012 Q31.47%3.51%Mar-082008Q143,376.29\$ 2,340.5745,716.865.14%2012 Q41.47%3.51%Apr-082008Q245,716.86\$ 986.2946,703.1540,879.375.14%2013 Q10.00%0.00%May-082008Q246,703.15\$ 2,881.1449,584.2940.8%2013 Q20.00%0.00%Jun-082008Q249,584.29\$ 1,259.9650,844.254.08%2013 Q30.00%0.00%Jul-082008Q350,844.25\$ 1,720.2352,564.483.35%2013 Q40.00%0.00%Aug-082008Q354,65.30\$ 756.7454,822.043.35% | 2011 Q3 | 1.47% | 4.29% | Nov-07 | 2007 | Q4 | 30,896.44 | \$ 1,321.83 | | 32,218.27 | 5.14% | |
| 2012 Q2 1.47% 3.51% Feb-08 2008 Q1 40,379.37 \$ 2,996.92 43,376.29 5.14% 2012 Q3 1.47% 3.51% Mar-08 2008 Q1 43,376.29 \$ 2,340.57 45,716.86 5.14% 2012 Q4 1.47% 3.51% Apr-08 2008 Q2 45,716.86 \$ 986.29 46,703.15 4.08% 2013 Q1 0.00% 0.00% May-08 2008 Q2 46,703.15 \$ 2,881.14 49,584.29 4.08% 2013 Q2 0.00% 0.00% Jun-08 2008 Q2 49,584.29 \$ 1,259.96 50,844.25 4.08% 2013 Q3 0.00% 0.00% Jul-08 2008 Q3 50,844.25 \$ 1,720.23 52,564.48 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 52,564.48 \$ 1,500.82 54,065.30 54,065.30 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 54,065.30 \$ 7,56.74 54,822.04 3.35% | 2011 Q4 | 1.47% | 3.92% | Dec-07 | 2007 | Q4 | 32,218.27 | \$ 6,993.25 | \$ 166.00 | 39,377.52 | 5.14% | |
| 2012 Q3 1.47% 3.51% Mar-08 2008 Q1 43,376.29 \$ 2,340.57 45,716.86 5.14% 2012 Q4 1.47% 3.51% Apr-08 2008 Q2 45,716.86 \$ 986.29 46,703.15 408% 2013 Q1 0.00% 0.00% May-08 2008 Q2 46,703.15 \$ 2,881.14 49,584.29 4.08% 2013 Q2 0.00% 0.00% Jun-08 2008 Q2 49,584.29 \$ 1,259.96 50,844.25 4.08% 2013 Q3 0.00% 0.00% Jul-08 2008 Q3 50,844.25 \$ 1,720.23 52,564.48 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 52,564.48 \$ 1,500.82 54,065.30 54,065.30 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 54,065.30 \$ 756.74 54,822.04 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 54,065.30 \$ 756.74 54,822.04 3.35% | 2012 Q1 | 1.47% | 3.92% | Jan-08 | 2008 | Q1 | 39,377.52 | \$ 1,001.85 | | 40,379.37 | 5.14% | |
| 2012 Q41.47%3.51%Apr-082008Q245,716.86\$ 986.2946,703.154.08%2013 Q10.00%0.00%May-082008Q246,703.15\$ 2,881.1449,584.2940.8%2013 Q20.00%0.00%Jun-082008Q249,584.29\$ 1,259.9650,844.254.08%2013 Q30.00%0.00%Jul-082008Q350,844.25\$ 1,720.2352,564.483.35%2013 Q40.00%0.00%Aug-082008Q352,564.48\$ 1,500.8254,065.303.35%2013 Q40.00%0.00%Aug-082008Q354,065.30\$ 756.7454,822.043.35% | 2012 Q2 | 1.47% | 3.51% | Feb-08 | 2008 | Q1 | 40,379.37 | \$ 2,996.92 | | 43,376.29 | 5.14% | |
| 2013 Q1 0.00% 0.00% May-08 2008 Q2 46,703.15 \$ 2,881.14 49,584.29 4.08% 2013 Q2 0.00% 0.00% Jun-08 2008 Q2 49,584.29 \$ 1,259.96 50,844.25 4.08% 2013 Q3 0.00% 0.00% Jul-08 2008 Q3 50,844.25 \$ 1,720.23 52,564.48 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 52,564.48 \$ 1,500.82 54,065.30 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 52,564.48 \$ 1,500.82 54,065.30 \$ 54,065.30 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 52,564.48 \$ 1,500.82 54,065.30 \$ 3,35% 2013 Q4 0.00% 0.00% Q3 \$ 54,065.30 \$ 756.74 54,822.04 3.35% | 2012 Q3 | 1.47% | 3.51% | Mar-08 | 2008 | Q1 | 43,376.29 | \$ 2,340.57 | | 45,716.86 | 5.14% | |
| 2013 Q2 0.00% 0.00% Jun-08 2008 Q2 49,584.29 \$ 1,259.96 50,844.25 4.08% 2013 Q3 0.00% 0.00% Jul-08 2008 Q3 50,844.25 \$ 1,720.23 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 52,564.48 \$ 1,500.82 54,065.30 3.35% Sep-08 2008 Q3 54,065.30 \$ 756.74 54,822.04 3.35% | 2012 Q4 | 1.47% | 3.51% | Apr-08 | 2008 | Q2 | 45,716.86 | \$ 986.29 | | 46,703.15 | 4.08% | |
| 2013 Q3 0.00% 0.00% Jul-08 2008 Q3 50,844.25 \$ 1,720.23 52,564.48 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 52,564.48 \$ 1,500.82 54,065.30 3.35% Sep-08 2008 Q3 54,065.30 \$ 756.74 54,822.04 3.35% | 2013 Q1 | 0.00% | 0.00% | May-08 | 2008 | Q2 | 46,703.15 | \$ 2,881.14 | | 49,584.29 | 4.08% | |
| 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 52,564.48 \$ 1,500.82 54,065.30 3.35% Sep-08 2008 Q3 54,065.30 \$ 756.74 54,822.04 3.35% | 2013 Q2 | 0.00% | 0.00% | Jun-08 | 2008 | Q2 | 49,584.29 | \$ 1,259.96 | | 50,844.25 | 4.08% | |
| Sep-08 2008 Q3 54,065.30 \$ 756.74 54,822.04 3.35% | 2013 Q3 | 0.00% | 0.00% | Jul-08 | 2008 | Q3 | 50,844.25 | \$ 1,720.23 | | 52,564.48 | 3.35% | |
| | 2013 Q4 | 0.00% | 0.00% | Aug-08 | 2008 | Q3 | 52,564.48 | \$ 1,500.82 | | 54,065.30 | 3.35% | |
| Oct-08 2008 Q4 54,822.04 \$ 2,867.88 57,689.92 3.35% | | | | Sep-08 | 2008 | Q3 | 54,065.30 | \$ 756.74 | | 54,822.04 | 3.35% | |
| | | | | Oct-08 | 2008 | Q4 | 54,822.04 | \$ 2,867.88 | | 57,689.92 | 3.35% | |

Smart Meter Model

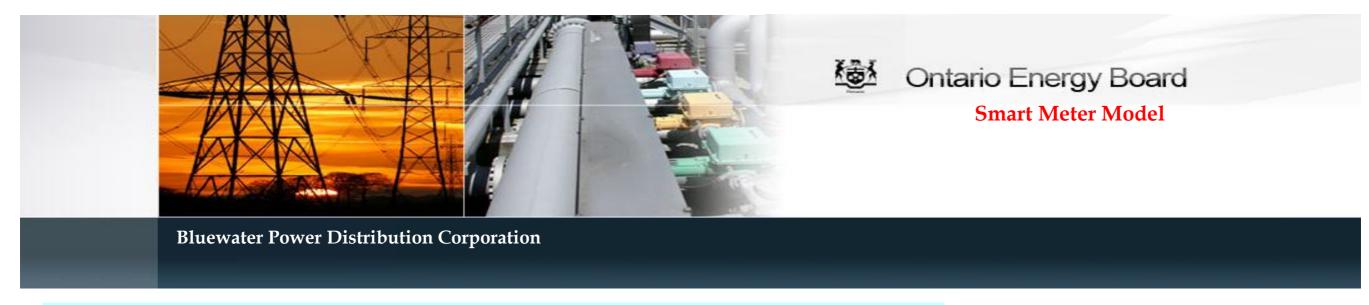
| Interest (on opening balance) | Cumulative Interest |
|-------------------------------------|------------------------|
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| 5.49 | 5.49 |
| 6.08 6.08 | 11.57 17.65 |
| 6.08 | 23.73 |
| 6.08 | 29.82 |
| 46.03 | 75.84 |
| 50.94 | 126.79 |
| 51.47 | 178.26 |
| 52.39 | 230.65 |
| 53.44 | 284.09 |
| 54.50 | 338.59 |
| 55.55 | 394.14 |
| 61.74 | 455.88 |
| 70.87 | 526.75 |
| 85.96 | 612.71 |
| 91.04 | 703.75 |
| 129.92 | 833.66 |
| 132.34 | 966.00 |
| 138.00 | 1,104.01 |
| 168.67 | 1,272.67 |
| 172.96 | 1,445.63 |
| 185.80 155.44 | 1,631.43 1,786.86 |
| 158.79 | 1,945.65 |
| 168.59 | 2,114.24 |
| 141.94 | 2,256.18 |
| 146.74 | 2,402.92 |
| 150.93 | 2,553.86 |
| 153.04 | 2,706.90 |

| Nev 00 | 0000 | 0.4 | 57 690 02 | ¢ | 1 000 50 | | | | 2.250/ |
|------------------|--------------|----------|------------------------|----------|--------------------|----------|-----------|------------------------|------------------------|
| Nov-08 Dec-08 | 2008 | Q4 | 57,689.92 59,552.42 | \$ \$ | 1,862.50 660.64 | \$ | 730.00 | 59,552.42 60,943.06 | 3.35% 3.35% |
| Jan-09 | 2008 | Q4 | 60,943.06 | \$ \$ | 2,012.04 | φ \$ | 910.00 | 63,865.10 | 3.35 <i>%</i> 2.45% |
| Feb-09 | 2009 | Q1 | 63,865.10 | ֆ \$ | 940.18 | φ \$ | 910.00 | 65,715.28 | 2.45% |
| Mar-09 | 2009 2009 | Q1 Q1 | 65,715.28 | φ \$ | 1,979.72 | φ \$ | 910.00 | 68,605.00 | 2.45% |
| Apr-09 | | | 68,605.00 | φ \$ | 463.55 | φ \$ | 910.00 | 69,978.55 | 2.45 <i>%</i> 1.00% |
| May-09 | 2009 | Q2 | 69,978.55 | \$ \$ | 3,052.55 | _ | 910.00 | 73,941.10 | 1.00% |
| Jun-09 | 2009 | Q2 | 73,941.10 | φ \$ | 415.74 | \$ \$ | 910.00 | 75,266.84 | 1.00% |
| Jul-09 | 2009 | Q2 | 75,266.84 | φ \$ | 415.74 | φ \$ | 910.00 | 76,585.24 | 0.55% |
| Aug-09 | 2009 2009 | Q3 Q3 | 76,585.24 | φ \$ | 369.64 | φ \$ | 910.00 | 77,864.88 | 0.55% |
| Sep-09 | 2009 | Q3 | 77,864.88 | \$ | 487.37 | \$ | 910.00 | 79,262.25 | 0.55% |
| Oct-09 | 2009 | Q3 Q4 | 79,262.25 | φ \$ | 4,272.57 | \$ | 910.00 | 84,444.82 | 0.55% |
| Nov-09 | 2009 | Q4 Q4 | 84,444.82 | φ \$ | 995.97 | \$ | 910.00 | 86,350.79 | 0.55% |
| Dec-09 | 2009 | Q4 Q4 | 86,350.79 | φ \$ | 1,779.53 | \$ | 910.00 | 89,040.32 | 0.55% |
| Jan-10 | 2009 | Q4 Q1 | 89,040.32 | \$ | 37.82 | \$ | 19,832.00 | 108,910.14 | 0.55% |
| Feb-10 | 2010 | Q1 | 108,910.14 | \$ | 1,060.55 | \$ | 19,832.00 | 129,802.69 | 0.55% |
| Mar-10 | 2010 | Q1 | 129,802.69 | \$ | 6,007.80 | \$ | 19,832.00 | 155,642.49 | 0.55% |
| Apr-10 | 2010 | Q2 | 155,642.49 | φ \$ | 41,928.51 | \$ | 19,832.00 | 217,403.00 | 0.55% |
| May-10 | 2010 | Q2 Q2 | 217,403.00 | \$ | 2,864.79 | \$ | 19,832.00 | 240,099.79 | 0.55% |
| Jun-10 | | | 240,099.79 | φ \$ | 19,515.84 | φ \$ | 19,832.00 | 279,447.63 | 0.55% |
| Jul-10 | 2010 2010 | Q2 Q3 | 279,447.63 | \$ \$ | 8,160.76 | φ \$ | 19,832.00 | 307,440.39 | 0.35% |
| Aug-10 | 2010 | Q3 | 307,440.39 | φ \$ | 3,669.32 | φ \$ | 19,832.00 | 330,941.71 | 0.89% |
| Sep-10 | 2010 | Q3 | 330,941.71 | φ \$ | 4,865.69 | \$ | 19,832.00 | 355,639.40 | 0.89% |
| Oct-10 | 2010 | Q3 Q4 | 355,639.40 | \$ \$ | 5,821.80 | φ \$ | 19,832.00 | 381,293.20 | 1.20% |
| Nov-10 | 2010 | Q4 Q4 | 381,293.20 | \$ | 5,998.92 | \$ | 19,832.00 | 407,124.12 | 1.20% |
| Dec-10 | 2010 | Q4 Q4 | 407,124.12 | φ \$ | 42,712.33 | \$ | 19,832.00 | 469,668.45 | 1.20% |
| Jan-11 | 2010 | Q4 Q1 | 469,668.45 | φ \$ | 17,832.68 | \$ | 57,808.00 | 545,309.13 | 1.47% |
| Feb-11 | 2011 | Q1 | 545,309.13 | \$ | 9,318.81 | \$ | 57,808.00 | 612,435.94 | 1.47% |
| Mar-11 | 2011 | Q1 | 612,435.94 | \$ | 13,918.78 | \$ | 57,808.00 | 684,162.72 | 1.47% |
| Apr-11 | 2011 | Q2 | 684,162.72 | \$ | 12,054.63 | \$ | 57,808.00 | 754,025.35 | 1.47% |
| May-11 | 2011 | Q2 | 754,025.35 | \$ | 24,278.81 | \$ | 57,808.00 | 836,112.16 | 1.47% |
| Jun-11 | 2011 | Q2 | 836,112.16 | \$ | 18,167.36 | \$ | 57,808.00 | 912,087.52 | 1.47% |
| Jul-11 | 2011 | Q3 | 912,087.52 | \$ | 17,864.23 | \$ | 57,808.00 | 987,759.74 | 1.47% |
| Aug-11 | 2011 | Q3 | 987,759.74 | \$ | 16,400.05 | \$ | 57,808.00 | 1,061,967.79 | 1.47% |
| Sep-11 | 2011 | Q3 | 1,061,967.79 | \$ | 13,714.70 | \$ | 57,808.00 | 1,133,490.49 | 1.47% |
| Oct-11 | 2011 | Q4 | 1,133,490.49 | \$ | 19,403.25 | \$ | 57,808.00 | 1,210,701.74 | 1.47% |
| Nov-11 | 2011 | Q4 | 1,210,701.74 | \$ | 28,990.02 | \$ | 57,808.00 | 1,297,499.76 | 1.47% |
| Dec-11 | 2011 | Q4 | 1,297,499.76 | \$ | 51,668.15 | \$ | 57,808.00 | 1,406,975.91 | 1.47% |
| Jan-12 | 2012 | Q1 | 1,406,975.91 | \$ | 33,506.18 | \$ | 84,245.00 | 1,524,727.09 | 1.47% |
| Feb-12 | 2012 | Q1 | 1,524,727.09 | \$ | 32,703.26 | \$ | 84,245.00 | 1,641,675.35 | 1.47% |
| Mar-12 | 2012 | Q1 | 1,641,675.35 | \$ | 30,543.53 | \$ | 84,245.00 | 1,756,463.88 | 1.47% |
| Apr-12 | 2012 | Q2 | 1,756,463.88 | \$ | 27,187.43 | \$ | 84,245.00 | 1,867,896.31 | 1.47% |
| May-12 | 2012 | Q2 | 1,867,896.31 | \$ | 21,053.00 | \$ | 84,245.00 | 1,973,194.31 | 1.47% |
| Jun-12 | 2012 | Q2 | 1,973,194.31 | \$ | 11,853.00 | \$ | 84,245.00 | 2,069,292.31 | 1.47% |
| Jul-12 | 2012 | Q3 | 2,069,292.31 | \$ | 11,853.00 | \$ | 84,245.00 | 2,165,390.31 | 1.47% |
| Aug-12 | 2012 | Q3 | 2,165,390.31 | \$ | 11,853.00 | \$ | 84,245.00 | 2,261,488.31 | 1.47% |
| Sep-12 | 2012 | Q3 | 2,261,488.31 | \$ | 11,853.00 | \$ | 84,245.00 | 2,357,586.31 | 1.47% |
| Oct-12 | 2012 | Q4 | 2,357,586.31 | \$ | - | \$ | 84,245.00 | 2,441,831.31 | 1.47% |
| Nov-12 | 2012 | Q4 | 2,441,831.31 | \$ | - | \$ | 84,245.00 | 2,526,076.31 | 0.00% |
| Dec-12 | 2012 | Q4 | 2,526,076.31 | \$ | - | \$ | 84,245.00 | 2,610,321.31 | 0.00% |
| Jan-13 | 2013 | Q1 | 2,610,321.31 | | | \$ | 90,816.00 | 2,701,137.31 | 0.00% |
| Feb-13 | 2013 | Q1 | 2,701,137.31 | | | \$ | 90,816.00 | 2,791,953.31 | 0.00% |
| Mar-13 | 2013 | Q1 | 2,791,953.31 | | | \$ | 90,816.00 | 2,882,769.31 | 0.00% |
| Apr-13 | 2013 | Q2 | 2,882,769.31 | | | \$ | 90,816.00 | 2,973,585.31 | 0.00% |
| May-13 | 2013 | Q2 | 2,973,585.31 | | | \$ | 90,816.00 | 3,064,401.31 | 0.00% |
| Jun-13 | 2013 | Q2 | 3,064,401.31 | | | \$ | 90,816.00 | 3,155,217.31 | 0.00% |
| Jul-13 | 2013 | Q3 | 3,155,217.31 | | | \$ | 90,816.00 | 3,246,033.31 | 0.00% |
| Aug-13 | 2013 | Q3 | 3,246,033.31 | | | \$ | 90,816.00 | 3,336,849.31 | 0.00% |
| Aug-15 | | | | - | | | | | |
| Sep-13 | 2013 | Q3 | 3,336,849.31 | | | \$ | 90,816.00 | 3,427,665.31 | 0.00% |

| 161.05 | 2,867.95 |
|----------|-----------|
| 166.25 | 3,034.20 |
| 124.43 | 3,158.63 |
| 130.39 | 3,289.02 |
| 134.17 | 3,423.19 |
| 57.17 | 3,480.36 |
| 58.32 | 3,538.67 |
| 61.62 | 3,600.29 |
| 34.50 | 3,634.79 |
| 35.10 | 3,669.89 |
| 35.69 | 3,705.58 |
| 36.33 | 3,741.91 |
| 38.70 | 3,780.61 |
| 39.58 | 3,820.19 |
| 40.81 | 3,861.00 |
| 49.92 | 3,910.92 |
| 59.49 | 3,970.41 |
| 71.34 | 4,041.74 |
| 99.64 | 4,141.39 |
| 110.05 | 4,251.43 |
| 207.26 | 4,458.69 |
| 228.02 | 4,686.71 |
| 245.45 | 4,932.16 |
| 355.64 | 5,287.80 |
| 381.29 | 5,669.09 |
| 407.12 | 6,076.21 |
| 575.34 | 6,651.56 |
| 668.00 | 7,319.56 |
| 750.23 | 8,069.80 |
| 838.10 | 8,907.89 |
| 923.68 | 9,831.58 |
| 1,024.24 | 10,855.81 |
| 1,117.31 | 11,973.12 |
| 1,210.01 | 13,183.13 |
| 1,300.91 | 14,484.04 |
| 1,388.53 | 15,872.56 |
| 1,483.11 | 17,355.67 |
| 1,589.44 | 18,945.11 |
| 1,723.55 | 20,668.65 |
| 1,867.79 | 22,536.45 |
| 2,011.05 | 24,547.50 |
| 2,151.67 | 26,699.17 |
| 2,288.17 | 28,987.34 |
| 2,417.16 | 31,404.50 |
| 2,534.88 | 33,939.39 |
| 2,652.60 | 36,591.99 |
| 2,770.32 | 39,362.31 |
| 2,888.04 | 42,250.35 |
| - | 42,250.35 |
| - | 42,250.35 |
| - | 42,250.35 |
| - | 42,250.35 |
| - | 42,250.35 |
| - | 42,250.35 |
| - | 42,250.35 |
| - | 42,250.35 |
| - | 42,250.35 |
| - | 42,250.35 |
| - | 42,250.35 |
| - | 42,250.35 |
| | |

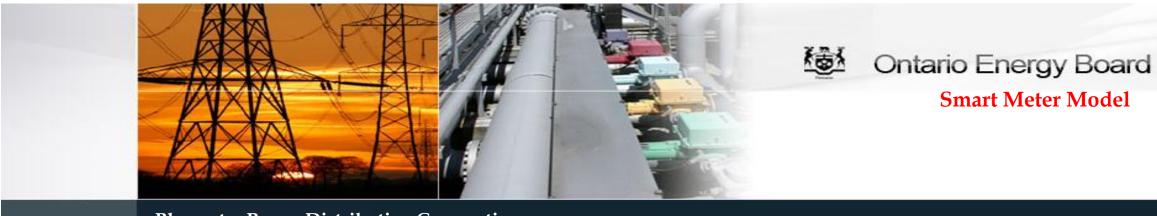
| Nov-13 Dec-13 | 2013 2013 | Q4 Q4 | 3,518,481.31 3,609,297.31 | | \$ \$ | 90,816.00 90,816.00 | 3,609,297.31 3,700,113.31 | 0.00% FALSE |
|------------------|--------------|----------|------------------------------|------------------|----------|------------------------|------------------------------|----------------|
| | | | : | \$ 655,868.31 | \$ | 1,954,453.00 | \$ 2,610,321.31 | |

- 42,250.35 - 42,250.35



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

| Year | (from Sheet 5) | | Exp | ortization ense n Sheet 5) | and | ulative OM&A Amortization ense | and | rage nulative OM&A Amortization ense | Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B) | Simple Interest on OM&A and Amortization Expenses | | |
|-----------|----------------|------------|-----|----------------------------------|-----|--------------------------------------|-----|---|---|--|-----------|--|
| 2006 | \$ | 13,439.32 | \$ | 17.20 | \$ | 13,456.52 | \$ | 6,728.26 | 4.37% | \$ | 293.69 | |
| 2007 | \$ | 25,755.20 | \$ | 166.00 | \$ | 39,377.72 | \$ | 26,417.12 | 4.73% | \$ | 1,248.87 | |
| 2008 | \$ | 20,835.54 | \$ | 729.90 | \$ | 60,943.16 | \$ | 50,160.44 | 3.98% | \$ | 1,996.39 | |
| 2009 | \$ | 17,177.26 | \$ | 10,921.10 | \$ | 89,041.52 | \$ | 74,992.34 | 1.14% | \$ | 853.04 | |
| 2010 | \$ | 142,643.87 | \$ | 237,984.59 | \$ | 469,669.98 | \$ | 279,355.75 | 0.80% | \$ | 2,227.86 | |
| 2011 | \$ | 243,610.99 | \$ | 693,692.51 | \$ | 1,406,973.49 | \$ | 938,321.74 | 1.47% | \$ | 13,793.33 | |
| 2012 | \$ | 192,407.41 | \$ | 1,010,945.65 | \$ | 2,610,326.55 | \$ | 2,008,650.02 | 1.23% | \$ | 24,605.96 | |
| 2013 | \$ | - | \$ | 1,089,795.47 | \$ | 3,700,122.02 | \$ | 3,155,224.29 | 0.00% | \$ | - | |
| Cumulati | ve Interest | to 2011 | | | | | | | | \$ | 20,413.17 | |
| Cumulativ | ve Interest | to 2012 | | | | | | | | \$ | 45,019.14 | |
| Cumulativ | ve Interest | to 2013 | | | | | | | | \$ | 45,019.14 | |
| | | | | | | | | | | | | |



Bluewater Power Distribution Corporation

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

| X | Smart Meter Incremental Revenue Requirement Rate Rider (SMIRR) | The SMIRR is calculated based on the incremental revenue requ |
|---|--|---|
| X | Smart Meter Disposition Rider (SMDR) | The SMDR is calculated based on costs to December 31, 2011 |
| | Smart Meter Funding Adder (SMFA) | |

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) | \$ | 13,675.47 | \$ | 26,371.64 | \$ | 22,067.13 | \$ | 30,454.13 | \$ | 459,682.80 | \$ | 1,190,889.69 | \$ | 1,603,769.79 | \$ 1,547,627.49 | \$ 3,346,910.65 |
| Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below) | \$ | 126.79 | \$ | 977.22 | \$ | 1,930.20 | \$ | 785.99 | \$ | 2,256.03 | \$ | 12,868.90 | \$ | 23,305.25 | | \$ 42,250.35 |
| X Sheet 8A (Interest calculated on monthly balances) | \$ | 126.79 | \$ | 977.22 | \$ | 1,930.20 | \$ | 785.99 | \$ | 2,256.03 | \$ | 12,868.90 | \$ | 23,305.25 | \$ - | \$ 42,250.35 |
| Sheet 8B (Interest calculated on average annual balances) | | | | | | | | | | | | | | | | |
| SMFA Revenues (from Sheet 8) | \$ | 68,594.50 | \$ | 116,677.60 | \$ | 116,671.10 | \$ | 115,377.93 | \$ | 275,926.66 | \$ | 654,198.63 | \$ | 401,188.50 | \$ - | \$ 1,748,634.92 |
| SMFA Interest (from Sheet 8) | \$ | 427.91 | \$ | 5,878.70 | \$ | 9,303.15 | \$ | 3,837.20 | \$ | 4,239.55 | \$ | 13,938.59 | \$ | 19,852.77 | \$ - | \$ 57,477.87 |
| Net Deferred Revenue Requirement | -\$ | 55,220.16 | -\$ | 95,207.44 | -\$ | 101,976.92 | -\$ | 87,975.01 | \$ | 181,772.62 | \$ | 535,621.36 | \$ | 1,206,033.77 | \$ 1,547,627.49 | \$ 1,583,048.22 |
| Number of Metered Customers (average for 2013 test year) | | dential and CC | | | | any other metered | | involved (e.e. CC | 50 to 1 | 1000 WW for which | intorio | | rodod | | 35666 | |

- 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 collectio | n or refunding | | 1 | |
|---------------------|--|--------|------------------|-------|
| | ntal Revenue Requirement from 2006 to December 31, 2012 st on OM&A and Amortization | \$ | 3,389,161.01 | |
| SMFA Revenues | collected from 2006 to 2013 test year (inclusive) | \$ | 1,806,112.79 | |
| • | e Interest on SMFA Revenues enue Requirement | \$ | 1,583,048.22 — |) |
| SMDR | November 1, 2012 to | \$ | 3.70 | Match |
| Check: Forecaste | ed SMDR Revenues | \$ | 1,583,570.40 — | J |
| Calculation of Smar | t Meter Incremental Revenue Requirement Rate Rider (per metere | ed cus | tomer per month) |) |
| Incremental Reve | nue Requirement for 2013 | \$ | 1,547,627.49 - | |

mental revenue requirement associated with the recovery of capital

| | 2006 | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | Tota | al to 2011 | Tota | al to 2012 |
|--|--------------|--------------|-----|--------|-----|--------|-----|---------|-----|-----------|-----|-----------|------|------------|------|------------|
| Deemed Short Term Debt | \$ - | \$ - | \$ | - | \$ | 27 | \$ | 1,288 | \$ | 3,083 | \$ | 3,589 | \$ | 4,398 | \$ | 7,986 |
| Deemed Long Term Debt | \$ 76 | \$ 166 | \$ | 241 | \$ | 2,020 | \$ | 103,314 | \$ | 247,293 | \$ | 287,848 | \$ | 353,109 | \$ | 640,958 |
| Equity | \$ 94 | \$ 207 | \$ | 262 | \$ | 1,744 | \$ | 77,573 | \$ | 185,678 | \$ | 216,129 | \$ | 265,558 | \$ | 481,687 |
| Return on Capital | \$ 170 | \$ 373 | \$ | 502 | \$ | 3,791 | \$ | 182,175 | \$ | 436,054 | \$ | 507,566 | \$ | 623,065 | \$ | 1,130,631 |
| Operating Expense | \$ 13,439 | \$ 25,755 | \$ | 20,836 | \$ | 17,177 | \$ | 142,644 | \$ | 243,611 | \$ | 192,407 | \$ | 463,462 | \$ | 655,870 |
| Amortization | \$ 17 | \$ 166 | \$ | 730 | \$ | 10,921 | \$ | 237,985 | \$ | 693,693 | \$ | 1,010,946 | \$ | 943,511 | \$ | 1,954,457 |
| Total Before PILs | \$ 13,627 | \$ 26,294 | \$ | 22,068 | \$ | 31,889 | \$ | 562,803 | \$ | 1,373,357 | \$ | 1,710,919 | \$ | 2,030,039 | \$ 3 | 3,740,957 |
| PILS | \$ 49 | \$ 77 | -\$ | 1 | -\$ | 1,435 | -\$ | 103,120 | -\$ | 182,468 | -\$ | 107,149 | -\$ | 286,898 | -\$ | 394,047 |
| Revenue Requirement | \$ 13,675 | \$ 26,372 | \$ | 22,067 | \$ | 30,454 | \$ | 459,683 | \$ | 1,190,890 | \$ | 1,603,770 | \$ | 1,743,141 | \$ 3 | 3,346,911 |
| Interest on Deferred OM&A and Amortization | \$ 127 | \$ 977 | \$ | 1,930 | \$ | 786 | \$ | 2,256 | \$ | 12,869 | \$ | 23,305 | \$ | 18,945 | \$ | 42,250 |
| Total Revenue Requirement | \$ 13,802 | \$ 27,349 | \$ | 23,997 | \$ | 31,240 | \$ | 461,939 | \$ | 1,203,759 | \$ | 1,627,075 | \$ | 1,762,086 | \$ 3 | 3,389,161 |

Appendix 3

V 2.21



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Ontario Energy Board Smart Meter Model (for 2013 Rates Applications)

Choose Your Utility: Bluewater Power Distribution Corporation Brant County Power Inc.

Application Contact Information

| Name: | Leslie Dugas |
|--------------------------------------|-------------------------------|
| Title: | Manager of Regulatory Affairs |
| Phone Number: | 519-337-8201 Ext 2255 |
| Email Address: | Idugas@bluewaterpower.com |
| We are applying for rates effective: | November 1, 2012 |
| Last COS Re-based Year | 2009 |

Copyright

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results. The use of any models and spreadsheets does not automatically imply Board approval. The onus is on the distributor to prepare, document and support its application. Board-issued Excel models and spreadsheets are offered to assist parties in providing the necessary information so as to facilitate an expeditious review of an application. The onus remains on the applicant to ensure the accuracy of the data and the results.

1. Utility_Info



Bluewater Power Distribution Corporation

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.

| | | 2006 | 2007 |
|--|--|----------------|------------|
| Smart Meter Capital Cost and Operational Expense Data | | Audited Actual | Audited Ac |
| 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) | | 0 | |
| Percentage of Residential and GS < 50 kW Smart Meter Installations Completed | | 0.00% | (|
| Actual/Planned number of GS > 50 kW meters installed | | | |
| Other (please identify) | | | |
| Total Number of Smart Meters installed or planned to be installed | | 0 | |
| 1 Capital Costs | | | |
| 1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD) | Asset Type Asset type must be selected to enable calculations | Audited Actual | Audited Ac |
| 1.1.1 Smart Meters (may include new meters and modules, etc.) | Smart Meter | | |
| 1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.) | Smart Meter | | |
| 1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.) | Tools & Equipment | | |
| 1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.) | | | |
| Total Advanced Metering Communications Devices (AMCD) | | \$ | \$ |
| 1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN) | Asset Type | Audited Actual | Audited Ac |
| 1.2.1 Collectors | Smart Meter | | |
| 1.2.2 Repeaters (may include radio licence, etc.) | Computer Hardware | | |
| 1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.) | Computer Hardware | | |
| Total Advanced Metering Regional Collector (AMRC) (Includes LAN) | | \$ - | \$ |

2010 2011 2012 2013 2008 2009 Total ctual Audited Actual Audited Actual Audited Actual Audited Actual Forecast Forecast 28,293 3,586 18 31897 0 28293 3586 31879 18 0 0.00% 0.00% 88.75% 100.00% 0.00% 100.06% 100.00% 0.00% 0 0 28293 3586 31897 0 Audited Actual Audited Actual Audited Actual Audited Actual Forecast Forecast ctual 2,266,047 224,565 408 2,491,020 \$ 299,342 528,204 191,725 37,137 4,071 4,071 \$ -- <u>\$</u> - <u>\$</u> 2,569,460 <u>\$</u> 416,289 <u>\$</u> 37,545 <u>\$</u> - <u>\$</u> 3,023,295 Audited Actual ctual Audited Actual Audited Actual Audited Actual Forecast Forecast 178,872 \$ 178,872 4,753 \$ 4,753 2,082 7,206 155,878 2,357 \$ 167,523 - <u>\$ 2,082</u> <u>\$ 7,206</u> <u>\$ 339,503</u> <u>\$ 2,357</u> <u>\$ -</u> <u>\$</u> -\$ 351,148

| 1.3 ADVANCED METERING CONTROL COMPUTER (AMCC) | Asset Type | Audited Actual | Audited Act |
|---|-------------------|----------------|--------------|
| 1.3.1 Computer Hardware | Computer Hardware | | |
| 1.3.2 Computer Software | Computer Software | | |
| 1.3.3 Computer Software Licences & Installation (includes hardware and software) | | | |
| (may include AS/400 disk space, backup and recovery computer, UPS, etc.) Total Advanced Metering Control Computer (AMCC) | | \$ - | \$ |
| | | ψ - | Ψ |
| | Asset Type | | |
| 1.4 WIDE AREA NETWORK (WAN) | | Audited Actual | Audited Actu |
| 1.4.1 Activiation Fees | | | |
| Total Wide Area Network (WAN) | | \$- | \$ |
| | Asset Type | | |
| 1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY | | Audited Actual | Audited Act |
| 1.5.1 Customer Equipment (including repair of damaged equipment) | Other Equipment | | |
| 1.5.2 AMI Interface to CIS | Computer Software | | |
| 1.5.3 Professional Fees | Computer Hardware | | |
| 1.5.4 Integration | Computer Software | | |
| 1.5.5 Program Management | Computer Software | 118 | |
| 1.5.6 Other AMI Capital | Computer Software | | |
| Total Other AMI Capital Costs Related to Minimum Functionality | | \$ 118 | \$ |
| Total Capital Costs Related to Minimum Functionality | | \$ 118 | \$ |
| | Asset Type | | |
| 1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY (Please provide a descriptive title and identify nature of beyond minimum functionality costs) | | Audited Actual | Audited Act |
| 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 | | |
| Total Capital Costs Beyond Minimum Functionality | | \$- | \$ |
| Total Smart Meter Capital Costs | | \$ 118 | \$ |

| d Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | | |
|----------|----------------|----------------|----------------|----------------|------------|-----------|----|-----------|
| | | | 4,211 | | | | \$ | 4,211 |
| | | 20,345 | 121,447 | | | | \$ | 141,793 |
| | | | | | | | \$ | - |
| - | \$ - | \$ 20,345 | \$ 125,658 | \$ - | \$- | \$ - | \$ | 146,003 |
| | | | | | | | | |
| d Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | | |
| | | | | | | | \$ | - |
| - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ | <u> </u> |
| | | | | | | | | |
| | | | | | _ | | | |
| d Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | • | ~~~~~ |
| | | | 27,339 | 5,694 | | | \$ | 33,033 |
| | | | | | | | \$ | - |
| | 576 | 26,848 | 18,393 | 4,565 | | | \$ | 50,382 |
| | | | | | | | \$ | - |
| 903 | 307 | 1,498 | 38,894 | 35,650 | 46,326 | | \$ | 123,696 |
| | | 11,049 | 196,272 | 118,267 | 99,429 | | \$ | 425,016 |
| 903 | \$ 884 | \$ 39,395 | \$ 280,898 | \$ 164,175 | \$ 145,754 | <u>\$</u> | \$ | 632,127 |
| 903 | \$ 2,966 | \$ 66,946 | \$ 3,315,519 | \$ 582,822 | \$ 183,300 | \$- | \$ | 4,152,573 |
| | | | | | | | | |
| d Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | | |
| | | | | | | | \$ | _ |
| | | | | | | | Ŧ | |
| | | | | | | | \$ | - |
| | | | | | | | • | |
| | - | | 20,403 | 1,332,998 | 382,640 | | \$ | 1,736,042 |
| - | \$ | \$ | \$ 20,403 | \$ 1,332,998 | \$ 382,640 | \$ | \$ | 1,736,042 |
| 903 | \$ 2,966 | \$ 66,946 | \$ 3,335,922 | \$ 1,915,820 | \$ 565,940 | \$- | \$ | 5,888,615 |

2 OM&A Expenses

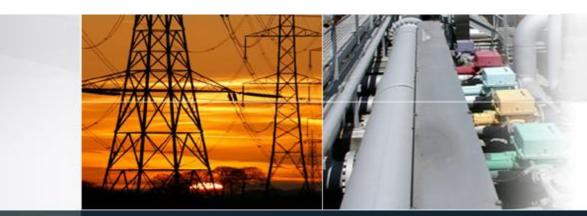
| 2.1 ADVANCED METERING C | OMMUNICATION DEVICE (AMCD) | Audited Actual | Audited A |
|---|--|----------------|-----------|
| 2.1.1 Maintenance (may include n | neter reverification costs, etc.) | | |
| 2.1.2 Other (please specifiy) | ODS Fees | 1,743 | |
| Total Incremental AMCD OM& | A Costs | \$ 1,743 | \$ |
| 2.2 ADVANCED METERING R | EGIONAL COLLECTOR (AMRC) (includes LAN) | | |
| 2.2.1 Maintenance | | | |
| 2.2.2 Other (please specifiy) | Network Fees | | |
| Total Incremental AMRC OM& | A Costs | \$ - | \$ |
| 2.3 ADVANCED METERING C | ONTROL COMPUTER (AMCC) | | |
| 2.3.1 Hardware Maintenance (n | nay include server support, etc.) | | |
| 2.3.2 Software Maintenance (ma | y include maintenance support, etc.) | | |
| 2.3.2 Other (please specifiy) | | | |
| Total Incremental AMCC OM& | A Costs | \$ - | \$ |
| 2.4 WIDE AREA NETWORK (| WAN) | | |
| 2.4.1 WAN Maintenance | | | |
| 2.4.2 Other (please specifiy) | | | |
| Total Incremental AMRC OM& | A Costs | \$ - | \$ |
| 2.5 OTHER AMI OM&A COST | S RELATED TO MINIMUM FUNCTIONALITY | | |
| 2.5.1 Business Process Redesi | gn | | |
| 2.5.2 Customer Communication | n (may include project communication, etc.) | 25 | |
| 2.5.3 Program Management | | 1,938 | |
| 2.5.4 Change Management (ma | ay include training, etc.) | | |
| 2.5.5 Administration Costs | | 8,403 | |
| 2.5.6 Other AMI Expenses (please specify) | | | |
| | Related to Minimum Functionality | \$ 10,365 | \$ |
| TOTAL OM&A COSTS RELAT | ED TO MINIMUM FUNCTIONALITY | \$ 12,109 | \$ 2 |
| | TO BEYOND MINIMUM FUNCTIONALITY dentify nature of beyond minimum functionality costs) | Audited Actual | Audited A |
| 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 s and small general service | mart meters to customers other than residential | | |
| - | mentation, CIS system upgrades, web presentation, | | |
| integration with the MDM/R, etc. | | | |
| Total OM&A Costs Beyond Mi | nimum Functionality | \$ - | \$ |
| | | | 1 |

Total Smart Meter OM&A Costs

| Audited | d Actual | Audited Actual | | Actual Audited Actual | | Audited Actual | | Audited Actual | | Audited Actual | | Forecast | | For | ecast | | |
|----------|----------|----------------|-----------|-----------------------|-----------|----------------|-----------|----------------|------------|----------------|-----------|----------|---------|-----|-------|----|----------|
| | | | | | | | | | | | | | | | | \$ | - |
| | 1,743 | | 5,507 | | 4,052 | | 4,259 | | 14,943 | | 36,451 | | 19,901 | | | \$ | 86,856 |
| \$ | 1,743 | \$ | 5,507 | \$ | 4,052 | \$ | 4,259 | \$ | 14,943 | \$ | 36,451 | \$ | 19,901 | \$ | - | \$ | 86,856 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | \$ | - |
| | | | | | | | | | 26,699 | | 44,269 | | 19,428 | | | \$ | 90,397 |
| \$ | - | \$ | - | \$ | - | \$ | - | \$ | 26,699 | \$ | 44,269 | \$ | 19,428 | \$ | - | \$ | 90,397 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | \$ | - |
| | | | | | | | | | 23,567 | | 8,132 | | 1,224 | | | \$ | 32,924 |
| | | | | | | | | | | | | | | | | \$ | - |
| \$ | - | \$ | - | \$ | - | \$ | - | \$ | 23,567 | \$ | 8,132 | \$ | 1,224 | \$ | - | \$ | 32,924 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | \$ | - |
| | | | | | | | | | | | | | | | | \$ | - |
| \$ | - | \$ | | \$ | - | \$ | - | \$ | | \$ | | \$ | | \$ | - | \$ | <u> </u> |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 2,647 | | 9,761 | | | | | \$ | 12,408 |
| | 25 | | | | | | | | 50,293 | | 13,289 | | | | | \$ | 63,607 |
| | 1,938 | | 13,331 | | 14,706 | | 5,932 | | -1,433 | | | | | | | \$ | 34,475 |
| | | | | | | | 5,269 | | 11,013 | | 13,142 | | 17,305 | | | \$ | 46,729 |
| | 8,403 | | 4,367 | | 14 | | 17 | | 792 | | 94,448 | | 96,472 | | | \$ | 204,514 |
| | | | | | | | | | | | | | | | | \$ | - |
| \$ | 10,365 | \$ | 17,699 | \$ | 14,721 | \$ | 11,218 | \$ | 63,313 | \$ | 130,641 | \$ | 113,777 | \$ | - | \$ | 361,733 |
| \$ | 12,109 | \$ | 23,205 | \$ | 18,773 | \$ | 15,477 | \$ | 128,522 | \$ | 219,494 | \$ | 154,330 | \$ | - | \$ | 571,910 |
| Audited | d Actual | Audit | ed Actual | Audit | ed Actual | Audite | ed Actual | Audi | ted Actual | Audit | ed Actual | | | | | | |
| | | | | | | | | | | | | | | | | \$ | - |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | \$ | - |
| | | | | | | | | | | | | | 19,029 | | | \$ | 19,029 |
| \$ | - | \$ | - | \$ | | \$ | - | \$ | - | \$ | | \$ | 19,029 | \$ | - | \$ | 19,029 |
| \$ | 12,109 | \$ | 23,205 | \$ | 18,773 | \$ | 15,477 | \$ | 128,522 | \$ | 219,494 | \$ | 173,359 | \$ | | \$ | 590,939 |
| <u> </u> | , 100 | Ψ | _0,200 | Ψ | 10,110 | Ψ | 10,711 | Ψ | . 20,022 | ¥ | <u> </u> | Ψ | | ¥ | | Ψ | |

3 Aggregate Smart Meter Costs by Category

| 3.1 | Capital | | | | | | | | | |
|-------|-----------------------|--------------|--------------|--------------|--------------|-----------------|-----------------|---------------|---------|-----------------|
| 3.1.1 | Smart Meter | \$ - | \$ - | \$ - | \$ - | \$ 2,744,261 | \$ 416,289 | \$ 37,545 | \$ - | \$ 3,198,096 |
| 3.1.2 | Computer Hardware | \$ - | \$ - | \$ 2,658 | \$ 34,054 | \$ 183,234 | \$ 6,922 | \$ - | \$ - | \$ 226,868 |
| 3.1.3 | Computer Software | \$ 118 | \$ 903 | \$ 307 | \$ 32,892 | \$ 377,017 | \$ 1,486,915 | \$ 528,395 | \$ - | \$ 2,426,547 |
| 3.1.4 | Tools & Equipment | \$ - | \$ - | \$ - | \$ - | \$ 4,071 | \$ - | \$ - | \$ - | \$ 4,071 |
| 3.1.5 | Other Equipment | \$ - | \$ - | \$ - | \$ - | \$ 27,339 | \$ 5,694 | \$ - | \$ - | \$ 33,033 |
| 3.1.6 | Applications Software | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 3.1.7 | Total Capital Costs | \$ 118 | \$ 903 | \$ 2,966 | \$ 66,946 | \$ 3,335,922 | \$ 1,915,820 | \$ 565,940 | \$ - | \$ 5,888,615 |
| 3.2 | OM&A Costs | | | | | | | | | |
| 3.2.1 | Total OM&A Costs | \$ 12,109 | \$ 23,205 | \$ 18,773 | \$ 15,477 | \$ 128,522 | \$ 219,494 | \$ 173,359 | \$ - | \$ 590,939 |



Ontario Energy Board Smart Meter Model

Bluewater Power Distribution Corporation

| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Cost of Capital | | | | | | | | |
| Capital Structure ¹ | | | | | | | | |
| Deemed Short-term Debt Capitalization | | | | 4.0% | 4.0% | 4.0% | 4.0% | 4.0% |
| Deemed Long-term Debt Capitalization | 50.0% | 50.0% | 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 | | | 0.00% | 1.33% | 1.33% | 1.33% | 1.33% | 1.33% |
| Long-term Debt Rate (actual/embedded/deemed) ² | 7.25% | 7.25% | 7.25% | 7.62% | 7.62% | 7.62% | 7.62% | 7.62% |
| 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 | 8.13% | 8.13% | 8.07% | 7.54% | 7.52% | 7.52% | 7.52% | 7.52% |
| Working Capital Allowance | | | | | | | | |
| Working Capital Allowance Rate | 15.0% | 15.0% | 15.0% | 12.0% | 12.0% | 12.0% | 12.0% | 12.0% |
| (% of the sum of Cost of Power + controllable expenses) | | | | | | | | |
| Taxes/PILs | | | | | | | | |
| Aggregate Corporate Income Tax Rate | 36.12% | 36.12% | 33.50% | 33.00% | 31.00% | 28.25% | 26.25% | 25.50% |
| 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 | 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% |
| Tools & Equipment - years | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| - rate (%) | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% |
| Other Equipment - years | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| - rate (%) | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% |
| CCA Rates Smart Meters - CCA Class Smart Meters - CCA Rate | 8 20% |
| Computer Equipment - CCA Class | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| Computer Equipment - CCA Rate | 30% | 30% | 30% | 30% | 30% | 30% | 30% | 30% |
| 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 Applications Software - CCA Rate | | | | | | | | |
| Assumptions | | | | | | | | |

Assumptions

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



| Bluewater Power Distribution (| Corporation | | | | | | | | | | | | | | |
|---|-------------|---|----------|-----|-------|-----|--------|-----|-----------|----------|-----------|----------|-----------|-----|-----------|
| Net Fixed Assets - Smart Meters | 2006 | ; | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | | 2013 |
| Gross Book Value | | | | | | | | | | | | | | | |
| Opening Balance | | | \$ - | \$ | - | \$ | - | \$ | - | \$ | 2,744,261 | \$ | 3,160,551 | \$ | 3,198,096 |
| Capital Additions during year (from Smart Meter Costs) | \$ | - | \$ - | \$ | - | \$ | - | \$ | 2,744,261 | \$ | 416,289 | \$ | 37,545 | \$ | - |
| Retirements/Removals (if applicable) Closing Balance | \$ | - | \$ - | \$ | - | \$ | - | \$ | 2,744,261 | \$ | 3,160,551 | \$ | 3,198,096 | \$ | 3,198,096 |
| Accumulated Depreciation | | | | | | | | | | | | | | | |
| Opening Balance | | | \$- | \$ | - | \$ | - | \$ | - | -\$ | 91,475 | -\$ | 288,302 | -\$ | 500,257 |
| Amortization expense during year | \$ | - | \$ - | \$ | - | \$ | - | -\$ | 91,475 | -\$ | 196,827 | -\$ | 211,955 | -\$ | 213,206 |
| Retirements/Removals (if applicable) | | | | | | | | | 0.1.175 | <u> </u> | | | | | |
| Closing Balance | \$ | - | \$- | \$ | - | \$ | - | -\$ | 91,475 | -\$ | 288,302 | -\$ | 500,257 | -\$ | 713,464 |
| Net Book Value | | | | | | | | | | | | | | | |
| Opening Balance | \$ | - | \$ - | \$ | - | \$ | - | \$ | - | \$ | 2,652,786 | \$ | 2,872,248 | \$ | 2,697,839 |
| Closing Balance | \$ | - | \$- | \$ | - | \$ | - | \$ | 2,652,786 | \$ | 2,872,248 | \$ | 2,697,839 | \$ | 2,484,633 |
| Average Net Book Value | \$ | - | \$ - | \$ | - | \$ | - | \$ | 1,326,393 | \$ | 2,762,517 | \$ | 2,785,044 | \$ | 2,591,236 |
| Net Fixed Assets - Computer Hardware | | | | | | | | | | | | | | | |
| Gross Book Value | | | | | | | | | | | | | | | |
| Opening Balance | | | \$ - | \$ | - | \$ | 2,658 | \$ | 36,712 | \$ | 219,946 | \$ | 226,868 | \$ | 226,868 |
| Capital Additions during year (from Smart Meter Costs) | \$ | - | \$- | \$ | 2,658 | \$ | 34,054 | \$ | 183,234 | \$ | 6,922 | \$ | - | \$ | - |
| Retirements/Removals (if applicable) | \$ | | \$ - | \$ | 2,658 | \$ | 36,712 | \$ | 219,946 | \$ | 226,868 | \$ | 226,868 | \$ | 226,868 |
| Closing Balance | Φ | - | φ - | φ | 2,000 | φ | 30,712 | φ | 219,940 | φ | 220,000 | φ | 220,000 | φ | 220,000 |
| Accumulated Depreciation | | | | | | | | | | | | | | | |
| Opening Balance | Ψ | - | Ψ | Ψ | - | -\$ | 266 | -\$ | 4,203 | | 29,869 | -\$ | 74,550 | -\$ | 119,924 |
| Amortization expense during year | \$ | - | \$ - | -\$ | 266 | -\$ | 3,937 | -\$ | 25,666 | -\$ | 44,681 | -\$ | 45,374 | -\$ | 45,374 |
| Retirements/Removals (if applicable) | ¢ | | <u>۴</u> | ¢ | 266 | ¢ | 4 202 | ¢ | 20.960 | ¢ | 74 550 | <u>۴</u> | 110.024 | ¢ | 165 207 |
| Closing Balance | Φ | - | \$ - | -\$ | 266 | -\$ | 4,203 | -\$ | 29,869 | -\$ | 74,550 | -\$ | 119,924 | -\$ | 165,297 |
| Net Book Value | | | | | | | | | | | | | | | |
| Opening Balance | \$ | - | \$ - | \$ | - | \$ | 2,392 | \$ | 32,509 | \$ | 190,077 | \$ | 152,318 | \$ | 106,944 |
| Closing Balance | \$ | - | \$- | \$ | 2,392 | \$ | 32,509 | \$ | 190,077 | \$ | 152,318 | \$ | 106,944 | \$ | 61,571 |
| Average Net Book Value | \$ | - | \$ - | \$ | 1,196 | \$ | 17,451 | \$ | 111,293 | \$ | 171,198 | \$ | 129,631 | \$ | 84,257 |

Smart Meter Model

Net Fixed Assets - Computer Software (including Applications Software)

| Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance | \$ \$ \$ | 118 118 | \$ \$ \$ | 118 903 1,021 | \$ \$ \$ | 1,021 307 1,328 | \$ \$ \$ | 1,328 32,892 34,220 | \$ \$ \$ | 34,220 377,017 411,237 | \$ \$ \$ | 411,237 1,486,915 1,898,152 | \$ \$ \$ | 1,898,152 528,395 2,426,547 | \$ \$ | 2,426,547 - 2,426,547 |
|--|------------------|----------------|-------------------|---------------------|-------------------|-----------------------|-------------------|---------------------------|-------------------|------------------------------|-------------------|-----------------------------------|-------------------|-------------------------------------|-------------------|-------------------------------------|
| Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance | \$ -\$ -\$ | - 12 12 | -\$ -\$ -\$ | 12 114 126 | -\$ -\$ -\$ | 126 235 361 | -\$ -\$ -\$ | 361 3,555 3,915 | -\$ -\$ -\$ | 3,915 44,546 48,461 | -\$ -\$ -\$ | 48,461 230,939 279,400 | -\$ -\$ -\$ | 279,400 432,470 711,870 | -\$ -\$ -\$ | 711,870 485,309 1,197,179 |
| Net Book Value Opening Balance Closing Balance Average Net Book Value | \$ \$ \$ | - 106 53 | \$ \$ | 106 895 501 | \$ \$ \$ | 895 968 931 | \$ \$ \$ | 968 30,305 15,636 | \$ \$ | 30,305 362,776 196,541 | \$ \$ \$ | 362,776 1,618,752 990,764 | \$ \$ \$ | 1,618,752 1,714,677 1,666,714 | \$ \$ \$ | 1,714,677 1,229,367 1,472,022 |
| 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 | \$ | | \$ \$ | - | \$ \$ | - | \$ \$ | - | \$ \$ \$ | 4,071 | \$ \$ \$ | 4,071 - 4,071 | \$ \$ \$ | 4,071 - 4,071 | \$ \$ | 4,071 - 4,071 |
| Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance | \$ | | \$ \$ \$ | - | \$ \$ \$ | | \$ \$ \$ | - | \$ -\$ -\$ | 204 | -\$ -\$ -\$ | 204 407 611 | -\$ -\$ -\$ | 611 407 1,018 | -\$ -\$ -\$ | 1,018 407 1,425 |
| Net Book Value Opening Balance Closing Balance Average Net Book Value | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ | | \$ \$ \$ | 3,867 3,460 3,664 | \$ \$ | 3,460 3,053 3,257 | \$ \$ | 3,053 2,646 2,850 |
| Net Fixed Assets - Other Equipment Gross Book Value Opening Balance | | | \$ | _ | \$ | _ | \$ | _ | \$ | _ | \$ | 27,339 | \$ | 33,033 | \$ | 33,033 |
| Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance | \$ \$ | - | \$ \$ | - | \$ \$ \$ | - | \$ \$ | - | \$ \$ | 27,339 27,339 | \$ \$ | 5,694 33,033 | \$ \$ \$ | 33,033 | \$ \$ \$ | 33,033 |
| Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance | \$ \$ \$ | - | \$ \$ \$ | | \$ \$ | | \$ \$ | | \$ -\$ -\$ | 1,367 1,367 | -\$ -\$ -\$ | 1,367 3,019 4,386 | -\$ -\$ -\$ | 4,386 3,303 7,689 | -\$ -\$ -\$ | 7,689 3,303 10,992 |
| Net Book Value Opening Balance Closing Balance Average Net Book Value | \$ \$ \$ | - | \$ \$ | - | \$ \$ | - - | \$ \$ \$ | - | \$ \$ | 25,972 12,986 | \$ \$ | 25,972 28,647 27,310 | \$ \$ \$ | 28,647 25,344 26,996 | \$ \$ \$ | 25,344 22,041 23,692 |



Ontario Energy Board Smart Meter Model

Bluewater Power Distribution Corporation

| | | 2006 | | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | | 2013 |
|--|---------|--------|----------|--------|--------|--------|-----|--------|---------|-----------|-----|------------|--------|----------------------------------|----|-----------|
| Average Net Fixed Asset Values (from Sheet 4) | ¢ | | ¢ | | ¢ | | ¢ | | ¢ | 1 226 202 | ¢ | 0 700 647 | ¢ | 0 705 044 | ¢ | 0 504 006 |
| Smart Meters | \$ • | - | \$ \$ | - | ې ۲ | - | \$ | - | \$ • | 1,326,393 | \$ | 2,762,517 | \$ | 2,785,044 | \$ | 2,591,236 |
| Computer Hardware | \$ | - | \$ | - | \$ | 1,196 | \$ | 17,451 | \$ | 111,293 | \$ | 171,198 | \$ | 129,631 | \$ | 84,257 |
| Computer Software | \$ | 53 | \$ | 501 | \$ | 931 | \$ | 15,636 | \$ | 196,541 | \$ | 990,764 | \$ | 1,666,714 | \$ | 1,472,022 |
| Tools & Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 1,934 | \$ | 3,664 | \$ | 3,257 | \$ | 2,850 |
| Other Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 12,986 | \$ | 27,310 | \$ | 26,996 | \$ | 23,692 |
| Total Net Fixed Assets | \$ | 53 | \$ | 501 | \$ | 2,128 | \$ | 33,087 | \$ | 1,649,146 | \$ | 3,955,452 | \$ | 4,611,641 | \$ | 4,174,057 |
| Working Capital | | | | | | | | | | | | | | | | |
| Operating Expenses (from Sheet 2) | \$ | 12,109 | \$ | 23,205 | \$ | 18,773 | \$ | 15,477 | \$ | 128,522 | \$ | 219,494 | \$ | 173,359 | \$ | - |
| Working Capital Factor (from Sheet 3) | | 15% | | 15% | | 15% | | 12% | | 12% | | 12% | | 12% | | 12% |
| Working Capital Allowance | \$ | 1,816 | \$ | 3,481 | \$ | 2,816 | \$ | 1,857 | \$ | 15,423 | \$ | 26,339 | \$ | 20,803 | \$ | - |
| Incremental Smart Meter Rate Base | \$ | 1,869 | \$ | 3,981 | \$ | 4,943 | \$ | 34,944 | \$ | 1,664,569 | \$ | 3,981,791 | \$ | 4,632,444 | \$ | 4,174,057 |
| Return on Rate Base | | | | | | | | | | | | | | | | |
| Capital Structure | | | | | | | | | | | | | | | | |
| Deemed Short Term Debt | \$ | - | \$ | - | \$ | - | \$ | 1,398 | \$ | 66,583 | \$ | 159,272 | \$ | 185,298 | \$ | 166,962 |
| Deemed Long Term Debt | \$ | 935 | \$ | 1,991 | \$ | 2,635 | \$ | 18,416 | \$ | 932,159 | \$ | 2,229,803 | \$ | 2,594,169 | \$ | 2,337,472 |
| Equity | \$ | 935 | \$ | 1,991 | \$ | 2,309 | \$ | 15,131 | \$ | 665,828 | \$ | 1,592,717 | \$ | 1,852,978 | \$ | 1,669,623 |
| Preferred Shares | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | _ |
| Total Capitalization | \$ | 1,869 | \$ | 3,981 | \$ | 4,943 | \$ | 34,944 | \$ | 1,664,569 | \$ | 3,981,791 | \$ | 4,632,444 | \$ | 4,174,057 |
| | Ψ | 1,009 | Ψ | 3,301 | Ψ | 7,070 | Ψ | 54,544 | Ψ | 1,004,009 | Ψ | 5,501,751 | Ψ | 7,002,777 | Ψ | 4,174,007 |
| Return on | • | | • | | • | | • | 10 | | | • | | • | - <i>i</i> - <i>i</i> - <i>i</i> | • | 0.001 |
| Deemed Short Term Debt | \$ | - | \$ | - | \$ | - | \$ | 19 | \$ | 886 | \$ | 2,118 | \$ | 2,464 | \$ | 2,221 |
| Deemed Long Term Debt | \$ | 68 | \$ | 144 | \$ | 191 | \$ | 1,403 | \$ | 71,030 | \$ | 169,911 | \$ | 197,676 | \$ | 178,115 |
| Equity | \$ | 84 | \$ | 179 | \$ | 208 | \$ | 1,212 | \$ | 53,333 | \$ | 127,577 | \$ | 148,424 | \$ | 133,737 |
| Preferred Shares | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| Total Return on Capital | \$ | 152 | \$ | 323 | \$ | 399 | \$ | 2,634 | \$ | 125,249 | \$ | 299,606 | \$ | 348,564 | \$ | 314,073 |
| Operating Expenses | \$ | 12,109 | \$ | 23,205 | \$ | 18,773 | \$ | 15,477 | \$ | 128,522 | \$ | 219,494 | \$ | 173,359 | \$ | - |
| Amortization Expenses (from Sheet 4) | | | | | | | | | | | | | | | | |
| Smart Meters | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 91,475 | \$ | 196,827 | \$ | 211,955 | \$ | 213,206 |
| Computer Hardware | \$ | - | \$ | - | \$ | 266 | \$ | 3,937 | \$ | 25,666 | \$ | 44,681 | \$ | 45,374 | \$ | 45,374 |
| Computer Software | \$ | 12 | \$ | 114 | \$ | 235 | \$ | 3,555 | \$ | 44,546 | \$ | 230,939 | \$ | 432,470 | \$ | 485,309 |
| Tools & Equipment | \$ | - | \$ | - | \$ | | Ŝ | - | Ŝ | 204 | Ŝ | 407 | \$ | 407 | \$ | 407 |
| Other Equipment | \$ | - | ŝ | - | \$ | _ | \$ | - | \$ | 1,367 | \$ | 3,019 | \$ | 3,303 | \$ | 3,303 |
| Total Amortization Expense in Year | \$ | 12 | \$ | 114 | \$ | 501 | \$ | 7,492 | \$ | 163,257 | \$ | 475,873 | \$ | 693,509 | \$ | 747,600 |
| Incremental Revenue Requirement before Taxes/PILs | \$ | 12,273 | \$ | 23,643 | \$ | 19,672 | \$ | 25,602 | \$ | 417,028 | \$ | 994,972 | \$ | 1,215,431 | \$ | 1,061,672 |
| Calculation of Taxable Income | | | | | | | | | | | | | | | | |
| Incremental Operating Expenses | ¢ | 10 100 | ¢ | 23,205 | ¢ | 18,773 | ¢ | 15,477 | ¢ | 128,522 | ¢ | 219,494 | \$ | 173,359 | ¢ | |
| | \$ | 12,109 | \$ | | \$ | | \$ | | \$ | | \$ | | φ Φ | | \$ | - |
| Amortization Expense | \$ | 12 | \$ | 114 | \$ | 501 | \$ | 7,492 | \$ | 163,257 | \$ | 475,873 | \$ | 693,509 | \$ | 747,600 |
| Interest Expense | \$ | 68 | \$ | 144 | \$ | 191 | \$ | 1,422 | \$ | 71,916 | \$ | 172,029 | \$ | 200,140 | \$ | 180,336 |
| Net Income for Taxes/PILs | \$ | 84 | \$ | 179 | \$ | 208 | \$ | 1,212 | \$ | 53,333 | \$ | 127,577 | \$ | 148,424 | \$ | 133,737 |
| Grossed-up Taxes/PILs (from Sheet 7) | \$ | 44.55 | \$ | 74.13 | \$ | 13.80 | -\$ | 976.81 | -\$ | 70,687.67 | -\$ | 125,093.58 | -\$ | 73,447.64 | \$ | - |
| Revenue Requirement, including Grossed-up Taxes/PILs | \$ | 12,317 | \$ | 23,717 | \$ | 19,686 | \$ | 24,626 | \$ | 346,341 | \$ | 869,879 | \$ | 1,141,984 | \$ | 1,061,672 |
| | | | | | | | | | | | | | | | | |





For PILs Calculation

| UCC - Smart Meters | | 006 d Actual | | 2007 ted Actual | Au | 2008 dited Actual | Αι | 2009 udited Actual | A | 2010 udited Actual | A | 2011 udited Actual | | 2012 Forecast | | 2013 Forecast |
|---|---|--|----------------|---|--|--|--|--|----------------|--|--|---|--|---|--|---|
| Opening UCC Capital Additions Retirements/Removals (if applicable) | \$ \$ | : | \$ \$ | : | \$ \$ | : | \$ \$ | : | \$ \$ | - 2,744,261.37 | \$ \$ | 2,469,835.23 416,289.50 | \$ \$ | 2,350,528.73 37,545.47 | \$ \$ | 1,914,213.90 - |
| UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | | \$ \$ \$ | 2,744,261.37 1,372,130.68 1,372,130.68 | \$ \$ \$ | 2,886,124.73 208,144.75 2,677,979.98 | \$ \$ \$ | 2,388,074.20 18,772.73 2,369,301.46 | \$ \$ \$ | 1,914,213.90 - 1,914,213.90 |
| CCA Rate Class CCA Rate CCA | ÷ 2(ج | 8 0% | ¢ | 8 20% | ¢ | 8 20% | ¢ | 8 20% | ¢ | 8 20% 274,426.14 | \$ | 8 20% 535,596.00 | \$ | 8 20% 473,860.29 | ¢ | 8 20% 382,842.78 |
| Closing UCC | \$ | - | \$ \$ | - | \$ | | \$ | | \$ | 2,469,835.23 | \$ \$ | 2,350,528.73 | \$ | 1,914,213.90 | \$ | 1,531,371.12 |
| | | | | | | | | | | | | | | | | |
| UCC - Computer Equipment | | 006 d Actual | | 2007 ted Actual | Au | 2008 dited Actual | Αι | 2009 udited Actual | A | 2010 udited Actual | A | 2011 udited Actual | | 2012 Forecast | | 2013 Forecast |
| Opening UCC Capital Additions Computer Hardware | | d Actual - - | | ted Actual 100.29 - | Au \$ \$ | dited Actual 837.56 2,658.25 | Au \$ \$ | udited Actual 3,107.04 34,053.73 | A \$ \$ | udited Actual 59,079.07 183,234.03 | A u \$ \$ | udited Actual 517,568.52 6,921.74 | \$ \$ | Forecast 1,632,059.18 - | \$ \$ | |
| Opening UCC Capital Additions Computer Hardware Capital Additions Computer Software Retirements/Removals (if applicable) | | d Actual - - 117.99 | | ted Actual 100.29 - 902.78 | Au \$ \$ \$ | dited Actual 837.56 2,658.25 307.33 | Au \$ \$ \$ | udited Actual 3,107.04 34,053.73 32,892.33 | \$ \$ \$ | udited Actual 59,079.07 183,234.03 377,016.76 | Au \$ \$ \$ | udited Actual 517,568.52 6,921.74 1,486,914.99 | \$ \$ \$ | Forecast 1,632,059.18 - 528,394.61 | \$ \$ \$ \$ | Forecast 1,591,576.84 - - |
| Opening UCC Capital Additions Computer Hardware Capital Additions Computer Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC | Audited \$ \$ \$ \$ \$ \$ \$ \$ | d Actual - 117.99 <u>117.99</u> 59.00 59.00 | | ted Actual 100.29 - 902.78 1,003.07 451.39 551.68 | Au \$ \$ \$ \$ \$ \$ | dited Actual 837.56 2,658.25 307.33 3,803.14 1,482.79 2,320.35 | Au \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 3,107.04 34,053.73 32,892.33 70,053.09 33,473.03 36,580.06 | | udited Actual 59,079.07 183,234.03 377,016.76 619,329.86 280,125.39 339,204.47 | Au \$ \$ \$ \$ \$ \$ \$ | udited Actual 517,568.52 6,921.74 1,486,914.99 2,011,405.25 746,918.36 1,264,486.88 | \$ \$ \$ \$ \$ \$ \$ | Forecast 1,632,059.18 - 528,394.61 2,160,453.79 264,197.30 1,896,256.49 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Forecast 1,591,576.84 - - 1,591,576.84 - 1,591,576.84 |
| Opening UCC Capital Additions Computer Hardware Capital Additions Computer Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) | Audited \$ \$ \$ \$ \$ \$ \$ | d Actual - 117.99 <u>117.99</u> 59.00 | | ted Actual 100.29 902.78 1,003.07 451.39 | Au \$ \$ \$ \$ \$ \$ \$ | dited Actual 837.56 2,658.25 307.33 3,803.14 1,482.79 | Au \$ \$ \$ \$ \$ \$ \$ | adited Actual 3,107.04 34,053.73 32,892.33 70,053.09 33,473.03 | \$ \$ \$ | udited Actual 59,079.07 183,234.03 377,016.76 619,329.86 280,125.39 | A \$ \$ \$ \$ \$ \$ \$ | udited Actual 517,568.52 6,921.74 1,486,914.99 2,011,405.25 746,918.36 | \$ \$ \$ \$ \$ \$ | Forecast 1,632,059.18 - 528,394.61 2,160,453.79 264,197.30 | \$ \$ \$ \$ \$ \$ \$ \$ \$ | Forecast 1,591,576.84 - - 1,591,576.84 - |



| UCC - General Equipment | | 006 d Actual | | 007 ed Actual | 2008 ted Actual | Aud | 2009 ited Actual | Au | 2010 Idited Actual | Au | 2011 dited Actual | | 2012 Forecast | | 2013 Forecast |
|--|---|--|--------------------------------------|------------------|--|-----------------------------------|---|----------------------------------|-------------------------|----------------------------------|----------------------|----------------------|--|--|--|
| Opening UCC | \$ | - | \$ | - | \$ - | \$ | - | \$ | - | \$ | 28,268.89 | \$ | 27,739.54 | \$ | 22,191.63 |
| Capital Additions Tools & Equipment | \$ | - | \$ | - | \$ - | \$ | - | \$ | 4,070.72 | \$ | - | \$ | - | \$ | - |
| Capital Additions Other Equipment | \$ | - | \$ | - | \$ - | \$ | - | \$ | 27,339.16 | \$ | 5,693.80 | \$ | - | \$ | - |
| Retirements/Removals (if applicable) | | | | | | | | | | | | | | | |
| UCC Before Half Year Rule | \$ | - | \$ | - | \$ - | \$ | - | \$ | 31,409.88 | \$ | 33,962.69 | \$ | 27,739.54 | \$ | 22,191.63 |
| Half Year Rule (1/2 Additions - Disposals) | \$ | - | \$ | - | \$ - | \$ | - | \$ | 15,704.94 | \$ | 2,846.90 | \$ | - | \$ | - |
| Reduced UCC | \$ | - | \$ | - | \$ - | \$ | - | \$ | 15,704.94 | \$ | 31,115.79 | \$ | 27,739.54 | \$ | 22,191.63 |
| CCA Rate Class | | 8 | | 8 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 |
| CCA Rate | 2 | 0% | 2 | 20% | 20% | | 20% | | 20% | | 20% | | 20% | | 20% |
| CCA | \$ | - | \$ | - | \$ - | \$ | - | \$ | 3,140.99 | \$ | 6,223.16 | \$ | 5,547.91 | \$ | 4,438.33 |
| Closing UCC | \$ | - | \$ | - | \$ - | \$ | - | \$ | 28,268.89 | \$ | 27,739.54 | \$ | 22,191.63 | \$ | 17,753.30 |
| | | | | | | | | | | | | | | | |
| UCC - Applications Software | 2 | 006 | 2 | 007 | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | | 2013 |
| UCC - Applications Software | | 006 d Actual | | 007 ed Actual | 2008 ted Actual | Aud | 2009 ited Actual | Au | 2010 Idited Actual | Au | 2011 dited Actual | | 2012 Forecast | | 2013 Forecast |
| | | | | | | Aud \$ | | Au \$ | | Au \$ | | \$ | | \$ | |
| Opening UCC | | | | | | Aud \$ \$ | | Au \$ \$ | | Au \$ \$ | | \$ \$ | | \$ | |
| Opening UCC Capital Additions Applications Software | | | | | | Aud \$ \$ | | Au \$ \$ | | Au \$ \$ | | \$ \$ | | \$ \$ | |
| Opening UCC | | | | | | Aud \$ \$ \$ | | Au \$ \$ \$ | | Au \$ \$ \$ | | \$ \$ \$ | | \$ \$ | |
| Opening UCC Capital Additions Applications Software Retirements/Removals (if applicable) UCC Before Half Year Rule | | | | | | Aud \$ \$ \$ \$ | | Au \$ \$ \$ \$ | idited Actual - - | Au \$ \$ \$ \$ | | \$ \$ \$ | | \$ \$ \$ | |
| Opening UCC Capital Additions Applications Software Retirements/Removals (if applicable) | | | | | | Aud \$ \$ \$ \$ \$ | | Au \$ \$ \$ \$ \$ | idited Actual - - | Au \$ \$ \$ \$ \$ | | \$ \$ \$ \$ | | \$ \$ \$ \$ \$ \$ \$ | |
| Opening UCC Capital Additions Applications Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) | | | | | | Aud \$ \$ \$ \$ \$ | | Au \$ \$ \$ \$ \$ | idited Actual - - | Au \$ \$ \$ \$ \$ | | \$ \$ \$ \$ | | \$ \$ \$ \$ \$ \$ \$ | |
| Opening UCC Capital Additions Applications Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC | Audite \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | | Audite \$ \$ \$ \$ \$ | | | Aud \$ \$ \$ \$ \$ | | Au \$ \$ \$ \$ \$ | idited Actual - - | Au \$ \$ \$ \$ \$ | | \$ \$ \$ \$ | | \$ \$ \$ \$ \$ \$ | |
| 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 | Audite \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | d Actual - - - - - 0 | Audite \$ \$ \$ \$ \$ | ed Actual 0 | ted Actual - - - - - 0 | Aud \$ \$ \$ \$ | ited Actual - - - - - 0 | Au \$ \$ \$ \$ \$ | Idited Actual 0 | Au \$ \$ \$ \$ \$ | dited Actual 0 | \$ \$ \$ \$ | Forecast - - - - - 0 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Forecast - - - - - 0 |



Bluewater Power Distribution Corporation

PILs Calculation

| | | 2006 Auc Ac | ited tual | | 2007 Audited Actual | | 2008 Audited Actual | | 2009 Audited Actual | | 2010 Audited Actual | | 2011 Audited Actual | | 2012 Forecast | | 2013 Forecast |
|--------|---|-------------------|--------------|-----|------------------------|-----|------------------------|-----|------------------------|-----|------------------------|-----|------------------------|-----|---------------|-----|---------------|
| INCOME | ΞΤΑΧ | | | | | | | | | | | | | | | | |
| | Net Income | \$ 84 | .12 | \$ | 179.17 | \$ | 207.77 | \$ | 1,211.98 | \$ | 53,332.79 | \$ | 127,576.60 | \$ | 148,423.52 | \$ | 133,736.79 |
| | Amortization | \$ 1 ⁻ | .80 | \$ | 113.88 | \$ | 500.71 | \$ | 7,491.87 | \$ | 163,257.43 | \$ | 475,873.06 | \$ | 693,508.72 | \$ | 747,599.69 |
| | CCA - Smart Meters | \$ | - | \$ | - | \$ | - | \$ | | -\$ | 274,426.14 | -\$ | 535,596.00 | -\$ | 473,860.29 | -\$ | 382,842.78 |
| | CCA - Computers | -\$ 17 | .70 | -\$ | 165.50 | -\$ | 696.11 | -\$ | 10,974.02 | -\$ | 101,761.34 | -\$ | 379,346.07 | -\$ | 568,876.95 | -\$ | 477,473.05 |
| | CCA - Applications Software | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| | CCA - Other Equipment | \$ | - | \$ | - | \$ | - | \$ | - | -\$ | 3,140.99 | -\$ | 6,223.16 | -\$ | 5,547.91 | -\$ | 4,438.33 |
| | Change in taxable income | \$ 78 | .22 | \$ | 127.54 | \$ | 12.38 | -\$ | 2,270.16 | -\$ | 162,738.24 | -\$ | 317,715.56 | -\$ | 206,352.91 | \$ | 16,582.33 |
| | Tax Rate (from Sheet 3) | 36. | 12% | | 36.12% | | 33.50% | | 33.00% | | 31.00% | | 28.25% | | 26.25% | | 25.50% |
| | Income Taxes Payable | \$ 28 | .25 | \$ | 46.07 | \$ | 4.15 | -\$ | 749.15 | -\$ | 50,448.85 | -\$ | 89,754.65 | -\$ | 54,167.64 | \$ | 4,228.49 |
| ONTAR | ΙΟ CAPITAL ΤΑΧ | | | | | | | | | | | | | | | | |
| | Smart Meters | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 2,652,785.99 | \$ | 2,872,248.41 | \$ | 2,697,838.97 | \$ | 2,484,632.55 |
| | Computer Hardware | \$ | - | \$ | - | \$ | 2,392.43 | \$ | 32,509.13 | \$ | 190,077.36 | \$ | 152,317.73 | \$ | 106,944.18 | \$ | 61,570.63 |
| | Computer Software | ¢ 100 | .19 | \$ | 895.09 | ¢ | 967.53 | \$ | 30,305.01 | ¢ | 362,776.01 | ¢ | 1,618,752.06 | \$ | 1,714,676.77 | ¢ | 1,229,367.42 |
| | (Including Application Software) | φ ΙΟ | . 19 | Φ | 695.09 | \$ | 907.55 | φ | 30,305.01 | \$ | 302,770.01 | \$ | 1,010,752.00 | Φ | 1,714,070.77 | Φ | 1,229,307.42 |
| | Tools & Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 3,867.19 | \$ | 3,460.12 | \$ | 3,053.04 | \$ | 2,645.97 |
| | Other Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 25,972.20 | \$ | 28,647.39 | \$ | 25,344.10 | \$ | 22,040.80 |
| | Rate Base Less: Exemption | \$ 106 | .19 | \$ | 895.09 | \$ | 3,359.96 | \$ | 62,814.14 | \$ | 3,235,478.74 | \$ | 4,675,425.70 | \$ | 4,547,857.06 | \$ | 3,800,257.36 |
| | Deemed Taxable Capital | \$ 100 | .19 | \$ | 895.09 | \$ | 3,359.96 | \$ | 62,814.14 | \$ | 3,235,478.74 | \$ | 4,675,425.70 | \$ | 4,547,857.06 | \$ | 3,800,257.36 |
| | Ontario Capital Tax Rate (from Sheet 3) | 0.3 | 00% | | 0.225% | | 0.225% | | 0.225% | | 0.075% | | 0.000% | | 0.000% | | 0.000% |
| | Net Amount (Taxable Capital x Rate) | \$ (| .32 | \$ | 2.01 | \$ | 7.56 | \$ | 141.33 | \$ | 2,426.61 | \$ | - | \$ | - | \$ | - |
| | | | | | | | | | | | | | | | | | |
| | Change in Income Taxes Payable | \$ 28 | .25 | \$ | 46.07 | \$ | 4.15 | -\$ | 749.15 | -\$ | 50,448.85 | -\$ | 89,754.65 | -\$ | 54,167.64 | \$ | 4,228.49 |
| | Change in OCT | | .32 | \$ | 2.01 | \$ | 7.56 | \$ | 141.33 | \$ | 2,426.61 | \$ | - | \$ | - | \$ | - |
| | PILs | \$ 28 | .57 | \$ | 48.08 | \$ | 11.71 | -\$ | 607.82 | -\$ | 48,022.24 | -\$ | 89,754.65 | -\$ | 54,167.64 | \$ | 4,228.49 |
| Gross | Up PILs | | | | | | | | | | | | | | | | |
| | Tax Rate | 36. | 12% | | 36.12% | | 33.50% | | 33.00% | | 31.00% | | 28.25% | | 26.25% | | 25.50% |
| | Change in Income Taxes Payable | | .23 | \$ | 72.11 | \$ | 6.24 | -\$ | 1,118.14 | -\$ | 73,114.28 | -\$ | 125,093.58 | -\$ | 73,447.64 | \$ | 5,675.83 |
| | Change in OCT | | .32 | \$ | 2.01 | \$ | 7.56 | \$ | 141.33 | \$ | 2,426.61 | \$ | - | \$ | - | \$ | - |
| | PILs | \$ 44 | .55 | \$ | 74.13 | \$ | 13.80 | -\$ | 976.81 | -\$ | 70,687.67 | -\$ | 125,093.58 | -\$ | 73,447.64 | \$ | 5,675.83 |
| | | | | | | | | | | | | | | | | | |





Account 1555 - Sub-account Funding Adder Revenues

| Interest Rates | Approved Deferral and Variance Accounts | CWIP | Date | Year | Quarter | C |)pening Balance (Principal) | F | unding Adder Revenues | Interest Rate | | Interest | Clo | sing Balance | Ann | ual amounts | E |
|----------------|---|--------|--------|------|---------|----|--------------------------------|----|--------------------------|------------------|----|----------|-----|--------------|-----|-------------|-----|
| | | | | | | • | , | _ | | | • | | • | - | | | |
| 2006 Q1 | 4.4.0/ | 4.000/ | 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 | \$ | - | \$ | 45,940.12 | 4.59% | | - | \$ | 45,940.12 | | | |
| 2008 Q3 | 3.35% | 5.43% | Nov-06 | 2006 | Q4 | \$ | 45,940.12 | \$ | 7,730.38 | 4.59% | | 175.72 | \$ | 53,846.22 | | | |
| 2008 Q4 | 3.35% | 5.43% | Dec-06 | 2006 | Q4 | \$ | 53,670.50 | | 7,406.04 | 4.59% | | 205.29 | | 61,281.83 | \$ | 61,457.55 |) |
| 2009 Q1 | 2.45% | 6.61% | Jan-07 | 2007 | Q1 | \$ | 61,076.54 | \$ | 11,499.04 | 4.59% | | 233.62 | | 72,809.20 | | | |
| 2009 Q2 | 1.00% | 6.61% | Feb-07 | 2007 | Q1 | \$ | 72,575.58 | | 6,182.78 | 4.59% | - | 277.60 | - | 79,035.96 | | | |
| 2009 Q3 | 0.55% | 5.67% | Mar-07 | 2007 | Q1 | \$ | 78,758.36 | | 10,835.31 | 4.59% | | 301.25 | | 89,894.92 | | | |
| 2009 Q4 | 0.55% | 4.66% | Apr-07 | 2007 | Q2 | \$ | 89,593.67 | \$ | 6,448.78 | 4.59% | | 342.70 | - | 96,385.14 | | | |
| 2010 Q1 | 0.55% | 4.34% | May-07 | 2007 | Q2 | \$ | 96,042.44 | \$ | 6,448.78 | 4.59% | \$ | 367.36 | \$ | 102,858.58 | | | |
| 2010 Q2 | 0.55% | 4.34% | Jun-07 | 2007 | Q2 | \$ | 102,491.22 | \$ | 10,626.03 | 4.59% | - | 392.03 | | 113,509.28 | | | |
| 2010 Q3 | 0.89% | 4.66% | Jul-07 | 2007 | Q3 | \$ | 113,117.25 | \$ | 10,178.30 | 4.59% | \$ | 432.67 | \$ | 123,728.23 | | | |
| 2010 Q4 | 1.20% | 4.01% | Aug-07 | 2007 | Q3 | \$ | 123,295.56 | \$ | 8,246.17 | 4.59% | \$ | 471.61 | \$ | 132,013.34 | | | |
| 2011 Q1 | 1.47% | 4.29% | Sep-07 | 2007 | Q3 | \$ | 131,541.73 | \$ | 8,242.70 | 4.59% | \$ | 503.15 | \$ | 140,287.58 | | | 1 |
| 2011 Q2 | 1.47% | 4.29% | Oct-07 | 2007 | Q4 | \$ | 139,784.43 | \$ | 9,059.21 | 5.14% | \$ | 598.74 | \$ | 149,442.38 | | | |
| 2011 Q3 | 1.47% | 4.29% | Nov-07 | 2007 | Q4 | \$ | 148,843.64 | \$ | 9,007.82 | 5.14% | \$ | 637.55 | \$ | 158,489.02 | | | |
| 2011 Q4 | 1.47% | 3.92% | Dec-07 | 2007 | Q4 | \$ | 157,851.47 | \$ | 7,114.81 | 5.14% | \$ | 676.13 | \$ | 165,642.41 | \$ | 109,124.15 | j I |
| 2012 Q1 | 1.47% | 3.92% | Jan-08 | 2008 | Q1 | \$ | 164,966.28 | \$ | 11,165.67 | 5.14% | \$ | 706.61 | \$ | 176,838.56 | | | |
| 2012 Q2 | 1.47% | 3.51% | Feb-08 | 2008 | Q1 | \$ | 176,131.95 | \$ | 6,368.21 | 5.14% | \$ | 754.43 | \$ | 183,254.59 | | | |
| 2012 Q3 | 1.47% | 3.51% | Mar-08 | 2008 | Q1 | \$ | 182,500.16 | \$ | 9,184.92 | 5.14% | \$ | 781.71 | \$ | 192,466.79 | | | 1 |
| 2012 Q4 | 1.47% | 3.51% | Apr-08 | 2008 | Q2 | \$ | 191,685.08 | \$ | 8,986.06 | 4.08% | \$ | 651.73 | \$ | 201,322.87 | | | |
| 2013 Q1 | | | May-08 | 2008 | Q2 | \$ | 200,671.14 | \$ | 9,135.61 | 4.08% | \$ | 682.28 | \$ | 210,489.03 | | | |
| 2013 Q2 | | | Jun-08 | 2008 | Q2 | \$ | 209,806.75 | | 7,461.14 | 4.08% | \$ | 713.34 | \$ | 217,981.23 | | | |
| 2013 Q3 | | | Jul-08 | 2008 | Q3 | \$ | 217,267.89 | \$ | 10,708.22 | 3.35% | \$ | 606.54 | \$ | 228,582.65 | | | - |



Board Approved Smart Meter Funding Adder (from Tariff)

| | \$ 0.89 |
|------------|------------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | \$ 0.26 |
| | \$ 0.26 |
| 61,457.55 | \$ 0.26 |
| | \$ 0.26 |
| 109,124.15 | \$ 0.26 |
| | \$ 0.26 |



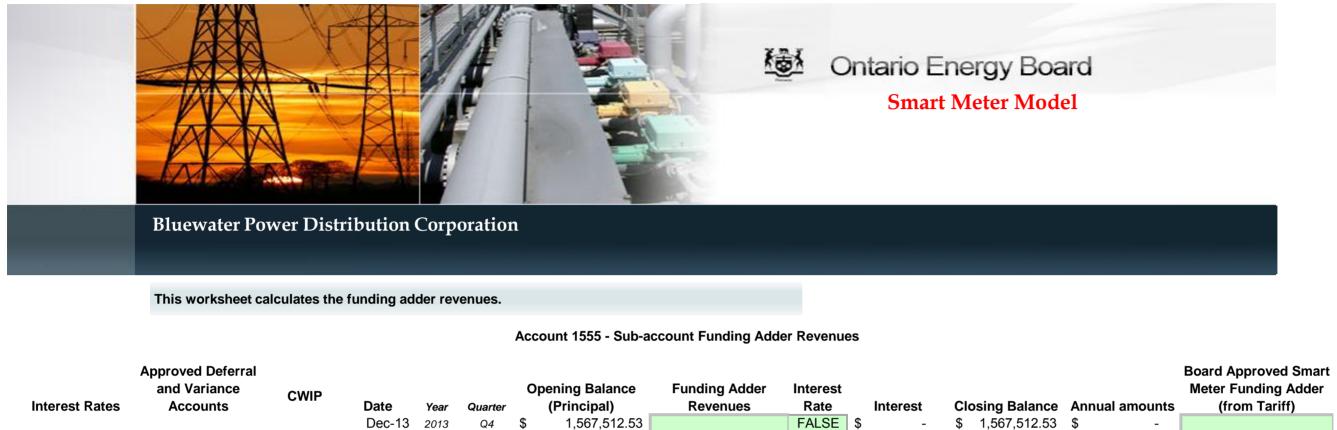
Account 1555 - Sub-account Funding Adder Revenues

| | Approved Deferral and Variance | CWIP | | | | 0 | pening Balance | F | Funding Adder | Interest | | | | | | rd Approved Smart ter Funding Adder |
|----------------|-----------------------------------|------|--------|------|---------|----|----------------|----|---------------|----------|----------|----|---------------|-----|--------------|--|
| Interest Rates | Accounts | CWIF | Date | Year | Quarter | | (Principal) | | Revenues | Rate | Interest | | osing Balance | Anr | nual amounts | (from Tariff) |
| 2013 Q4 | | | Aug-08 | 2008 | Q3 | \$ | 227,976.11 | \$ | 6,540.91 | 3.35% \$ | | \$ | 235,153.45 | | | \$ 0.26 |
| | | | Sep-08 | 2008 | Q3 | \$ | 234,517.02 | | 7,000.22 | 3.35% \$ | | | 242,171.93 | | | \$ 0.26 |
| | | | Oct-08 | 2008 | Q4 | \$ | 241,517.24 | | 8,905.50 | 3.35% \$ | | | 251,096.98 | | | \$ 0.26 |
| | | | Nov-08 | 2008 | Q4 | \$ | 250,422.74 | | 8,355.67 | 3.35% \$ | | | 259,477.51 | | | \$ 0.26 |
| | | | Dec-08 | 2008 | Q4 | \$ | 258,778.41 | | 10,071.81 | 3.35% \$ | 722.42 | | 269,572.65 | \$ | 112,167.47 | \$ 0.26 |
| | | | Jan-09 | 2009 | Q1 | \$ | 268,850.23 | | 11,672.89 | 2.45% \$ | | | 281,072.02 | | | \$ 0.26 |
| | | | Feb-09 | 2009 | Q1 | \$ | 280,523.12 | | 6,222.83 | 2.45% \$ | | | 287,318.68 | | | \$ 0.26 |
| | | | Mar-09 | 2009 | Q1 | \$ | 286,745.95 | | 10,288.50 | 2.45% \$ | | | 297,619.89 | | | \$ 0.26 |
| | | | Apr-09 | 2009 | Q2 | \$ | 297,034.45 | | 8,217.70 | 1.00% \$ | | | 305,499.68 | | | \$ 0.26 |
| | | | May-09 | 2009 | Q2 | \$ | 305,252.15 | | 9,287.71 | 1.00% \$ | | | 314,794.23 | | | \$ 0.26 |
| | | | Jun-09 | 2009 | Q2 | \$ | 314,539.85 | | 7,475.26 | 1.00% \$ | | | 322,277.24 | | | \$ 0.26 |
| | | | Jul-09 | 2009 | Q3 | \$ | 322,015.12 | | 11,035.56 | 0.55% \$ | | | 333,198.27 | | | \$ 0.26 |
| | | | Aug-09 | 2009 | Q3 | \$ | 333,050.68 | | 6,153.46 | 0.55% \$ | | | 339,356.79 | | | \$ 0.26 |
| | | | Sep-09 | 2009 | Q3 | \$ | 339,204.14 | | 9,457.32 | 0.55% \$ | | | 348,816.93 | | | \$ 0.26 |
| | | | Oct-09 | 2009 | Q4 | \$ | 348,661.46 | | 6,926.11 | 0.55% \$ | | | 355,747.37 | | | \$ 0.26 |
| | | | Nov-09 | 2009 | Q4 | \$ | 355,587.57 | | 8,887.79 | 0.55% \$ | | | 364,638.35 | | | \$ 0.26 |
| | | | Dec-09 | 2009 | Q4 | \$ | 364,475.37 | | 7,107.37 | 0.55% \$ | | | 371,749.78 | \$ | 106,149.15 | 0.26 |
| | | | Jan-10 | 2010 | Q1 | \$ | 371,582.73 | | 9,848.88 | 0.55% \$ | | | 381,601.93 | | | \$ 0.26 |
| | | | Feb-10 | 2010 | Q1 | \$ | 381,431.62 | | 6,357.70 | 0.55% \$ | | | 387,964.13 | | | \$ 0.26 |
| | | | Mar-10 | 2010 | Q1 | \$ | 387,789.31 | | 10,891.17 | 0.55% \$ | | | 398,858.22 | | | \$ 0.26 |
| | | | Apr-10 | 2010 | Q2 | \$ | 398,680.48 | | 5,938.87 | 0.55% \$ | | - | 404,802.08 | | | \$ 0.26 |
| | | | May-10 | 2010 | Q2 | \$ | 404,619.35 | | 10,202.76 | 0.55% \$ | | | 415,007.56 | | | \$ 1.00 |
| | | | Jun-10 | 2010 | Q2 | \$ | 414,822.11 | | 16,095.12 | 0.55% \$ | | | 431,107.36 | | | \$ 1.00 |
| | | | Jul-10 | 2010 | Q3 | \$ | 430,917.23 | | 23,149.78 | 0.89% \$ | | | 454,386.60 | | | \$ 1.00 |
| | | | Aug-10 | 2010 | Q3 | \$ | 454,067.00 | | 39,266.85 | 0.89% \$ | | | 493,670.63 | | | \$ 1.00 |
| | | | Sep-10 | 2010 | Q3 | \$ | 493,333.86 | | 32,730.94 | 0.89% \$ | | | 526,430.69 | | | \$ 1.00 |
| | | | Oct-10 | 2010 | Q4 | \$ | 526,064.80 | | 29,390.60 | 1.20% \$ | | | 555,981.46 | | | \$ 1.00 |
| | | | Nov-10 | 2010 | Q4 | \$ | 555,455.40 | | 34,490.09 | 1.20% \$ | 555.46 | | 590,500.95 | • | 040 400 64 | \$ 1.00 |
| | | | Dec-10 | 2010 | Q4 | \$ | 589,945.49 | | 27,322.34 | 1.20% \$ | | | 617,857.78 | \$ | 249,460.01 | \$ 1.00 |
| | | | Jan-11 | 2011 | Q1 | \$ | 617,267.83 | | 35,268.77 | 1.47% \$ | | | 653,292.75 | | | \$ 1.00 |
| | | | Feb-11 | 2011 | Q1 | \$ | 652,536.60 | | 29,235.52 | 1.47% \$ | | | 682,571.48 | | | \$ 1.00 |
| | | | Mar-11 | 2011 | Q1 | \$ | 681,772.12 | \$ | 38,353.85 | 1.47% \$ | 835.17 | \$ | 720,961.14 | | | \$ 1.00 |



Account 1555 - Sub-account Funding Adder Revenues

| | Approved Deferral and Variance | 0.11/17 | | | | 0 | Opening Balance | F | Funding Adder | Interest | | | | | | | ard Approved Smart eter Funding Adder |
|----------------|-----------------------------------|---------|--------|------|---------|----|-----------------|----|---------------|----------|----|----------|-----|--------------|------|-------------|--|
| Interest Rates | Accounts | CWIP | Date | Year | Quarter | | (Principal) | | Revenues | Rate | | Interest | Clo | sing Balance | Annu | ual amounts | (from Tariff) |
| | | | Apr-11 | 2011 | Q2 | \$ | 720,125.97 | \$ | 25,451.31 | 1.47% | \$ | 882.15 | \$ | 746,459.43 | | | \$ 1.00 |
| | | | May-11 | 2011 | Q2 | \$ | 745,577.28 | \$ | 38,178.15 | 1.47% | \$ | 913.33 | \$ | 784,668.76 | | | \$ 2.00 |
| | | | Jun-11 | 2011 | Q2 | \$ | 783,755.43 | \$ | 39,986.11 | 1.47% | \$ | 960.10 | \$ | 824,701.64 | | | \$ 2.00 |
| | | | Jul-11 | 2011 | Q3 | \$ | 823,741.54 | \$ | 70,410.19 | 1.47% | \$ | 1,009.08 | \$ | 895,160.81 | | | \$ 2.00 |
| | | | Aug-11 | 2011 | Q3 | \$ | 894,151.73 | \$ | 59,425.80 | 1.47% | | 1,095.34 | \$ | 954,672.87 | | | \$ 2.00 |
| | | | Sep-11 | 2011 | Q3 | \$ | 953,577.53 | \$ | 73,505.59 | 1.47% | | 1,168.13 | \$ | 1,028,251.25 | | | \$ 2.00 |
| | | | Oct-11 | 2011 | Q4 | \$ | 1,027,083.12 | \$ | 48,974.82 | 1.47% | - | 1,258.18 | \$ | 1,077,316.13 | | | \$ 2.00 |
| | | | Nov-11 | 2011 | Q4 | \$ | 1,076,057.95 | \$ | 79,658.10 | 1.47% | | 1,318.17 | \$ | 1,157,034.22 | | | \$ 2.00 |
| | | | Dec-11 | 2011 | Q4 | \$ | 1,155,716.05 | _ | 44,050.24 | 1.47% | | 1,415.75 | | 1,201,182.04 | \$ | 594,909.37 | \$ 2.00 |
| | | | Jan-12 | 2012 | Q1 | \$ | 1,199,766.29 | _ | 82,783.65 | 1.47% | | 1,469.71 | | 1,284,019.65 | | | \$ 2.00 |
| | | | Feb-12 | | Q1 | \$ | 1,282,549.94 | \$ | 48,281.40 | 1.47% | | 1,571.12 | | 1,332,402.46 | | | \$ 2.00 |
| | | | Mar-12 | | Q1 | \$ | 1,330,831.34 | \$ | 75,988.79 | 1.47% | | 1,630.27 | \$ | 1,408,450.40 | | | \$ 2.00 |
| | | | Apr-12 | | Q2 | \$ | 1,406,820.13 | _ | 51,354.71 | 1.47% | | 1,723.35 | \$ | 1,459,898.19 | | | \$ 2.00 |
| | | | May-12 | 2012 | Q2 | \$ | 1,458,174.84 | _ | 65,873.13 | 1.47% | | 1,786.26 | | 1,525,834.23 | | | |
| | | | Jun-12 | 2012 | Q2 | \$ | 1,524,047.97 | \$ | 32,936.56 | 1.47% | | 1,866.96 | | 1,558,851.49 | | | |
| | | | Jul-12 | 2012 | Q3 | \$ | 1,556,984.53 | | | 1.47% | | 1,907.31 | \$ | 1,558,891.84 | | | |
| | | | Aug-12 | | Q3 | \$ | 1,556,984.53 | | | 1.47% | | 1,907.31 | \$ | 1,558,891.84 | | | |
| | | | Sep-12 | | Q3 | \$ | 1,556,984.53 | | | 1.47% | | 1,907.31 | \$ | 1,558,891.84 | | | |
| | | | Oct-12 | 2012 | Q4 | \$ | 1,556,984.53 | | | 1.47% | | 1,907.31 | \$ | 1,558,891.84 | | | |
| | | | Nov-12 | 2012 | Q4 | \$ | 1,556,984.53 | | | 0.00% | | - | \$ | 1,556,984.53 | | | |
| | | | Dec-12 | 2012 | Q4 | \$ | 1,556,984.53 | \$ | 10,528.00 | 0.00% | | - | \$ | 1,567,512.53 | \$ | 385,423.15 | |
| | | | Jan-13 | 2013 | Q1 | \$ | 1,567,512.53 | | | 0.00% | - | - | \$ | 1,567,512.53 | | | |
| | | | Feb-13 | 2013 | Q1 | \$ | 1,567,512.53 | | | 0.00% | | - | \$ | 1,567,512.53 | | | |
| | | | Mar-13 | 2013 | Q1 | \$ | 1,567,512.53 | | | 0.00% | - | - | \$ | 1,567,512.53 | | | |
| | | | Apr-13 | 2013 | Q2 | \$ | 1,567,512.53 | | | 0.00% | | - | \$ | 1,567,512.53 | | | |
| | | | May-13 | 2013 | Q2 | \$ | 1,567,512.53 | | | 0.00% | | - | \$ | 1,567,512.53 | | | |
| | | | Jun-13 | 2013 | Q2 | \$ | 1,567,512.53 | | | 0.00% | - | - | \$ | 1,567,512.53 | | | |
| | | | Jul-13 | 2013 | Q3 | \$ | 1,567,512.53 | | | 0.00% | | - | \$ | 1,567,512.53 | | | |
| | | | Aug-13 | 2013 | Q3 | \$ | 1,567,512.53 | | | 0.00% | | - | \$ | 1,567,512.53 | | | |
| | | | Sep-13 | 2013 | Q3 | \$ | 1,567,512.53 | | | 0.00% | | - | \$ | 1,567,512.53 | | | |
| | | | Oct-13 | 2013 | Q4 | \$ | 1,567,512.53 | | | 0.00% | | - | \$ | 1,567,512.53 | | | |
| | | | Nov-13 | 2013 | Q4 | \$ | 1,567,512.53 | | | 0.00% | \$ | - | \$ | 1,567,512.53 | | | |



| Interest Rates | Approved Deferral and Variance Accounts | CWIP | Date Dec-13 | Year 2013 | Quarter Q4 | 0 \$ | Opening Balance (Principal) 1,567,512.53 | F | unding Adder Revenues | Interest Rate FALSE | \$ Interest_ | Clo \$ | osing Balance 1,567,512.53 | inu |
|----------------|---|------|----------------|---------------------|----------------------|---------|--|----|--------------------------|---------------------------|-----------------|-----------|--------------------------------------|----------|
| | | | Total Fund | ing Ad | der Reve | nue | s Collected | \$ | 1,567,512.53 | = | \$ 51,178.31 | \$ | 1,618,690.84 | \$ 1, |

Appendix 3 Response to VECC 7a Residential Model

1,618,690.84



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 | De | nortization / epreciation Expense | Closing Balance (Principal) | (Annual) Interest Rate | Intere ope bala |
|---------------------------------|--|-------|--------|------|---------|--------------------------------|---------------|----|---|--------------------------------|------------------------------|-----------------------|
| 2006 Q1 | 0.00% | 0.00% | Jan-06 | 2006 | Q1 | \$ - | | \$ | 0.90 | 0.90 | 0.00% | |
| 2006 Q2 | 4.14% | 4.68% | Feb-06 | 2006 | Q1 | 0.90 | | | | 0.90 | 0.00% | |
| 2006 Q3 | 4.59% | 5.05% | Mar-06 | 2006 | Q1 | 0.90 | | | | 0.90 | 0.00% | |
| 2006 Q4 | 4.59% | 4.72% | Apr-06 | 2006 | Q2 | 0.90 | | | | 0.90 | 4.14% | |
| 2007 Q1 | 4.59% | 4.72% | May-06 | 2006 | Q2 | 0.90 | \$ 1,432.76 | \$ | - | 1,433.66 | 4.14% | |
| 2007 Q2 | 4.59% | 4.72% | Jun-06 | 2006 | Q2 | 1,433.66 | \$ - | \$ | - | 1,433.66 | 4.14% | |
| 2007 Q3 | 4.59% | 5.18% | Jul-06 | 2006 | Q3 | 1,433.66 | \$ - | \$ | - | 1,433.66 | 4.59% | |
| 2007 Q4 | 5.14% | 5.18% | Aug-06 | 2006 | Q3 | 1,433.66 | \$ - | \$ | - | 1,433.66 | 4.59% | |
| 2008 Q1 | 5.14% | 5.18% | Sep-06 | 2006 | Q3 | 1,433.66 | \$ - | \$ | - | 1,433.66 | 4.59% | |
| 2008 Q2 | 4.08% | 5.18% | Oct-06 | 2006 | Q4 | 1,433.66 | \$ 9,409.24 | \$ | - | 10,842.90 | 4.59% | |
| 2008 Q3 | 3.35% | 5.43% | Nov-06 | 2006 | Q4 | 10,842.90 | \$ 1,158.24 | \$ | - | 12,001.15 | 4.59% | |
| 2008 Q4 | 3.35% | 5.43% | Dec-06 | 2006 | Q4 | 12,001.15 | \$ 108.58 | \$ | 15.32 | 12,125.05 | 4.59% | |
| 2009 Q1 | 2.45% | 6.61% | Jan-07 | 2007 | Q1 | 12,125.05 | \$ 217.16 | \$ | - | 12,342.20 | 4.59% | |
| 2009 Q2 | 1.00% | 6.61% | Feb-07 | 2007 | Q1 | 12,342.20 | \$ 247.73 | \$ | - | 12,589.93 | 4.59% | |
| 2009 Q3 | 0.55% | 5.67% | Mar-07 | 2007 | Q1 | 12,589.93 | \$ 247.73 | \$ | - | 12,837.66 | 4.59% | |
| 2009 Q4 | 0.55% | 4.66% | Apr-07 | 2007 | Q2 | 12,837.66 | \$ 247.73 | \$ | - | 13,085.39 | 4.59% | |
| 2010 Q1 | 0.55% | 4.34% | May-07 | 2007 | Q2 | 13,085.39 | \$ 1,459.59 | \$ | - | 14,544.99 | 4.59% | |
| 2010 Q2 | 0.55% | 4.34% | Jun-07 | 2007 | Q2 | 14,544.99 | \$ 2,149.34 | \$ | - | 16,694.33 | 4.59% | |
| 2010 Q3 | 0.89% | 4.66% | Jul-07 | 2007 | Q3 | 16,694.33 | \$ 3,555.36 | \$ | - | 20,249.70 | 4.59% | |
| 2010 Q4 | 1.20% | 4.01% | Aug-07 | 2007 | Q3 | 20,249.70 | \$ 1,195.33 | \$ | - | 21,445.03 | 4.59% | |
| 2011 Q1 | 1.47% | 4.29% | Sep-07 | 2007 | Q3 | 21,445.03 | \$ 5,883.85 | \$ | - | 27,328.87 | 4.59% | |
| 2011 Q2 | 1.47% | 4.29% | Oct-07 | 2007 | Q4 | 27,328.87 | \$ 509.72 | \$ | - | 27,838.59 | 5.14% | |
| 2011 Q3 | 1.47% | 4.29% | Nov-07 | 2007 | Q4 | 27,838.59 | \$ 1,190.97 | \$ | - | 29,029.56 | 5.14% | |
| 2011 Q4 | 1.47% | 3.92% | Dec-07 | 2007 | Q4 | 29,029.56 | \$ 6,300.92 | \$ | 149.57 | 35,480.05 | 5.14% | |
| 2012 Q1 | 1.47% | 3.92% | Jan-08 | 2008 | Q1 | 35,480.05 | \$ 902.67 | \$ | - | 36,382.71 | 5.14% | |
| 2012 Q2 | 1.47% | 3.51% | Feb-08 | 2008 | Q1 | 36,382.71 | \$ 2,700.22 | \$ | - | 39,082.94 | 5.14% | |
| 2012 Q3 | 1.47% | 3.51% | Mar-08 | 2008 | Q1 | 39,082.94 | \$ 2,108.85 | \$ | - | 41,191.79 | 5.14% | |
| 2012 Q4 | 1.47% | 3.51% | Apr-08 | 2008 | Q2 | 41,191.79 | \$ 888.65 | \$ | - | 42,080.44 | 4.08% | |
| 2013 Q1 | 0.00% | 0.00% | May-08 | 2008 | Q2 | 42,080.44 | \$ 2,595.91 | \$ | - | 44,676.35 | 4.08% | |
| 2013 Q2 | 0.00% | 0.00% | Jun-08 | 2008 | Q2 | 44,676.35 | \$ 1,135.22 | \$ | - | 45,811.57 | 4.08% | |
| 2013 Q3 | 0.00% | 0.00% | Jul-08 | 2008 | Q3 | 45,811.57 | \$ 1,549.93 | \$ | - | 47,361.50 | 3.35% | |
| 2013 Q4 | 0.00% | 0.00% | Aug-08 | 2008 | Q3 | 47,361.50 | \$ 1,352.24 | \$ | - | 48,713.74 | 3.35% | |
| | | | Sep-08 | 2008 | Q3 | 48,713.74 | \$ 681.82 | \$ | - | 49,395.56 | 3.35% | |
| | | | Oct-08 | 2008 | Q4 | 49,395.56 | \$ 2,583.96 | \$ | - | 51,979.52 | 3.35% | |

Smart Meter Model

| Interest (on opening balance) | Cumulative Interest |
|-------------------------------------|------------------------|
| - | - |
| - | - |
| - | - |
| 0.00 | 0.00 |
| 0.00 | 0.01 |
| 4.95 | 4.95 |
| 5.48 | 10.44 |
| 5.48 | 15.92 |
| 5.48 | 21.40 |
| 5.48 | 26.89 |
| 41.47 | 68.36 |
| 45.90 | 114.27 |
| 46.38 | 160.64 |
| 47.21 | 207.85 |
| 48.16 | 256.01 |
| 49.10 | 305.11 |
| 50.05 | 355.17 |
| 55.63 | 410.80 |
| 63.86 | 474.66 |
| 77.46 | 552.11 |
| 82.03 | 634.14 |
| 117.06 | 751.20 |
| 119.24 | 870.44 |
| 124.34 151.97 | 994.78 |
| | 1,146.75 |
| 155.84 | 1,302.59 |
| 167.41 | 1,470.00 |
| 140.05 143.07 | 1,610.05 |
| 143.07 | 1,753.12 1,905.02 |
| 127.89 | 2,032.92 |
| 132.22 | 2,032.92 |
| 135.99 | 2,105.13 |
| 137.90 | 2,301.13 |
| 157.50 | 2,403.02 |

| | | | | _ | | _ | | | |
|--------|------|----|--------------|----|-----------|----|-----------|--------------|--------|
| Nov-08 | 2008 | Q4 | 51,979.52 | \$ | 1,678.11 | \$ | - | 53,657.63 | 3.35% |
| Dec-08 | 2008 | Q4 | 53,657.63 | \$ | 595.24 | \$ | 657.73 | 54,910.60 | 3.35% |
| Jan-09 | 2009 | Q1 | 54,910.60 | \$ | 1,812.85 | \$ | 819.91 | 57,543.36 | 2.45% |
| Feb-09 | 2009 | Q1 | 57,543.36 | \$ | 847.10 | \$ | 819.91 | 59,210.37 | 2.45% |
| Mar-09 | 2009 | Q1 | 59,210.37 | \$ | 1,783.73 | \$ | 819.91 | 61,814.01 | 2.45% |
| Apr-09 | 2009 | Q2 | 61,814.01 | \$ | 417.66 | \$ | 819.91 | 63,051.57 | 1.00% |
| May-09 | 2009 | Q2 | 63,051.57 | \$ | 2,750.35 | \$ | 819.91 | 66,621.83 | 1.00% |
| Jun-09 | 2009 | Q2 | 66,621.83 | \$ | 374.58 | \$ | 819.91 | 67,816.32 | 1.00% |
| Jul-09 | 2009 | Q3 | 67,816.32 | \$ | 367.97 | \$ | 819.91 | 69,004.20 | 0.55% |
| Aug-09 | 2009 | Q3 | 69,004.20 | \$ | 333.05 | \$ | 819.91 | 70,157.16 | 0.55% |
| Sep-09 | 2009 | Q3 | 70,157.16 | \$ | 439.12 | \$ | 819.91 | 71,416.19 | 0.55% |
| Oct-09 | 2009 | Q4 | 71,416.19 | \$ | 3,849.59 | \$ | 819.91 | 76,085.68 | 0.55% |
| Nov-09 | 2009 | Q4 | 76,085.68 | \$ | 897.37 | \$ | 819.91 | 77,802.96 | 0.55% |
| Dec-09 | 2009 | Q4 | 77,802.96 | \$ | 1,603.36 | \$ | 819.91 | 80,226.23 | 0.55% |
| Jan-10 | 2010 | Q1 | 80,226.23 | \$ | 34.08 | \$ | 17,868.63 | 98,128.94 | 0.55% |
| Feb-10 | 2010 | Q1 | 98,128.94 | \$ | 955.56 | \$ | 17,868.63 | 116,953.12 | 0.55% |
| Mar-10 | 2010 | Q1 | 116,953.12 | \$ | 5,413.03 | \$ | 17,868.63 | 140,234.78 | 0.55% |
| Apr-10 | 2010 | Q2 | 140,234.78 | \$ | 37,777.59 | \$ | 17,868.63 | 195,881.00 | 0.55% |
| May-10 | 2010 | Q2 | 195,881.00 | \$ | 2,581.18 | \$ | 17,868.63 | 216,330.81 | 0.55% |
| Jun-10 | 2010 | Q2 | 216,330.81 | \$ | 17,583.77 | \$ | 17,868.63 | 251,783.22 | 0.55% |
| Jul-10 | 2010 | Q3 | 251,783.22 | \$ | 7,352.84 | \$ | 17,868.63 | 277,004.69 | 0.89% |
| Aug-10 | 2010 | Q3 | 277,004.69 | \$ | 3,306.06 | \$ | 17,868.63 | 298,179.38 | 0.89% |
| Sep-10 | 2010 | Q3 | 298,179.38 | \$ | 4,383.99 | \$ | 17,868.63 | 320,432.00 | 0.89% |
| Oct-10 | 2010 | Q4 | 320,432.00 | \$ | 5,245.44 | \$ | 17,868.63 | 343,546.07 | 1.20% |
| Nov-10 | 2010 | Q4 | 343,546.07 | \$ | 5,405.03 | \$ | 17,868.63 | 366,819.73 | 1.20% |
| Dec-10 | 2010 | Q4 | 366,819.73 | \$ | 38,483.81 | \$ | 17,868.63 | 423,172.17 | 1.20% |
| Jan-11 | 2011 | Q1 | 423,172.17 | \$ | 16,067.24 | \$ | 52,085.01 | 491,324.43 | 1.47% |
| Feb-11 | 2011 | Q1 | 491,324.43 | \$ | 8,396.25 | \$ | 52,085.01 | 551,805.68 | 1.47% |
| Mar-11 | 2011 | Q1 | 551,805.68 | \$ | 12,540.82 | \$ | 52,085.01 | 616,431.51 | 1.47% |
| Apr-11 | 2011 | Q2 | 616,431.51 | \$ | 10,861.22 | \$ | 52,085.01 | 679,377.74 | 1.47% |
| May-11 | 2011 | Q2 | 679,377.74 | \$ | 21,875.21 | \$ | 52,085.01 | 753,337.96 | 1.47% |
| Jun-11 | 2011 | Q2 | 753,337.96 | \$ | 16,368.79 | \$ | 52,085.01 | 821,791.75 | 1.47% |
| Jul-11 | 2011 | Q3 | 821,791.75 | \$ | 16,095.67 | \$ | 52,085.01 | 889,972.43 | 1.47% |
| Aug-11 | 2011 | Q3 | 889,972.43 | \$ | 14,776.44 | \$ | 52,085.01 | 956,833.88 | 1.47% |
| Sep-11 | 2011 | Q3 | 956,833.88 | \$ | 12,356.94 | \$ | 52,085.01 | 1,021,275.83 | 1.47% |
| Oct-11 | 2011 | Q4 | 1,021,275.83 | \$ | 17,482.33 | \$ | 52,085.01 | 1,090,843.17 | 1.47% |
| Nov-11 | 2011 | Q4 | 1,090,843.17 | \$ | 26,120.01 | \$ | 52,085.01 | 1,169,048.19 | 1.47% |
| Dec-11 | 2011 | Q4 | 1,169,048.19 | \$ | 46,553.00 | \$ | 52,085.01 | 1,267,686.20 | 1.47% |
| Jan-12 | 2012 | Q1 | 1,267,686.20 | \$ | 30,189.07 | \$ | 75,904.75 | 1,373,780.01 | 1.47% |
| Feb-12 | 2012 | Q1 | 1,373,780.01 | \$ | 29,465.64 | \$ | 75,904.75 | 1,479,150.39 | 1.47% |
| Mar-12 | 2012 | Q1 | 1,479,150.39 | \$ | 27,519.72 | \$ | 75,904.75 | 1,582,574.86 | 1.47% |
| Apr-12 | 2012 | Q2 | 1,582,574.86 | \$ | 24,495.87 | \$ | 75,904.75 | 1,682,975.48 | 1.47% |
| May-12 | 2012 | Q2 | 1,682,975.48 | \$ | 18,968.75 | \$ | 75,904.75 | 1,777,848.98 | 1.47% |
| Jun-12 | 2012 | Q2 | 1,777,848.98 | \$ | 10,679.55 | \$ | 75,904.75 | 1,864,433.28 | 1.47% |
| Jul-12 | 2012 | Q3 | 1,864,433.28 | \$ | 10,679.55 | \$ | 75,904.75 | 1,951,017.57 | 1.47% |
| Aug-12 | 2012 | Q3 | 1,951,017.57 | \$ | 10,679.55 | \$ | 75,904.75 | 2,037,601.87 | 1.47% |
| Sep-12 | 2012 | Q3 | 2,037,601.87 | \$ | 10,679.55 | \$ | 75,904.75 | 2,124,186.17 | 1.47% |
| Oct-12 | 2012 | Q4 | 2,124,186.17 | \$ | _ | \$ | 75,904.75 | 2,200,090.91 | 1.47% |
| Nov-12 | 2012 | Q4 | 2,200,090.91 | \$ | _ | \$ | 75,904.75 | 2,275,995.66 | 0.00% |
| Dec-12 | 2012 | Q4 | 2,275,995.66 | \$ | - | \$ | 75,904.75 | 2,351,900.40 | 0.00% |
| Jan-13 | 2013 | Q1 | 2,351,900.40 | \$ | _ | \$ | 81,825.22 | 2,433,725.62 | 0.00% |
| Feb-13 | 2013 | Q1 | 2,433,725.62 | \$ | - | \$ | 81,825.22 | 2,515,550.84 | 0.00% |
| Mar-13 | 2013 | Q1 | 2,515,550.84 | \$ | _ | \$ | 81,825.22 | 2,597,376.05 | 0.00% |
| Apr-13 | 2013 | Q2 | 2,597,376.05 | \$ | - | \$ | 81,825.22 | 2,679,201.27 | 0.00% |
| May-13 | 2013 | Q2 | 2,679,201.27 | \$ | _ | \$ | 81,825.22 | 2,761,026.48 | 0.00% |
| Jun-13 | 2013 | Q2 | 2,761,026.48 | \$ | _ | \$ | 81,825.22 | 2,842,851.70 | 0.00% |
| Jul-13 | 2013 | Q3 | 2,842,851.70 | \$ | | \$ | 81,825.22 | 2,924,676.92 | 0.00% |
| Aug-13 | 2013 | Q3 | 2,924,676.92 | \$ | | \$ | 81,825.22 | 3,006,502.13 | 0.00% |
| Sep-13 | 2013 | Q3 | 3,006,502.13 | \$ | | \$ | 81,825.22 | 3,088,327.35 | 0.00% |
| Oct-13 | 2013 | Q4 | 3,088,327.35 | \$ | | \$ | 81,825.22 | 3,170,152.56 | 0.00% |
| | 2010 | 37 | 0,000,021.00 | Ψ | | Ψ | 01,020.22 | 3,110,102.00 | 0.0070 |

| 145.11 149.79 | 2,584.13 2,733.92 |
|----------------------|------------------------|
| 112.11 117.48 | 2,846.03 2,963.52 |
| 120.89 | 2,903.52 3,084.41 |
| 51.51 | 3,135.92 |
| 52.54 55.52 | 3,188.46 3,243.98 |
| 31.08 | 3,275.06 |
| 31.63 32.16 | 3,306.69 3,338.84 |
| 32.73 | 3,371.58 |
| 34.87 | 3,406.45 |
| 35.66 36.77 | 3,442.11 3,478.88 |
| 44.98 | 3,523.85 |
| 53.60 64.27 | 3,577.46 3,641.73 |
| 89.78 | 3,731.51 |
| 99.15 | 3,830.66 |
| 186.74 205.45 | 4,017.40 4,222.85 |
| 221.15 | 4,444.00 |
| 320.43 343.55 | 4,764.43 5,107.97 |
| 366.82 | 5,474.79 |
| 518.39 | 5,993.18 |
| 601.87 675.96 | 6,595.05 7,271.01 |
| 755.13 | 8,026.14 |
| 832.24 922.84 | 8,858.38 9,781.22 |
| 1,006.69 | 10,787.92 |
| 1,090.22 | 11,878.13 |
| 1,172.12 1,251.06 | 13,050.25 14,301.32 |
| 1,336.28 | 15,637.60 |
| 1,432.08 1,552.92 | 17,069.68 18,622.60 |
| 1,682.88 | 20,305.48 |
| 1,811.96 1,938.65 | 22,117.44 24,056.09 |
| 2,061.64 | 26,117.74 |
| 2,177.86 | 28,295.60 |
| 2,283.93 2,390.00 | 30,579.53 32,969.53 |
| 2,496.06 | 35,465.59 |
| 2,602.13 | 38,067.72 38,067.72 |
| - | 38,067.72 |
| - | 38,067.72 |
| - | 38,067.72 38,067.72 |
| - | 38,067.72 |
| - | 38,067.72 38,067.72 |
| - | 38,067.72 |
| - | 38,067.72 38,067.72 |
| - | 38,067.72 |
| | |

| Nov-13 Dec-13 | 2013 2013 | Q4 Q4 | 3,170,152.56 3,251,977.78 | - | \$ \$ | 81,825.22 81,825.22 | 3,251,977.78 3,333,803.00 | 0.00% FALSE |
|------------------|--------------|----------|------------------------------|------------------|----------|------------------------|------------------------------|----------------|
| | | | | \$ 590,937.35 | \$ | 1,760,963.05 | \$ 2,351,900.40 | |

38,067.72 38,067.72

-

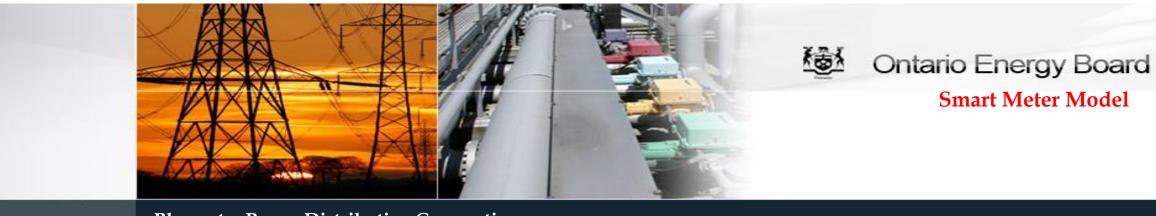
-



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

| Year | Year OM&A (from Sheet 5) | | Expe | rtization nse 1 Sheet 5) | and | ulative OM&A Amortization ense | and | rage nulative OM&A Amortization ense | Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B) | Simple Interest on OM&A and Amortization Expenses | | |
|-----------|-----------------------------|------------|------|--------------------------------|-----|--------------------------------------|-----|---|---|--|-----------|--|
| 2006 | \$ | 12,108.83 | \$ | 11.80 | \$ | 12,120.63 | \$ | 6,060.31 | 4.37% | \$ | 264.53 | |
| 2007 | \$ | 23,205.44 | \$ | 113.88 | \$ | 35,439.94 | \$ | 23,780.28 | 4.73% | \$ | 1,124.21 | |
| 2008 | \$ | 18,772.82 | \$ | 500.71 | \$ | 54,713.47 | \$ | 45,076.70 | 3.98% | \$ | 1,794.05 | |
| 2009 | \$ | 15,476.71 | \$ | 7,491.87 | \$ | 77,682.06 | \$ | 66,197.76 | 1.14% | \$ | 753.00 | |
| 2010 | \$ | 128,522.13 | \$ | 163,257.43 | \$ | 369,461.62 | \$ | 223,571.84 | 0.80% | \$ | 1,782.99 | |
| 2011 | \$ | 219,493.50 | \$ | 475,873.06 | \$ | 1,064,828.18 | \$ | 717,144.90 | 1.47% | \$ | 10,542.03 | |
| 2012 | \$ | 173,359.08 | \$ | 693,508.72 | \$ | 1,931,695.97 | \$ | 1,498,262.08 | 1.23% | \$ | 18,353.71 | |
| 2013 | \$ | - | \$ | 747,599.69 | \$ | 2,679,295.67 | \$ | 2,305,495.82 | 0.00% | \$ | - | |
| Cumulativ | ve Interest | to 2011 | | | | | | | | \$ | 16,260.81 | |
| Cumulativ | ve Interest | to 2012 | | | | | | | | \$ | 34,614.52 | |
| Cumulativ | ve Interest | to 2013 | | | | | | | | \$ | 34,614.52 | |
| | | | | | | | | | | | | |

Appendix 3 Response to VECC 7a Residential Model



Bluewater Power Distribution Corporation

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

SMIRR

Check: Forecasted SMIRR Revenues

| | Smart Meter Funding Adder (SMFA) | |
|---|--|---|
| X | Smart Meter Disposition Rider (SMDR) | The SMDR is calculated based on costs to December 31, 2011 |
| X | Smart Meter Incremental Revenue Requirement Rate Rider (SMIRR) | The SMIRR is calculated based on the incremental revenue requ |

remental 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) | \$ | 12,317.07 | \$ | 23,716.93 | \$ | 19,686.13 | \$ | 24,625.62 | \$ 346,340.72 | \$ 869,878.90 | \$ 1,141,983.80 | \$ 1,061,672.46 | \$ 2,438,549.17 |
| Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below) | \$ | 114.27 | \$ | 880.52 | \$ | 1,739.14 | \$ | 708.18 | \$ 2,032.69 | \$ 11,594.89 | \$ 20,998.04 | | \$ 38,067.72 |
| X Sheet 8A (Interest calculated on monthly balances) | \$ | 114.27 | \$ | 880.52 | \$ | 1,739.14 | \$ | 708.18 | \$ 2,032.69 | \$ 11,594.89 | \$ 20,998.04 | \$ - | \$ 38,067.72 |
| Sheet 8B (Interest calculated on average annual balances) | | | | | | | | | | | | | |
| SMFA Revenues (from Sheet 8) | \$ | 61,076.54 | \$ | 103,889.74 | \$ | 103,883.95 | \$ | 102,732.51 | \$ 245,685.10 | \$ 582,498.46 | \$ 367,746.24 | \$ - | \$ 1,567,512.53 |
| SMFA Interest (from Sheet 8) | \$ | 381.01 | \$ | 5,234.41 | \$ | 8,283.52 | \$ | 3,416.64 | \$ 3,774.91 | \$ 12,410.91 | \$ 17,676.91 | \$ - | \$ 51,178.31 |
| Net Deferred Revenue Requirement | -\$ | 49,026.22 | -\$ | 84,526.70 | -\$ | 90,742.20 | -\$ | 80,815.34 | \$ 98,913.40 | \$ 286,564.42 | \$ 777,558.69 | \$ 1,061,672.46 | \$ 857,926.05 |
| Number of Metered Customers (average for 2013 test year) | | | | | | | | | | | | 32122 | |

- 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)

2.75

\$ 1,060,026.00

\$

Match

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

| Years for collection | on or refunding | | 0.5 |
|----------------------|--|--------|-------------------|
| | ntal Revenue Requirement from 2006 to December 31, 2012 st on OM&A and Amortization | \$ | 2,476,616.89 |
| SMFA Revenues | collected from 2006 to 2013 test year (inclusive) le Interest on SMFA Revenues | \$ | 1,618,690.84 |
| • | enue Requirement | \$ | 857,926.05 |
| SMDR | November 1, 2012 to | \$ | 4.45 Match |
| Check: Forecast | ed SMDR Revenues | \$ | 857,657.40 |
| Calculation of Smar | t Meter Incremental Revenue Requirement Rate Rider (per meter | ed cus | stomer per month) |
| Incremental Reve | nue Requirement for 2013 | \$ | 1,061,672.46 |

Appendix 3 Response to VECC 7a Residential Model

| | 2006 | 2007 | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | Tota | al to 2011 | Total t | to 2012 |
|--|--------------|--------------|--------------|-----|--------|-----|---------|-----|---------|-----|-----------|------|------------|---------|---------|
| Deemed Short Term Debt | \$ - | \$ - | \$ - | \$ | 19 | \$ | 886 | \$ | 2,118 | \$ | 2,464 | \$ | 3,022 | \$ | 5,487 |
| Deemed Long Term Debt | \$ 68 | \$ 144 | \$ 191 | \$ | 1,403 | \$ | 71,030 | \$ | 169,911 | \$ | 197,676 | \$ | 242,748 | \$4 | 40,424 |
| Equity | \$ 84 | \$ 179 | \$ 208 | \$ | 1,212 | \$ | 53,333 | \$ | 127,577 | \$ | 148,424 | \$ | 182,592 | \$3 | 31,016 |
| Return on Capital | \$ 152 | \$ 323 | \$ 399 | \$ | 2,634 | \$ | 125,249 | \$ | 299,606 | \$ | 348,564 | \$ | 428,363 | \$7 | 76,926 |
| Operating Expense | \$ 12,109 | \$ 23,205 | \$ 18,773 | \$ | 15,477 | \$ | 128,522 | \$ | 219,494 | \$ | 173,359 | \$ | 417,579 | \$5 | 90,939 |
| Amortization | \$ 12 | \$ 114 | \$ 501 | \$ | 7,492 | \$ | 163,257 | \$ | 475,873 | \$ | 693,509 | \$ | 647,249 | \$ 1,3 | 40,757 |
| Total Before PILs | \$ 12,273 | \$ 23,643 | \$ 19,672 | \$ | 25,602 | \$ | 417,028 | \$ | 994,972 | \$ | 1,215,431 | \$ | 1,493,191 | \$ 2,7 | 08,622 |
| PILS | \$ 45 | \$ 74 | \$ 14 | -\$ | 977 | -\$ | 70,688 | -\$ | 125,094 | -\$ | 73,448 | -\$ | 196,626 | -\$2 | 70,073 |
| Revenue Requirement | \$ 12,317 | \$ 23,717 | \$ 19,686 | \$ | 24,626 | \$ | 346,341 | \$ | 869,879 | \$ | 1,141,984 | \$ | 1,296,565 | \$ 2,4 | 38,549 |
| Interest on Deferred OM&A and Amortization | \$ 114 | \$ 881 | \$ 1,739 | \$ | 708 | \$ | 2,033 | \$ | 11,595 | \$ | 20,998 | \$ | 17,070 | \$ | 38,068 |
| Total Revenue Requirement | \$ 12,431 | \$ 24,597 | \$ 21,425 | \$ | 25,334 | \$ | 348,373 | \$ | 881,474 | \$ | 1,162,982 | \$ | 1,313,635 | \$ 2,4 | 76,617 |

Appendix 4

V 2.21



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Ontario Energy Board Smart Meter Model (for 2013 Rates Applications)

Choose Your Utility: Bluewater Power Distribution Corporation Brant County Power Inc.

Application Contact Information

| Name: | Leslie Dugas |
|--------------------------------------|-------------------------------|
| Title: | Manager of Regulatory Affairs |
| Phone Number: | 519-337-8201 Ext 2255 |
| Email Address: | Idugas@bluewaterpower.com |
| We are applying for rates effective: | November 1, 2012 |
| Last COS Re-based Year | 2009 |

Copyright

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results. The use of any models and spreadsheets does not automatically imply Board approval. The onus is on the distributor to prepare, document and support its application. Board-issued Excel models and spreadsheets are offered to assist parties in providing the necessary information so as to facilitate an expeditious review of an application. The onus remains on the applicant to ensure the accuracy of the data and the results.

1. Utility_Info



Bluewater Power Distribution Corporation

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.

| | | 2006 | 2007 |
|--|--|----------------|------------|
| Smart Meter Capital Cost and Operational Expense Data | | Audited Actual | Audited Ac |
| 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) | | 0 | |
| Percentage of Residential and GS < 50 kW Smart Meter Installations Completed | | 0.00% | (|
| Actual/Planned number of GS > 50 kW meters installed | | | |
| Other (please identify) | | | |
| Total Number of Smart Meters installed or planned to be installed | | 0 | |
| 1 Capital Costs | | | |
| 1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD) | Asset Type Asset type must be selected to enable calculations | Audited Actual | Audited Ac |
| 1.1.1 Smart Meters (may include new meters and modules, etc.) | Smart Meter | | |
| 1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.) | Smart Meter | | |
| 1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.) | Tools & Equipment | | |
| 1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.) | | | |
| Total Advanced Metering Communications Devices (AMCD) | | \$ | \$ |
| 1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN) | Asset Type | Audited Actual | Audited Ac |
| 1.2.1 Collectors | Smart Meter | | |
| 1.2.2 Repeaters (may include radio licence, etc.) | Computer Hardware | | |
| 1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.) | Computer Hardware | | |
| Total Advanced Metering Regional Collector (AMRC) (Includes LAN) | | \$ - | \$ |

2010 2011 2012 2013 2008 2009 Total ctual Audited Actual Audited Actual Audited Actual Audited Actual Forecast Forecast 0 3504 1,488 2,012 4 1488 2012 3500 - 4 0 0.00% 0.00% 42.51% 100.00% 0.00% 100.11% 100.00% 0.00% 0 0 1488 2012 3504 0 Audited Actual Audited Actual Audited Actual Audited Actual Forecast Forecast ctual 1,037,228 102,789 187 1,140,204 \$ 137,017 241,773 87,757 16,999 1,863 1,863 \$ -<u>- \$ - \$ 1,176,108 \$ 190,547 \$ 17,186 \$ - \$ 1,383,840</u> ctual Audited Actual Audited Actual Audited Actual Audited Actual Forecast Forecast 81,875 \$ 81,875 2,175 \$ 2,175 953 3,298 71,349 1,079 \$ 76,679 - <u>\$ 953</u> <u>\$ 3,298</u> <u>\$ 155,399</u> <u>\$ 1,079</u> <u>\$ -</u> <u>\$ -</u> <u>\$ 160,729</u>

| | Asset Type | | |
|--|-------------------|----------------|-----------|
| 1.3 ADVANCED METERING CONTROL COMPUTER (AMCC) | | Audited Actual | Audited A |
| 1.3.1 Computer Hardware | Computer Hardware | | |
| 1.3.2 Computer Software | Computer Software | | |
| 1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.) | | | |
| Total Advanced Metering Control Computer (AMCC) | | \$- | \$ |
| | | | |
| | Asset Type | | |
| 1.4 WIDE AREA NETWORK (WAN) | | Audited Actual | Audited A |
| 1.4.1 Activiation Fees | | | |
| Total Wide Area Network (WAN) | | \$- | \$ |
| | Asset Type | | |
| | | Audited Actual | Audited A |
| 1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY | | Audited Actual | Audited A |
| 1.5.1 Customer Equipment (including repair of damaged equipment) | Other Equipment | | |
| 1.5.2 AMI Interface to CIS | Computer Software | | |
| 1.5.3 Professional Fees | Computer Hardware | | |
| 1.5.4 Integration | Computer Software | | |
| 1.5.5 Program Management | Computer Software | 54 | |
| 1.5.6 Other AMI Capital | Computer Software | | |
| Total Other AMI Capital Costs Related to Minimum Functionality | | \$ 54 | \$ |
| Total Capital Costs Related to Minimum Functionality | | \$ 54 | \$ |
| | Asset Type | | |
| 1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY (Please provide a descriptive title and identify nature of beyond minimum functionality costs) | | Audited Actual | Audited A |
| 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 | | |
| Total Capital Costs Beyond Minimum Functionality | | \$- | \$ |
| Total Smart Meter Capital Costs | | \$ 54 | \$ |

| d Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | | |
|----------|----------------|----------------|----------------|----------------|------------|-----------|----|-----------|
| | | | 1,927 | | | | \$ | 1,927 |
| | | 9,313 | 55,590 | | | | \$ | 64,902 |
| | | | | | | | \$ | - |
| - | \$ - | \$ 9,313 | \$ 57,517 | \$ - | \$- | \$ - | \$ | 66,830 |
| | | | | | | | | |
| d Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | | |
| | | | | | | | \$ | - |
| - | \$- | \$- | \$- | \$- | \$- | \$- | \$ | _ |
| | | | | | | | | |
| d Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | | |
| | | | 12,514 | 2,606 | | | \$ | 15,120 |
| | | | | | | | \$ | - |
| | 264 | 12,289 | 8,419 | 2,089 | | | \$ | 23,061 |
| | | | | | | | \$ | - |
| 413 | 141 | 686 | 17,803 | 16,318 | 21,204 | | \$ | 56,619 |
| | | 5,057 | 89,839 | 54,134 | 45,511 | | \$ | 194,541 |
| 413 | \$ 404 | \$ 18,032 | \$ 128,575 | \$ 75,147 | \$ 66,715 | \$- | \$ | 289,341 |
| 413 | \$ 1,357 | \$ 30,643 | \$ 1,517,599 | \$ 266,773 | \$ 83,901 | \$- | \$ | 1,900,740 |
| | | | | | | | | |
| d Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | | |
| | | | | | | | ¢ | |
| | | | | | | | \$ | - |
| | | | | | | | \$ | - |
| | | | | | | | | |
| | | | 9,339 | 610,148 | 175,144 | | \$ | 794,631 |
| | <u>\$</u> | \$ | \$ 9,339 | \$ 610,148 | \$ 175,144 | <u>\$</u> | \$ | 794,631 |
| 413 | \$ 1,357 | \$ 30,643 | \$ 1,526,938 | \$ 876,921 | \$ 259,045 | \$ - | \$ | 2,695,372 |

2 OM&A Expenses

| 2.1 ADVANCED METERING CO | OMMUNICATION DEVICE (AMCD) | | Audited Actual | Audi | ted Act |
|---|---|--------|----------------|------|---------|
| 2.1.1 Maintenance (may include m | eter reverification costs, etc.) | | | | |
| 2.1.2 Other (please specifiy) | ODS Fees | | 192 | | |
| Total Incremental AMCD OM& | A Costs | | \$ 192 | \$ | |
| 2.2 ADVANCED METERING RI | EGIONAL COLLECTOR (AMRC) (includes LAN) | | | | |
| 2.2.1 Maintenance | | | | | |
| 2.2.2 Other (please specifiy) | Network Fees | | | | |
| Total Incremental AMRC OM& | A Costs | | \$- | \$ | |
| 2.3 ADVANCED METERING CO | ONTROL COMPUTER (AMCC) | | | | |
| 2.3.1 Hardware Maintenance (m | ay include server support, etc.) | | | | |
| 2.3.2 Software Maintenance (may | v include maintenance support, etc.) | | | | |
| 2.3.2 Other (please specifiy) | | | | | |
| Total Incremental AMCC OM& | A Costs | | \$- | \$ | |
| 2.4 WIDE AREA NETWORK (V | VAN) | | | | |
| 2.4.1 WAN Maintenance | | | | | |
| 2.4.2 Other (please specifiy) | | | | | |
| Total Incremental AMRC OM& | A Costs | | \$ - | \$ | |
| 2.5 OTHER AMI OM&A COSTS | S RELATED TO MINIMUM FUNCTIONALITY | | | | |
| 2.5.1 Business Process Redesig | gn | | | | |
| 2.5.2 Customer Communication | (may include project communication, etc.) | | 3 | | |
| 2.5.3 Program Management | | | 213 | | · |
| 2.5.4 Change Management (ma | y include training, etc.) | | | | |
| 2.5.5 Administration Costs | | | 923 | | |
| 2.5.6 Other AMI Expenses (please specify) | | | | | |
| | Related to Minimum Functionality | | \$ 1,139 | \$ | 1 |
| TOTAL OM&A COSTS RELAT | ED TO MINIMUM FUNCTIONALITY | | \$ 1,330 | \$ | 2 |
| | | | Audited Actual | Audi | ted Act |
| 2.6.1 Costs related to technical | lentify nature of beyond minimum functionality costs) capabilities in the smart meters or related communications infrastru | ucture | | | |
| that exceed those specified in O. | Reg 425/06 | | | | |
| 2.6.2 Costs for deployment of s and small general service | mart meters to customers other than residential | | | | |
| - | nentation, CIS system upgrades, web presentation, | | | | |
| integration with the MDM/R, etc. | | | | | |
| Total OM&A Costs Beyond Min | nimum Functionality | | \$ - | \$ | |
| Total Smart Meter OM&A Cost | S | | \$ 1,330 | \$ | 2 |

| I Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | Forecast | Forecast | | |
|----------|----------------|----------------|----------------|----------------|-----------|----------|----------|--------|
| | | | | | | | \$ | - |
| 605 | 445 | 468 | 1,642 | 4,005 | 2,187 | | \$ | 9,544 |
| 605 | \$ 445 | \$ 468 | \$ 1,642 | \$ 4,005 | \$ 2,187 | \$- | \$ | 9,544 |
| | | | | | | | | |
| | | | | | | | \$ | - |
| | | | 2,934 | 4,864 | 2,135 | | \$ | 9,933 |
| - | \$- | \$ - | \$ 2,934 | \$ 4,864 | \$ 2,135 | \$- | \$ | 9,933 |
| | | | | | | | | |
| | | | | | | | \$ | - |
| | | | 2,590 | 894 | 135 | | \$ | 3,618 |
| | | | | | | | \$ | - |
| - | \$- | \$ - | \$ 2,590 | \$ 894 | \$ 135 | \$- | \$ | 3,618 |
| | | | | | | | | |
| | | | | | | | \$ | - |
| | | | | | | | \$ | - |
| _ | \$ - | \$ - | \$- | \$ | \$ - | \$ - | \$ | - |
| | | | | | | | | |
| | | | 291 | 1,072 | | | \$ | 1,363 |
| | | | 5,526 | 1,460 | | | \$ | 6,989 |
| 1,465 | 1,616 | 652 | -157 | | | | \$ | 3,788 |
| | | 579 | 1,210 | 1,444 | 1,901 | | \$ | 5,135 |
| 480 | 2 | 2 | 87 | 10,378 | 10,600 | | \$ | 22,472 |
| | | | | | | | \$ | - |
| 1,945 | \$ 1,617 | \$ 1,233 | \$ 6,957 | \$ 14,355 | \$ 12,502 | \$- | \$ | 39,746 |
| 2,550 | \$ 2,063 | \$ 1,701 | \$ 14,122 | \$ 24,117 | \$ 16,957 | \$- | \$ | 62,840 |
| Actual | Audited Actual | Audited Actual | Audited Actual | Audited Actual | | | | |
| | | | | | | | <u>^</u> | |
| | | | | | | | \$ | - |
| | | | | | | | \$ | - |
| | | | | | | | | |
| | | | | | 2,091 | | \$ | 2,091 |
| - | \$ - | \$ - | \$- | \$ | \$ 2,091 | \$ - | \$ | 2,091 |
| 2,550 | \$ 2,063 | \$ 1,701 | \$ 14,122 | \$ 24,117 | \$ 19,048 | \$- | \$ | 64,931 |

3 Aggregate Smart Meter Costs by Category

| 3.1 | Capital | | | | | | | | | | |
|-------|-----------------------|-------------|-------------|-------------|--------------|-----------------|---------------|---------------|---------|----|-----------------|
| 3.1.1 | Smart Meter | \$ - | \$ - | \$ - | \$ - | \$ 1,256,120 | \$ 190,547 | \$ 17,186 | \$ - | \$ | \$ 1,463,852 |
| 3.1.2 | Computer Hardware | \$ - | \$ - | \$ 1,217 | \$ 15,587 | \$ 83,871 | \$ 3,168 | \$ - | \$ - | \$ | \$ 103,843 |
| 3.1.3 | Computer Software | \$ 54 | \$ 413 | \$ 141 | \$ 15,056 | \$ 172,570 | \$ 680,600 | \$ 241,860 | \$ - | \$ | \$ 1,110,693 |
| 3.1.4 | Tools & Equipment | \$ - | \$ - | \$ - | \$ - | \$ 1,863 | \$ - | \$ - | \$ - | \$ | \$ 1,863 |
| 3.1.5 | Other Equipment | \$ - | \$ - | \$ - | \$ - | \$ 12,514 | \$ 2,606 | \$ - | \$ - | \$ | \$ 15,120 |
| 3.1.6 | Applications Software | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ | \$ - |
| 3.1.7 | Total Capital Costs | \$ 54 | \$ 413 | \$ 1,357 | \$ 30,643 | \$ 1,526,938 | \$ 876,921 | \$ 259,045 | \$ - | 4 | \$ 2,695,372 |
| 3.2 | OM&A Costs | | | | | | | | | | |
| 3.2.1 | Total OM&A Costs | \$ 1,330 | \$ 2,550 | \$ 2,063 | \$ 1,701 | \$ 14,122 | \$ 24,117 | \$ 19,048 | \$ - | | \$ 64,931 |



Ontario Energy Board Smart Meter Model

Bluewater Power Distribution Corporation

| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| Cost of Capital | | | | | | | | |
| Capital Structure ¹ | | | _ | _ | _ | _ | _ | _ |
| Deemed Short-term Debt Capitalization | | | | 4.0% | 4.0% | 4.0% | 4.0% | 4.0% |
| Deemed Long-term Debt Capitalization | 50.0% | 50.0% | 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 | | | 0.00% | 1.33% | 1.33% | 1.33% | 1.33% | 1.33% |
| Long-term Debt Rate (actual/embedded/deemed) ² | 7.25% | 7.25% | 7.25% | 7.62% | 7.62% | 7.62% | 7.62% | 7.62% |
| 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 | 8.13% | 8.13% | 8.07% | 7.54% | 7.52% | 7.52% | 7.52% | 7.52% |
| Working Capital Allowance | | | | | | | | |
| Working Capital Allowance Rate | 15.0% | 15.0% | 15.0% | 12.0% | 12.0% | 12.0% | 12.0% | 12.0% |
| (% of the sum of Cost of Power + controllable expenses) | | | | | | | | |
| Taxes/PILs | | | | | | | | |
| Aggregate Corporate Income Tax Rate | 36.12% | 36.12% | 33.50% | 33.00% | 31.00% | 28.25% | 26.25% | 25.50% |
| 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 | 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% |
| Tools & Equipment - years | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| - rate (%) | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% |
| Other Equipment - years | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| - rate (%) | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% |
| CCA Rates Smart Meters - CCA Class Smart Meters - CCA Rate | 8 20% |
| Computer Equipment - CCA Class | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| Computer Equipment - CCA Rate | 30% | 30% | 30% | 30% | 30% | 30% | 30% | 30% |
| General Equipment - CCA Class General Equipment - CCA Rate | 8 20% | 8 20% | 8 20% | 8 20% | 820% | 8 20% | 8 20% | 8 20% |
| Applications Software - CCA Class | | | | | | | | |
| Applications Software - CCA Rate | | | | | | | | |
| Accumptions | | | | | | | | |

Assumptions

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



| Bluewater Power Distribution | Corporation | I | . • | | | | | | | | | | | | |
|--|----------------|--------|-----------------------------|------------------|-------------------|-------------------|---------------------------|-------------------|-----------------------------|-------------------|-------------------------------------|-------------------|-------------------------------------|-------------------|-------------------------------------|
| Net Fixed Assets - Smart Meters | 200 | 06 | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | | 2013 |
| Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance | \$ \$ \$ | - | \$ - \$ - <u>\$</u> - | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | 1,256,120 1,256,120 | \$ \$ | 1,256,120 190,547 1,446,666 | \$ \$ \$ | 1,446,666 17,186 1,463,852 | \$ \$ | 1,463,852 - 1,463,852 |
| Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance | \$ \$ | - | \$ - \$ - \$ - | \$ \$ \$ | - | \$ \$ \$ | - | \$ -\$ -\$ | 41,871 | -\$ -\$ -\$ | 41,871 90,093 131,964 | -\$ -\$ -\$ | 131,964 97,017 228,981 | -\$ -\$ _\$ | 228,981 97,590 326,571 |
| Net Book Value Opening Balance Closing Balance Average Net Book Value | \$ \$ \$ | - - | \$ - \$ - | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | 1,214,249 607,124 | \$ \$ \$ | 1,214,249 1,314,703 1,264,476 | \$ \$ \$ | 1,314,703 1,234,871 1,274,787 | \$ \$ \$ | 1,234,871 1,137,281 1,186,076 |
| Net Fixed Assets - Computer Hardware Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance | \$ • • | - - | \$ - \$ - <u>\$</u> | \$ \$ \$ | 1,217 | \$ \$ \$ | 1,217 15,587 16,804 | \$ \$ \$ | 16,804 83,871 100,675 | \$ \$ \$ | 100,675 3,168 103,843 | \$ \$ \$ | 103,843 - 103,843 | \$ \$ \$ | 103,843 - <u>103,843</u> |
| Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance | \$ \$ \$ | - | \$ - \$ - \$ - | \$ -\$ -\$ | - 122 122 | -\$ -\$ -\$ | 122 1,802 1,924 | -\$ -\$ -\$ | 1,924 11,748 13,672 | -\$ -\$ -\$ | 13,672 20,452 34,123 | -\$ -\$ -\$ | 34,123 20,769 54,892 | -\$ -\$ -\$ | 54,892 20,769 75,661 |
| Net Book Value Opening Balance Closing Balance Average Net Book Value | \$ \$ \$ | - | \$ - \$ - | \$ \$ \$ | - 1,095 548 | \$ \$ \$ | 1,095 14,880 7,988 | \$ \$ \$ | 14,880 87,003 50,942 | \$ \$ \$ | 87,003 69,720 78,362 | \$ \$ \$ | 69,720 48,951 59,335 | \$ \$ \$ | 48,951 28,182 38,567 |

Ontario Energy Board Smart Meter Model

Net Fixed Assets - Computer Software (including Applications Software)

| 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 | \$ \$ -\$ -\$ | 54 54 - 5 5 | \$ \$ -\$ -\$ | 54 413 467 5 52 58 | \$ \$ \$ -\$ -\$ | 467 141 608 58 108 165 | \$ \$ -\$ -\$ | 608 15,056 15,664 165 1,627 1,792 | \$ \$ -\$ -\$ | 15,664 172,570 188,234 1,792 20,390 22,182 | \$ \$ -\$ -\$ | 188,234 680,600 868,834 22,182 105,707 127,889 | \$ \$ -\$ -\$ | 868,834 241,860 1,110,693 127,889 197,953 325,841 | \$ \$ -\$ -\$ -\$ | 1,110,693 - 1,110,693 325,841 222,139 547,980 |
|--|------------------------|-------------------------|------------------------|-----------------------------------|------------------------------|---------------------------------------|------------------------|--|------------------------|---|------------------------|---|------------------------|--|-------------------------------|--|
| Net Book Value Opening Balance Closing Balance Average Net Book Value Net Fixed Assets - Tools and Equipment | \$ \$ \$ | 49 24 | \$ \$ \$ | 49 410 229 | \$ \$ \$ | 410 443 426 | \$ \$ \$ | 443 13,871 7,157 | \$ \$ \$ | 13,871 166,052 89,962 | \$ \$ \$ | 166,052 740,945 453,498 | \$ \$ \$ | 740,945 784,852 762,898 | \$ \$ \$ | 784,852 562,713 673,783 |
| Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance | \$ \$ \$ | - | \$ \$ \$ | - - - | \$ \$ \$ | - | \$ \$ | - - - | \$ \$ \$ | 1,863 1,863 | \$ \$ \$ | 1,863 - 1,863 | \$ \$ \$ | 1,863 - 1,863 | \$ \$ \$ | 1,863 - 1,863 |
| Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | | \$ \$ \$ | | \$ -\$ -\$ | 93 93 | -\$ -\$ -\$ | 93 186 279 | -\$ -\$ -\$ | 279 186 466 | -\$ -\$ -\$ | 466 186 652 |
| Net Book Value Opening Balance Closing Balance Average Net Book Value Net Fixed Assets - Other Equipment | \$ \$ | - | \$ \$ | - | \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | - 1,770 885 | \$ \$ \$ | 1,770 1,584 1,677 | \$ \$ \$ | 1,584 1,397 1,491 | \$ \$ \$ | 1,397 1,211 1,304 |
| Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance | \$ \$ \$ | - | \$ \$ \$ | - - - | \$ \$ \$ | - - - | \$ \$ \$ | - - - | \$ \$ \$ | 12,514 12,514 | \$ \$ \$ | 12,514 2,606 15,120 | \$ \$ \$ | 15,120 - 15,120 | \$ \$ \$ | 15,120 - 15,120 |
| Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | - | \$ -\$ -\$ | - 626 626 | -\$ -\$ -\$ | 626 1,382 2,007 | -\$ -\$ -\$ | 2,007 1,512 3,519 | -\$ -\$ -\$ | 3,519 1,512 5,031 |
| Net Book Value Opening Balance Closing Balance Average Net Book Value | \$ \$ \$ | - | \$ \$ | - | \$ \$ | - | \$ \$ \$ | - | \$ \$ \$ | - 11,888 5,944 | \$ \$ | 11,888 13,113 12,500 | \$ \$ \$ | 13,113 11,601 12,357 | \$ \$ \$ | 11,601 10,089 10,845 |

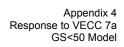


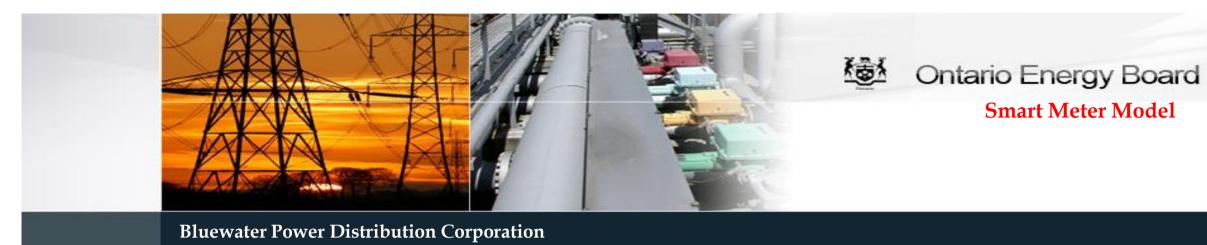
Ontario Energy Board Smart Meter Model

Bluewater Power Distribution Corporation

| Average Net Fixed Accet Values (from Sheet 4) | | 2006 | | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | | 2013 |
|---|----|-------|----|-------|-----|-------|-----|--------|-----|-----------|-----|-----------|-----|--------------|----|-----------|
| Average Net Fixed Asset Values (from Sheet 4) Smart Meters | \$ | - | \$ | _ | \$ | _ | \$ | _ | \$ | 607,124 | \$ | 1,264,476 | \$ | 1,274,787 | \$ | 1,186,076 |
| Computer Hardware | \$ | - | \$ | - | \$ | 548 | \$ | 7,988 | \$ | 50,942 | \$ | 78,362 | \$ | 59,335 | \$ | 38,567 |
| Computer Software | \$ | 24 | \$ | 229 | \$ | 426 | \$ | 7,157 | \$ | 89,962 | \$ | 453,498 | \$ | 762,898 | \$ | 673,783 |
| Tools & Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 885 | \$ | 1,677 | \$ | 1,491 | \$ | 1,304 |
| Other Equipment | \$ | - | \$ | - | \$ | - | \$ | _ | \$ | 5,944 | \$ | 12,500 | \$ | 12,357 | \$ | 10,845 |
| Total Net Fixed Assets | \$ | 24 | ¢ | 229 | ¢ | 974 | ¢ | 15,145 | ¢ | 754,857 | ¢ | 1,810,513 | ¢ | 2,110,868 | \$ | 1,910,574 |
| Total Net Tiked Assets | Ψ | 27 | Ψ | 225 | Ψ | 514 | Ψ | 13,143 | Ψ | 754,057 | Ψ | 1,010,010 | Ψ | 2,110,000 | Ψ | 1,310,374 |
| Working Capital | | | | | | | | | | | | | | | | |
| Operating Expenses (from Sheet 2) | \$ | 1,330 | \$ | 2,550 | \$ | 2,063 | \$ | 1,701 | \$ | 14,122 | \$ | 24,117 | \$ | 19,048 | \$ | - |
| Working Capital Factor (from Sheet 3) | Ψ | 15% | Ŷ | 15% | Ψ | 15% | Ŷ | 12% | Ψ | 12% | Ŷ | 12% | Ψ | 12% | Ψ | 12% |
| Working Capital Allowance | \$ | 200 | \$ | 382 | \$ | 309 | \$ | 204 | \$ | 1,695 | \$ | 2,894 | \$ | 2,286 | \$ | - |
| | Ŷ | 200 | Ŧ | 002 | Ŷ | | Ŷ | 201 | Ŷ | 1,000 | Ŧ | 2,001 | Ŷ | 2,200 | Ŷ | |
| Incremental Smart Meter Rate Base | \$ | 224 | \$ | 612 | \$ | 1,283 | \$ | 15,349 | \$ | 756,552 | \$ | 1,813,407 | \$ | 2,113,154 | \$ | 1,910,574 |
| Return on Rate Base | | | | | | | | | | | | | | | | |
| Capital Structure | | | | | | | | | | | | | | | | |
| Deemed Short Term Debt | \$ | - | \$ | - | \$ | - | \$ | 614 | \$ | 30,262 | \$ | 72,536 | \$ | 84,526 | \$ | 76,423 |
| Deemed Long Term Debt | \$ | 112 | \$ | 306 | \$ | 684 | \$ | 8,089 | \$ | 423,669 | \$ | 1,015,508 | \$ | 1,183,366 | \$ | 1,069,922 |
| Equity | \$ | 112 | \$ | 306 | \$ | 599 | \$ | 6,646 | \$ | 302,621 | \$ | 725,363 | \$ | 845,261 | \$ | 764,230 |
| Preferred Shares | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| Total Capitalization | \$ | 224 | \$ | 612 | \$ | 1,283 | \$ | 15,349 | \$ | 756,552 | \$ | 1,813,407 | \$ | 2,113,154 | \$ | 1,910,574 |
| | | | | | | | | | | | | | | | | |
| Return on | | | | | | | | _ | | | | | | | | |
| Deemed Short Term Debt | \$ | - | \$ | - | \$ | - | \$ | 8 | \$ | 402 | \$ | 965 | \$ | 1,124 | \$ | 1,016 |
| Deemed Long Term Debt | \$ | 8 | \$ | 22 | \$ | 50 | \$ | 616 | \$ | 32,284 | \$ | 77,382 | \$ | 90,172 | \$ | 81,528 |
| Equity | \$ | 10 | \$ | 28 | \$ | 54 | \$ | 532 | \$ | 24,240 | \$ | 58,102 | \$ | 67,705 | \$ | 61,215 |
| Preferred Shares | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| Total Return on Capital | \$ | 18 | \$ | 50 | \$ | 104 | \$ | 1,157 | \$ | 56,926 | \$ | 136,448 | \$ | 159,002 | \$ | 143,759 |
| Operating Expenses | \$ | 1,330 | \$ | 2,550 | \$ | 2,063 | \$ | 1,701 | \$ | 14,122 | \$ | 24,117 | \$ | 19,048 | \$ | - |
| Amortization Expenses (from Sheet 4) | | | | | | | | | | | | | | | | |
| Smart Meters | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 41,871 | \$ | 90,093 | \$ | 97,017 | \$ | 97,590 |
| Computer Hardware | \$ | - | \$ | - | \$ | 122 | \$ | 1,802 | \$ | 11,748 | \$ | 20,452 | \$ | 20,769 | \$ | 20,769 |
| Computer Software | \$ | 5 | \$ | 52 | \$ | 108 | \$ | 1,627 | \$ | 20,390 | \$ | 105,707 | \$ | 197,953 | \$ | 222,139 |
| Tools & Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 93 | \$ | 186 | \$ | 186 | \$ | 186 |
| Other Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 626 | \$ | 1,382 | \$ | 1,512 | \$ | 1,512 |
| Total Amortization Expense in Year | \$ | 5 | \$ | 52 | \$ | 229 | \$ | 3,429 | \$ | 74,727 | \$ | 217,819 | \$ | 317,437 | \$ | 342,196 |
| Incremental Revenue Requirement before Taxes/PILs | \$ | 1,354 | \$ | 2,652 | \$ | 2,395 | \$ | 6,287 | \$ | 145,775 | \$ | 378,385 | \$ | 495,487 | \$ | 485,955 |
| Calculation of Taxable Income | | | | | | | | | | | | | | | | |
| Incremental Operating Expenses | \$ | 1,330 | \$ | 2,550 | \$ | 2,063 | \$ | 1,701 | \$ | 14,122 | \$ | 24,117 | \$ | 19,048 | \$ | - |
| Amortization Expense | \$ | 5 | \$ | 52 | \$ | 229 | \$ | 3,429 | \$ | 74,727 | \$ | 217,819 | \$ | 317,437 | \$ | 342,196 |
| Interest Expense | \$ | 8 | \$ | 22 | \$ | 50 | \$ | 625 | \$ | 32,686 | \$ | 78,346 | \$ | 91,297 | \$ | 82,544 |
| Net Income for Taxes/PILs | \$ | 10 | \$ | 28 | \$ | 54 | \$ | 532 | \$ | 24,240 | \$ | 58,102 | \$ | 67,705 | \$ | 61,215 |
| Grossed-up Taxes/PILs (from Sheet 7) | \$ | 4.32 | \$ | 3.12 | -\$ | 14.42 | -\$ | 458.15 | -\$ | 32,432.81 | -\$ | 57,374.16 | -\$ | 33,701.42 | \$ | - |
| | ¥ | | Ŧ | 5.12 | Ψ | | Ŧ | | Ψ | | Ŧ | | Ψ | 55,1 0 11 IE | Ψ | |
| Revenue Requirement, including Grossed-up Taxes/PILs | \$ | 1,358 | \$ | 2,655 | \$ | 2,381 | \$ | 5,829 | \$ | 113,342 | \$ | 321,011 | \$ | 461,786 | \$ | 485,955 |







For PILs Calculation

| UCC - Smart Meters | | 2006 ed Actual | Au | 2007 dited Actual | Au | 2008 dited Actual | Au | 2009 udited Actual | A | 2010 udited Actual | A | 2011 udited Actual | | 2012 Forecast | | 2013 Forecast |
|---|--|--|--|--|--|---|--|---|----------------------|--|--|--|----------------------------------|---|--|--|
| Opening UCC Capital Additions Retirements/Removals (if applicable) | \$ \$ | : | \$ \$ | - | \$ \$ | : | \$ \$ | : | \$ \$ | - 1,256,119.63 | \$ \$ | 1,130,507.67 190,546.50 | \$ \$ | 1,075,897.99 17,185.53 | \$ \$ | 876,185.37 - |
| UCC Before Half Year Rule | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 1,256,119.63 | \$ | 1,321,054.17 | \$ | 1,093,083.52 | \$ | 876,185.37 |
| Half Year Rule (1/2 Additions - Disposals) | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 628,059.82 | \$ | 95,273.25 | \$ | 8,592.77 | \$ | - |
| Reduced UCC | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 628,059.82 | \$ | 1,225,780.92 | \$ | 1,084,490.76 | \$ | 876,185.37 |
| CCA Rate Class | | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | | 8 |
| CCA Rate | 2 | 20% | | 20% | | 20% | | 20% | | 20% | | 20% | | 20% | | 20% |
| CCA | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 125,611.96 | \$ | 245,156.18 | \$ | 216,898.15 | \$ | 175,237.07 |
| Closing UCC | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 1,130,507.67 | \$ | 1,075,897.99 | \$ | 876,185.37 | \$ | 700,948.30 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| UCC - Computer Equipment | 2 | 006 | | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | | 2013 |
| UCC - Computer Equipment | | 006 ed Actual | Au | 2007 dited Actual | Au | 2008 dited Actual | Au | 2009 udited Actual | A | 2010 udited Actual | A | 2011 udited Actual | | 2012 Forecast | | 2013 Forecast |
| | | | Au \$ | dited Actual | Au \$ | | Au \$ | udited Actual | A) \$ | udited Actual | A (\$ | udited Actual | \$ | Forecast | \$ | Forecast |
| Opening UCC | | | Au \$ \$ | | Au \$ \$ | dited Actual 383.38 | Au \$ \$ | udited Actual 1,422.17 | | udited Actual 27,042.02 | A) \$ \$ | udited Actual 236,904.54 | \$ \$ | | \$ | |
| | | | Au \$ \$ \$ | dited Actual 45.91 | Au \$ \$ \$ | dited Actual | Au \$ \$ \$ | udited Actual | | udited Actual | A) \$ \$ \$ | udited Actual | \$ \$ \$ | Forecast | \$ \$ | Forecast |
| Opening UCC Capital Additions Computer Hardware | | ed Actual - - | Au \$ \$ \$ | dited Actual 45.91 - | Au \$ \$ \$ | dited Actual 383.38 1,216.75 | Au \$ \$ \$ | udited Actual 1,422.17 15,587.27 | | udited Actual 27,042.02 83,870.97 | A \$ \$ \$ | udited Actual 236,904.54 3,168.26 | \$ \$ \$ | Forecast 747,035.84 | \$ \$ \$ | Forecast |
| Opening UCC Capital Additions Computer Hardware Capital Additions Computer Software | | ed Actual - - | Au \$ \$ \$ | dited Actual 45.91 - | Au \$ \$ \$ | dited Actual 383.38 1,216.75 | Au \$ \$ \$ | udited Actual 1,422.17 15,587.27 | | udited Actual 27,042.02 83,870.97 | A \$ \$ \$ \$ | udited Actual 236,904.54 3,168.26 | \$ \$ \$ | Forecast 747,035.84 | \$ \$ \$ | Forecast |
| Opening UCC Capital Additions Computer Hardware Capital Additions Computer Software Retirements/Removals (if applicable) | | ed Actual - - 54.01 | Au \$ \$ \$ \$ \$ | dited Actual 45.91 - 413.22 | Au \$ \$ \$ \$ | dited Actual 383.38 1,216.75 140.67 | Au \$ \$ \$ \$ \$ | udited Actual 1,422.17 15,587.27 15,055.67 | | udited Actual 27,042.02 83,870.97 172,570.35 | A \$ \$ \$ \$ \$ | udited Actual 236,904.54 3,168.26 680,599.57 | \$ \$ \$ \$ | Forecast 747,035.84 - 241,859.92 | \$ \$ \$ \$ \$ | Forecast 728,506.02 - - |
| Opening UCC Capital Additions Computer Hardware Capital Additions Computer Software Retirements/Removals (if applicable) UCC Before Half Year Rule | | ed Actual - 54.01 54.01 | Au \$ \$ \$ \$ \$ \$ \$ | dited Actual 45.91 - 413.22 459.13 | Au \$ \$ \$ \$ \$ \$ \$ | dited Actual 383.38 1,216.75 140.67 1,740.80 | Au \$ \$ \$ \$ \$ \$ \$ \$ \$ | udited Actual 1,422.17 15,587.27 15,055.67 32,065.12 | \$ \$ \$ \$ | udited Actual 27,042.02 83,870.97 172,570.35 283,483.35 | A \$ \$ \$ \$ \$ \$ \$ | udited Actual 236,904.54 3,168.26 680,599.57 920,672.37 | \$ \$ \$ \$ \$ \$ | Forecast 747,035.84 241,859.92 988,895.76 | \$ \$ \$ \$ \$ \$ \$ | Forecast 728,506.02 - - |
| Opening UCC Capital Additions Computer Hardware Capital Additions Computer Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC CCA Rate Class | Audite \$ \$ \$ \$ \$ \$ | ed Actual - 54.01 54.01 27.00 27.00 46 | Au \$ \$ \$ \$ \$ \$ \$ | dited Actual 45.91 413.22 459.13 206.61 252.52 46 | Au \$ \$ \$ \$ \$ \$ \$ | dited Actual 383.38 1,216.75 140.67 1,740.80 678.71 1,062.09 46 | Au \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | udited Actual 1,422.17 15,587.27 15,055.67 32,065.12 15,321.47 16,743.64 46 | \$ \$ \$ \$ | udited Actual 27,042.02 83,870.97 172,570.35 283,483.35 128,220.66 155,262.69 46 | A \$ \$ \$ \$ \$ \$ | udited Actual 236,904.54 3,168.26 680,599.57 920,672.37 341,883.92 578,788.46 46 | \$ \$ \$ \$ \$ | Forecast 747,035.84 241,859.92 988,895.76 120,929.96 867,965.80 46 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Forecast 728,506.02 - - 728,506.02 728,506.02 46 |
| Opening UCC Capital Additions Computer Hardware Capital Additions Computer Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC CCA Rate Class CCA Rate | Audite \$ \$ \$ \$ \$ \$ | ed Actual 54.01 54.01 27.00 27.00 46 30% | Au \$ \$ \$ \$ \$ \$ | dited Actual 45.91 - 413.22 <u>459.13</u> 206.61 252.52 46 30% | Au \$ \$ \$ \$ \$ \$ \$ | dited Actual 383.38 1,216.75 140.67 1,740.80 678.71 1,062.09 46 30% | Au \$ \$ \$ \$ \$ \$ \$ \$ \$ | udited Actual 1,422.17 15,587.27 15,055.67 32,065.12 15,321.47 16,743.64 46 30% | \$ \$ \$ \$ | udited Actual 27,042.02 83,870.97 172,570.35 283,483.35 128,220.66 155,262.69 46 30% | A \$ \$ \$ \$ \$ \$ | udited Actual 236,904.54 3,168.26 680,599.57 920,672.37 341,883.92 578,788.46 46 30% | \$ \$ \$ \$ \$ | Forecast 747,035.84 241,859.92 988,895.76 120,929.96 867,965.80 46 30% | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Forecast 728,506.02 - - - 728,506.02 46 30% |
| Opening UCC Capital Additions Computer Hardware Capital Additions Computer Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC CCA Rate Class | Audite \$ \$ \$ \$ \$ \$ | ed Actual - 54.01 54.01 27.00 27.00 46 | Au \$ \$ \$ \$ \$ \$ | dited Actual 45.91 413.22 459.13 206.61 252.52 46 | Au \$ \$ \$ \$ \$ \$ | dited Actual 383.38 1,216.75 140.67 1,740.80 678.71 1,062.09 46 | Au \$ \$ \$ \$ \$ \$ \$ | udited Actual 1,422.17 15,587.27 15,055.67 32,065.12 15,321.47 16,743.64 46 | \$ \$ \$ \$ | udited Actual 27,042.02 83,870.97 172,570.35 283,483.35 128,220.66 155,262.69 46 | A \$ \$ \$ \$ \$ \$ | udited Actual 236,904.54 3,168.26 680,599.57 920,672.37 341,883.92 578,788.46 46 | \$ \$ \$ \$ \$ \$ | Forecast 747,035.84 241,859.92 988,895.76 120,929.96 867,965.80 46 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Forecast 728,506.02 - - 728,506.02 728,506.02 46 |



| UCC - General Equipment | | 006 d Actual | | 007 d Actual | Aud | 2008 lited Actual | Auc | 2009 dited Actual | Αι | 2010 udited Actual | Au | 2011 dited Actual | | 2012 Forecast | | 2013 Forecast |
|--|---|--|--------------------------------------|---|-----------------------------------|--|-----------------------------------|--|--|-----------------------|----------------------------------|----------------------|----------------------------|-----------------------------------|----------------------------|------------------|
| Opening UCC | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 12,939.41 | \$ | 12,697.10 | \$ | 10,157.68 |
| Capital Additions Tools & Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 1,863.28 | \$ | - | \$ | - | \$ | - |
| Capital Additions Other Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 12,513.84 | \$ | 2,606.20 | \$ | - | \$ | - |
| Retirements/Removals (if applicable) | | | | | | | | | | | | | | | | |
| UCC Before Half Year Rule | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 14,377.12 | \$ | 15,545.61 | \$ | 12,697.10 | \$ | 10,157.68 |
| Half Year Rule (1/2 Additions - Disposals) | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 7,188.56 | \$ | 1,303.10 | \$ | - | \$ | - |
| Reduced UCC | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 7,188.56 | \$ | 14,242.51 | \$ | 12,697.10 | \$ | 10,157.68 |
| CCA Rate Class | | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | | 8 |
| CCA Rate | 20 | 0% | 2 | 0% | | 20% | | 20% | | 20% | | 20% | | 20% | | 20% |
| CCA | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 1,437.71 | \$ | 2,848.50 | \$ | 2,539.42 | \$ | 2,031.54 |
| Closing UCC | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 12,939.41 | \$ | 12,697.10 | \$ | 10,157.68 | \$ | 8,126.15 |
| | | | | | | | | | | | | | | | | |
| UCC - Applications Software | 20 | 006 | 2 | 007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | | 2013 |
| UCC - Applications Software | | 006 d Actual | | 007 d Actual | Aud | 2008 lited Actual | Aud | 2009 dited Actual | Αι | 2010 udited Actual | Au | 2011 dited Actual | | 2012 Forecast | | 2013 Forecast |
| | | | | | Aud \$ | | Auc \$ | | A ւ Տ | | Au \$ | | \$ | | \$ | |
| Opening UCC | | | | | Aud \$ \$ | | Auc \$ \$ | | Αι \$ \$ | | Au \$ \$ | | \$ \$ | | \$ \$ | |
| Opening UCC Capital Additions Applications Software | | | | | Aud \$ \$ | | Auc \$ \$ | | Au \$ \$ | | Au \$ \$ | | \$ \$ | | \$ \$ | |
| Opening UCC | | | | | Aud \$ \$ \$ | | Auc \$ \$ \$ | | Au \$ \$ \$ | | Au \$ \$ \$ | | \$ \$ \$ | | \$ \$ \$ | |
| Opening UCC Capital Additions Applications Software Retirements/Removals (if applicable) UCC Before Half Year Rule | | | | | Aud \$ \$ \$ \$ | | Auc \$ \$ \$ \$ | | Au \$ \$ \$ \$ | | Au \$ \$ \$ \$ | | \$ \$ \$ | | \$ \$ \$ | |
| Opening UCC Capital Additions Applications Software Retirements/Removals (if applicable) | | | | | Aud \$ \$ \$ \$ \$ | | Auc \$ \$ \$ \$ \$ | | Au \$ \$ \$ \$ \$ \$ | | Au \$ \$ \$ \$ \$ | | \$ \$ \$ \$ | | \$ \$ \$ \$ \$ | |
| Opening UCC Capital Additions Applications Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) | | | | | Aud \$ \$ \$ \$ \$ | | Auc \$ \$ \$ \$ \$ | | Au \$ \$ \$ \$ \$ | | Au \$ \$ \$ \$ \$ | | \$ \$ \$ \$ \$ | | \$ \$ \$ \$ | |
| Opening UCC Capital Additions Applications Software Retirements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC | Audited \$ \$ \$ \$ \$ \$ | | Audite \$ \$ \$ \$ \$ | | Aud \$ \$ \$ \$ \$ | | Auc \$ \$ \$ \$ \$ | | AL \$ \$ \$ \$ \$ | | Au \$ \$ \$ \$ \$ | | \$ \$ \$ \$ | | \$ \$ \$ \$ \$ | |
| 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 | Audited \$ \$ \$ \$ \$ \$ | d Actual - - - - - 0 | Audite \$ \$ \$ \$ \$ | ed Actual - - - - - 0 | Aud \$ \$ \$ \$ | lited Actual - - - - - 0 | Auc \$ \$ \$ \$ | dited Actual - - - - - 0 | Au \$ \$ \$ \$ \$ | udited Actual 0 | Au \$ \$ \$ \$ \$ | dited Actual 0 | \$ \$ \$ \$ \$ | Forecast - - - - 0 | \$ \$ \$ \$ | Forecast 0 |



Bluewater Power Distribution Corporation

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 | ΤΑΧ | | | | | | | | | | | | | | | | |
| | Net Income | \$ | 10.07 | \$ | 27.52 | \$ | 53.93 | \$ | 532.35 | \$ | 24,239.92 | \$ | 58,101.57 | \$ | 67,705.45 | \$ | 61,214.80 |
| | Amortization | \$ | 5.40 | \$ | 52.12 | \$ | 229.19 | \$ | 3,429.23 | \$ | 74,727.16 | \$ | 217,819.45 | \$ | 317,436.94 | \$ | 342,195.78 |
| | CCA - Smart Meters | \$ | - | \$ | - | \$ | - | \$ | - | -\$ | 125,611.96 | -\$ | 245,156.18 | -\$ | 216,898.15 | -\$ | 175,237.07 |
| | CCA - Computers | -\$ | 8.10 | -\$ | 75.76 | -\$ | 318.63 | -\$ | 5,023.09 | -\$ | 46,578.81 | -\$ | 173,636.54 | -\$ | 260,389.74 | -\$ | 218,551.81 |
| | CCA - Applications Software | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| | CCA - Other Equipment | \$ | - | \$ | - | \$ | - | \$ | - | -\$ | 1,437.71 | -\$ | 2,848.50 | -\$ | 2,539.42 | -\$ | 2,031.54 |
| | Change in taxable income | \$ | 7.37 | \$ | 3.89 | -\$ | 35.50 | -\$ | 1,061.52 | -\$ | 74,661.40 | -\$ | 145,720.21 | -\$ | 94,684.93 | \$ | 7,590.16 |
| | Tax Rate (from Sheet 3) | | 36.12% | | 36.12% | | 33.50% | | 33.00% | | 31.00% | | 28.25% | | 26.25% | | 25.50% |
| | Income Taxes Payable | \$ | 2.66 | \$ | 1.41 | -\$ | 11.89 | -\$ | 350.30 | -\$ | 23,145.03 | -\$ | 41,165.96 | -\$ | 24,854.79 | \$ | 1,935.49 |
| ONTAR | Ο CAPITAL TAX | | | | | | | | | | | | | | | | |
| | Smart Meters | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 1,214,248.98 | \$ | 1,314,702.62 | \$ | 1,234,870.90 | \$ | 1,137,280.79 |
| | Computer Hardware | \$ | - | \$ | - | \$ | 1,095.08 | \$ | 14,880.27 | \$ | 87,003.34 | \$ | 69,719.78 | \$ | 48,951.12 | \$ | 28,182.47 |
| | Computer Software | ¢ | 48.61 | \$ | 409.71 | \$ | 442.87 | \$ | 13,871.39 | \$ | 166,051.99 | \$ | 740,944.82 | \$ | 784,852.05 | \$ | 562,713.37 |
| | (Including Application Software) | Ψ | 40.01 | Ψ | 403.71 | Ψ | 442.07 | Ψ | 13,071.39 | Ψ | · | Ψ | , | Ψ | | Ψ | |
| | Tools & Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 1,770.11 | \$ | 1,583.78 | \$ | 1,397.46 | \$ | 1,211.13 |
| | Other Equipment | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 11,888.15 | \$ | 13,112.66 | \$ | 11,600.65 | \$ | 10,088.65 |
| | Rate Base Less: Exemption | \$ | 48.61 | \$ | 409.71 | \$ | 1,537.94 | \$ | 28,751.66 | \$ | 1,480,962.57 | \$ | 2,140,063.66 | \$ | 2,081,672.18 | \$ | 1,739,476.40 |
| | Deemed Taxable Capital | \$ | 48.61 | \$ | 409.71 | \$ | 1,537.94 | \$ | 28,751.66 | \$ | 1,480,962.57 | \$ | 2,140,063.66 | \$ | 2,081,672.18 | \$ | 1,739,476.40 |
| | 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) | \$ | 0.15 | \$ | 0.92 | \$ | 3.46 | \$ | 64.69 | \$ | 1,110.72 | \$ | - | \$ | - | \$ | - |
| | | | | | | | | | | | | | | | | | |
| | Change in Income Taxes Payable | \$ | 2.66 | \$ | 1.41 | -\$ | 11.89 | -\$ | 350.30 | -\$ | 23,145.03 | -\$ | 41,165.96 | -\$ | 24,854.79 | \$ | 1,935.49 |
| | Change in OCT | \$ | 0.15 | \$ | 0.92 | \$ | 3.46 | \$ | 64.69 | \$ | 1,110.72 | \$ | - | \$ | - | \$ | - |
| | PILs | \$ | 2.81 | \$ | 2.33 | -\$ | 8.43 | -\$ | 285.61 | -\$ | 22,034.31 | -\$ | 41,165.96 | -\$ | 24,854.79 | \$ | 1,935.49 |
| Gross | Up PILs | | | | | | | | | | | | | | | | |
| | Tax Rate | | 36.12% | | 36.12% | | 33.50% | | 33.00% | | 31.00% | | 28.25% | | 26.25% | | 25.50% |
| | Change in Income Taxes Payable | \$ | 4.17 | \$ | 2.20 | -\$ | 17.88 | -\$ | 522.84 | -\$ | 33,543.53 | -\$ | 57,374.16 | -\$ | 33,701.42 | \$ | 2,597.97 |
| | Change in OCT | \$ | 0.15 | \$ | 0.92 | \$ | 3.46 | \$ | 64.69 | \$ | 1,110.72 | \$ | - | \$ | - | \$ | - |
| | PILs | \$ | 4.32 | \$ | 3.12 | -\$ | 14.42 | -\$ | 458.15 | -\$ | 32,432.81 | -\$ | 57,374.16 | -\$ | 33,701.42 | \$ | 2,597.97 |
| | | | | | | | | | | | | | | | | | |





Account 1555 - Sub-account Funding Adder Revenues

| Interest Rates | Approved Deferral and Variance Accounts | CWIP | Date | Year | Quarter | 0 | pening Balance (Principal) | Funding Adder Revenues | Interest Rate | Interest | Clo | sing Balance | Annu | ual amounts | E |
|----------------|---|-------|--------|-------|---------|----|-------------------------------|---------------------------|------------------|----------|-----|--------------|------|-------------|---|
| | | | | , our | quartor | | (i interpar) | noronaco | itute | | 0.0 | | , | | |
| 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 | \$ | - | \$ 5,056.30 | 4.59% | \$- | \$ | 5,056.30 | | | |
| 2008 Q3 | 3.35% | 5.43% | Nov-06 | 2006 | Q4 | \$ | 5,056.30 | \$ 850.83 | 4.59% | \$ 19.34 | \$ | 5,926.47 | | | |
| 2008 Q4 | 3.35% | 5.43% | Dec-06 | 2006 | Q4 | \$ | 5,907.13 | \$ 815.13 | 4.59% | \$ 22.59 | \$ | 6,744.85 | \$ | 6,764.19 | |
| 2009 Q1 | 2.45% | 6.61% | Jan-07 | 2007 | Q1 | \$ | 6,722.26 | \$ 1,265.62 | 4.59% | \$ 25.71 | \$ | 8,013.59 | | | |
| 2009 Q2 | 1.00% | 6.61% | Feb-07 | 2007 | Q1 | \$ | 7,987.88 | \$ 680.49 | 4.59% | \$ 30.55 | \$ | 8,698.92 | | | |
| 2009 Q3 | 0.55% | 5.67% | Mar-07 | 2007 | Q1 | \$ | 8,668.37 | \$ 1,192.57 | 4.59% | \$ 33.16 | \$ | 9,894.10 | | | |
| 2009 Q4 | 0.55% | 4.66% | Apr-07 | 2007 | Q2 | \$ | 9,860.94 | \$ 709.77 | 4.59% | \$ 37.72 | \$ | 10,608.43 | | | |
| 2010 Q1 | 0.55% | 4.34% | May-07 | 2007 | Q2 | \$ | 10,570.71 | \$ 709.77 | 4.59% | \$ 40.43 | \$ | 11,320.91 | | | |
| 2010 Q2 | 0.55% | 4.34% | Jun-07 | 2007 | Q2 | \$ | 11,280.48 | \$ 1,169.53 | 4.59% | \$ 43.15 | \$ | 12,493.16 | | | |
| 2010 Q3 | 0.89% | 4.66% | Jul-07 | 2007 | Q3 | \$ | 12,450.01 | \$ 1,120.25 | 4.59% | \$ 47.62 | \$ | 13,617.89 | | | |
| 2010 Q4 | 1.20% | 4.01% | Aug-07 | 2007 | Q3 | \$ | 13,570.27 | \$ 907.60 | 4.59% | \$ 51.91 | \$ | 14,529.77 | | | |
| 2011 Q1 | 1.47% | 4.29% | Sep-07 | 2007 | Q3 | \$ | 14,477.86 | \$ 907.22 | 4.59% | \$ 55.38 | \$ | 15,440.46 | | | |
| 2011 Q2 | 1.47% | 4.29% | Oct-07 | 2007 | Q4 | \$ | 15,385.08 | \$ 997.08 | 5.14% | \$ 65.90 | \$ | 16,448.06 | | | |
| 2011 Q3 | 1.47% | 4.29% | Nov-07 | 2007 | Q4 | \$ | 16,382.16 | \$ 991.43 | 5.14% | \$ 70.17 | \$ | 17,443.76 | | | |
| 2011 Q4 | 1.47% | 3.92% | Dec-07 | 2007 | Q4 | \$ | 17,373.59 | \$ 783.08 | 5.14% | \$ 74.42 | \$ | 18,231.09 | \$ | 12,010.52 | |
| 2012 Q1 | 1.47% | 3.92% | Jan-08 | 2008 | Q1 | \$ | 18,156.67 | \$ 1,228.93 | 5.14% | \$ 77.77 | \$ | 19,463.36 | | | |
| 2012 Q2 | 1.47% | 3.51% | Feb-08 | 2008 | Q1 | \$ | 19,385.59 | \$ 700.90 | 5.14% | \$ 83.03 | \$ | 20,169.53 | | | |
| 2012 Q3 | 1.47% | 3.51% | Mar-08 | 2008 | Q1 | \$ | 20,086.50 | \$ 1,010.92 | 5.14% | \$ 86.04 | \$ | 21,183.45 | | | |
| 2012 Q4 | 1.47% | 3.51% | Apr-08 | 2008 | Q2 | \$ | 21,097.41 | \$ 989.03 | 4.08% | \$ 71.73 | \$ | 22,158.18 | | | |
| 2013 Q1 | | | May-08 | 2008 | Q2 | \$ | 22,086.45 | \$ 1,005.49 | 4.08% | \$ 75.09 | \$ | 23,167.03 | | | |
| 2013 Q2 | | | Jun-08 | 2008 | Q2 | \$ | 23,091.94 | \$ 821.19 | 4.08% | \$ 78.51 | \$ | 23,991.64 | | | |
| 2013 Q3 | | | Jul-08 | 2008 | Q3 | \$ | 23,913.13 | \$ 1,178.58 | 3.35% | \$ 66.76 | \$ | 25,158.47 | | | |



Board Approved Smart Meter Funding Adder (from Tariff)

\$ 0.10 0.26 \$ \$ 0.26 6,764.19 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 12,010.52 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26 \$ 0.26



Account 1555 - Sub-account Funding Adder Revenues

| | Approved Deferral | | | | | | | | | Internet | | | | | | | rd Approved Smart |
|----------------|--------------------------|------|--------|---------------------|---------------|---------|-------------------------------|----|---------------------------|------------------|----------|------|----------------|-----|-------------|----|------------------------------------|
| Interest Rates | and Variance Accounts | CWIP | Date | Veer | Ouerter | 0 | pening Balance (Principal) | ł | Funding Adder Revenues | Interest Rate | Interest | c | losing Balance | Ann | ual amounte | Ne | ter Funding Adder (from Tariff) |
| 2013 Q4 | Accounts | | Aug-08 | Year 2008 | Quarter Q3 | \$ | (Fincipal) 25,091.71 | ¢ | 719.91 | 3.35% | | | - | Ann | | \$ | 0.26 |
| 2010 Q4 | | | Sep-08 | 2008 | Q3 | Ψ \$ | 25,811.62 | | 770.46 | 3.35% | | - | | | | \$ | 0.26 |
| | | | Oct-08 | 2008 | Q3 Q4 | \$ | 26,582.09 | | 980.16 | 3.35% | | | | | | \$ | 0.26 |
| | | | Nov-08 | 2008 | Q4 | \$ | 27,562.25 | | 919.65 | 3.35% | | | | | | \$ | 0.26 |
| | | | Dec-08 | 2008 | Q4 | \$ | 28,481.90 | | 1,108.53 | 3.35% | | | | \$ | 12,345.47 | | 0.26 |
| | | | Jan-09 | 2009 | Q1 | \$ | 29,590.43 | | 1,284.75 | 2.45% \$ | | | | | , | \$ | 0.26 |
| | | | Feb-09 | 2009 | Q1 | \$ | 30,875.19 | | 684.90 | 2.45% | | \$ | | | | \$ | 0.26 |
| | | | Mar-09 | 2009 | Q1 | \$ | 31,560.09 | | 1,132.38 | 2.45% | 64.44 | \$ | | | | \$ | 0.26 |
| | | | Apr-09 | 2009 | Q2 | \$ | 32,692.47 | \$ | 904.46 | 1.00% \$ | 5 27.24 | \$ | 33,624.17 | | | \$ | 0.26 |
| | | | May-09 | 2009 | Q2 | \$ | 33,596.93 | \$ | 1,022.23 | 1.00% \$ | § 28.00 |) \$ | 34,647.17 | | | \$ | 0.26 |
| | | | Jun-09 | 2009 | Q2 | \$ | 34,619.17 | \$ | 822.75 | 1.00% \$ | 28.85 | 5 \$ | 35,470.77 | | | \$ | 0.26 |
| | | | Jul-09 | 2009 | Q3 | \$ | 35,441.92 | \$ | 1,214.61 | 0.55% \$ | 6 16.24 | \$ | 36,672.76 | | | \$ | 0.26 |
| | | | Aug-09 | 2009 | Q3 | \$ | 36,656.52 | \$ | 677.27 | 0.55% \$ | 6 16.80 |) \$ | 37,350.59 | | | \$ | 0.26 |
| | | | Sep-09 | 2009 | Q3 | \$ | 37,333.79 | | 1,040.90 | 0.55% \$ | | \$ | 38,391.80 | | | \$ | 0.26 |
| | | | Oct-09 | 2009 | Q4 | \$ | 38,374.69 | | 762.31 | 0.55% \$ | | - | | | | \$ | 0.26 |
| | | | Nov-09 | 2009 | Q4 | \$ | 39,137.00 | | 978.22 | 0.55% \$ | | - | , | | | \$ | 0.26 |
| | | | Dec-09 | 2009 | Q4 | \$ | 40,115.21 | | 782.26 | 0.55% \$ | | | | \$ | 11,683.09 | | 0.26 |
| | | | Jan-10 | 2010 | Q1 | \$ | 40,897.47 | | 1,084.00 | 0.55% \$ | | - | | | | \$ | 0.26 |
| | | | Feb-10 | 2010 | Q1 | \$ | 41,981.47 | | 699.75 | 0.55% \$ | | - | | | | \$ | 0.26 |
| | | | Mar-10 | 2010 | Q1 | \$ | 42,681.21 | | 1,198.71 | 0.55% \$ | | | | | | \$ | 0.26 |
| | | | Apr-10 | 2010 | Q2 | \$ | 43,879.93 | | 653.65 | 0.55% \$ | | - | | | | \$ | 0.26 |
| | | | May-10 | 2010 | Q2 | \$ | 44,533.58 | | 1,122.94 | 0.55% \$ | | - | | | | \$ | 1.00 |
| | | | Jun-10 | 2010 | Q2 | \$ | 45,656.52 | | 1,771.48 | 0.55% \$ | | | | | | \$ | 1.00 |
| | | | Jul-10 | 2010 | Q3 | \$ | 47,428.00 | | 2,547.93 | 0.89% 3 | | | | | | \$ | 1.00 |
| | | | Aug-10 | 2010 | Q3 | \$ | 49,975.93 | | 4,321.82 | 0.89% 3 | | | | | | \$ | 1.00 |
| | | | Sep-10 | 2010 | Q3 | \$ | 54,297.75 | | 3,602.46 | 0.89% 3 | | | | | | \$ | 1.00 |
| | | | Oct-10 | 2010 | Q4 | \$ | 57,900.21 | | 3,234.81 | 1.20% \$ | | - | | | | \$ | 1.00 |
| | | | Nov-10 | 2010 | Q4 | \$ | 61,135.03 | | 3,796.08 | 1.20% \$ | | - | | • | 07 (50 00 | \$ | 1.00 |
| | | | Dec-10 | 2010 | Q4 | \$ | 64,931.11 | | 3,007.18 | 1.20% \$ | | | | \$ | 27,456.29 | | 1.00 |
| | | | Jan-11 | 2011 | Q1 | \$ | 67,938.28 | | 3,881.78 | 1.47% | | | | | | \$ | 1.00 |
| | | | Feb-11 | 2011 | Q1 | \$ | 71,820.07 | | 3,217.75 | 1.47% | | - | | | | \$ | 1.00 |
| | | | Mar-11 | 2011 | Q1 | \$ | 75,037.81 | \$ | 4,221.34 | 1.47% \$ | 91.92 | \$ | 79,351.07 | | | \$ | 1.00 |



Account 1555 - Sub-account Funding Adder Revenues

| | Approved Deferral and Variance | CWIP | | | | c | Opening Balance | F | Funding Adder | Interest | | | | | | | rd Approved Smart ter Funding Adder |
|----------------|-----------------------------------|-------|--------|------|---------|----|-----------------|----|---------------|----------|----|----------|------|--------------|-----|-------------|--|
| Interest Rates | Accounts | C WII | Date | Year | Quarter | | (Principal) | | Revenues | Rate | | Interest | Clos | sing Balance | Ann | ual amounts | (from Tariff) |
| | | | Apr-11 | 2011 | Q2 | \$ | 79,259.15 | _ | 2,801.24 | 1.47% | - | 97.09 | \$ | 82,157.48 | | | \$ 1.00 |
| | | | May-11 | 2011 | Q2 | \$ | 82,060.39 | _ | 4,202.00 | 1.47% | | 100.52 | | 86,362.91 | | | \$ 2.00 |
| | | | Jun-11 | 2011 | Q2 | \$ | 86,262.39 | _ | 4,400.99 | 1.47% | | 105.67 | | 90,769.05 | | | \$ 2.00 |
| | | | Jul-11 | 2011 | Q3 | \$ | 90,663.38 | _ | 7,749.55 | 1.47% | | 111.06 | | 98,523.99 | | | \$ 2.00 |
| | | | Aug-11 | 2011 | Q3 | \$ | 98,412.93 | _ | 6,540.58 | 1.47% | | 120.56 | | 105,074.06 | | | \$ 2.00 |
| | | | Sep-11 | 2011 | Q3 | \$ | 104,953.50 | _ | 8,090.24 | 1.47% | | 128.57 | | 113,172.31 | | | \$ 2.00 |
| | | | Oct-11 | 2011 | Q4 | \$ | 113,043.74 | _ | 5,390.31 | 1.47% | | 138.48 | | 118,572.53 | | | \$ 2.00 |
| | | | Nov-11 | 2011 | Q4 | \$ | 118,434.05 | _ | 8,767.40 | 1.47% | | 145.08 | | 127,346.53 | | | \$ 2.00 |
| | | | Dec-11 | 2011 | Q4 | \$ | 127,201.45 | _ | 4,848.30 | 1.47% | | 155.82 | | 132,205.57 | \$ | 65,477.44 | \$ 2.00 |
| | | | Jan-12 | 2012 | Q1 | \$ | 132,049.75 | _ | 9,111.41 | 1.47% | | 161.76 | | 141,322.92 | | | \$ 2.00 |
| | | | Feb-12 | | Q1 | \$ | 141,161.16 | _ | 5,313.99 | 1.47% | - | 172.92 | | 146,648.07 | | | \$ 2.00 |
| | | | Mar-12 | | Q1 | \$ | 146,475.15 | _ | 8,363.55 | 1.47% | | 179.43 | | 155,018.12 | | | \$ 2.00 |
| | | | Apr-12 | | Q2 | \$ | 154,838.69 | _ | 5,652.25 | 1.47% | | 189.68 | | 160,680.62 | | | \$ 2.00 |
| | | | May-12 | 2012 | Q2 | \$ | 160,490.94 | _ | 7,250.19 | 1.47% | | 196.60 | | 167,937.73 | | | |
| | | | Jun-12 | 2012 | Q2 | \$ | 167,741.13 | \$ | 3,625.09 | 1.47% | - | 205.48 | | 171,571.70 | | | |
| | | | Jul-12 | 2012 | Q3 | \$ | 171,366.22 | | | 1.47% | | 209.92 | | 171,576.14 | | | |
| | | | Aug-12 | | Q3 | \$ | 171,366.22 | | | 1.47% | | 209.92 | | 171,576.14 | | | |
| | | | Sep-12 | | Q3 | \$ | 171,366.22 | | | 1.47% | | 209.92 | | 171,576.14 | | | |
| | | | Oct-12 | 2012 | Q4 | \$ | 171,366.22 | | | 1.47% | | 209.92 | \$ | 171,576.14 | | | |
| | | | Nov-12 | 2012 | Q4 | \$ | 171,366.22 | | | 0.00% | | - | \$ | 171,366.22 | | | |
| | | | Dec-12 | 2012 | Q4 | \$ | 171,366.22 | \$ | 10,528.00 | 0.00% | | - | \$ | 181,894.22 | \$ | 51,790.02 | |
| | | | Jan-13 | 2013 | Q1 | \$ | 181,894.22 | | | 0.00% | \$ | - | \$ | 181,894.22 | | | |
| | | | Feb-13 | 2013 | Q1 | \$ | 181,894.22 | | | 0.00% | \$ | - | \$ | 181,894.22 | | | |
| | | | Mar-13 | 2013 | Q1 | \$ | 181,894.22 | | | 0.00% | \$ | - | \$ | 181,894.22 | | | |
| | | | Apr-13 | 2013 | Q2 | \$ | 181,894.22 | | | 0.00% | | - | \$ | 181,894.22 | | | |
| | | | May-13 | 2013 | Q2 | \$ | 181,894.22 | | | 0.00% | \$ | - | \$ | 181,894.22 | | | |
| | | | Jun-13 | 2013 | Q2 | \$ | 181,894.22 | | | 0.00% | | - | \$ | 181,894.22 | | | |
| | | | Jul-13 | 2013 | Q3 | \$ | 181,894.22 | | | 0.00% | | - | \$ | 181,894.22 | | | |
| | | | Aug-13 | 2013 | Q3 | \$ | 181,894.22 | | | 0.00% | \$ | - | \$ | 181,894.22 | | | |
| | | | Sep-13 | 2013 | Q3 | \$ | 181,894.22 | | | 0.00% | | - | \$ | 181,894.22 | | | |
| | | | Oct-13 | 2013 | Q4 | \$ | 181,894.22 | | | 0.00% | \$ | - | \$ | 181,894.22 | | | |
| | | | Nov-13 | 2013 | Q4 | \$ | 181,894.22 | | | 0.00% | \$ | - | \$ | 181,894.22 | | | |



| Interest Rates | Approved Deferral and Variance Accounts | CWIP | Date Dec-13 | Year 2013 | Quarter Q4 | 0 \$ | Opening Balance (Principal) 181,894.22 | Funding Adder Revenues | Interest Rate FALSE | \$ Interest_ | Clos \$ | sing Balance 181,894.22 | |
|----------------|---|------|----------------|---------------------|----------------------|---------|--|-------------------------------|---------------------------|-----------------|------------|----------------------------|----|
| | | | Total Fundi | ng Ad | der Reve | enue | s Collected | \$ 181,894.22 | • | \$ 5,632.80 | \$ | 187,527.02 | \$ |

Appendix 4 Response to VECC 7a GS<50 Model

187,527.02



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

| 2006 Q1 0.00% 0.00% Jan-06 2006 Q1 S - S - S 0.10 0.00% 2006 Q2 4.14% 4.68% Feb-06 2006 Q1 0.10 S - 0.10 0.00% 2006 Q3 4.59% 4.72% Apr-06 2006 Q2 0.10 S - 0.10 4.14% 2007 Q1 4.59% 4.72% May-06 2006 Q2 10.10 S 157.53 4.14% 2007 Q2 4.59% 4.72% Jun-06 2006 Q2 157.53 S - S - 157.53 4.14% 2007 Q3 4.59% 5.18% Jun-06 2006 Q2 157.53 S - S - 157.53 4.59% 2008 Q1 5.14% 5.18% Jun-06 2006 Q2 157.53 S 1.038.75 - 157.53 4.59% 2008 Q1 2.45% 6.81% Dec-06 2007 1.332.27 \$ - 1 | 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 | Interes oper balar |
|--|---------------------------------|--|-------|--------|------|---------|--------------------------------|---------------|---|--------------------------------|------------------------------|--------------------------|
| 2006 03 4.59% 50% Mar-06 2008 0.1 0.10 \$ 0.10 0.00% 2007 04 4.59% 4.72% May-06 2008 0.2 0.10 \$ 157.43 \$ 157.53 4.14% 2007 02 4.59% 4.72% Jun-06 2008 0.2 157.53 \$ \$ 157.53 4.14% 2007 04 5.14% 5.18% Jun-06 2008 0.2 157.53 \$ \$ 157.53 4.59% 2007 04 5.14% 5.18% Aug-06 2008 0.2 157.53 \$ \$ 1157.53 4.59% 2008 02 4.08% 5.18% Aug-06 2008 0.4 1,316.06 1.517.53 4.59% 2008 03 3.35% 5.43% Nov-06 2009 0.4 1,318.66 1.332.27 4.59% 2008 02 1.00% 6.61% Jan-07 2007 0.1 1,332.27 \$ 1.336.61 4.59% 2009 03 0.55% May-07 2007 0.1 1,332.45 272.2 <td>2006 Q1</td> <td>0.00%</td> <td>0.00%</td> <td>Jan-06</td> <td>2006</td> <td>Q1</td> <td>\$ -</td> <td>\$ -</td> <td>\$ 0.10</td> <td>0.10</td> <td>0.00%</td> <td></td> | 2006 Q1 | 0.00% | 0.00% | Jan-06 | 2006 | Q1 | \$ - | \$ - | \$ 0.10 | 0.10 | 0.00% | |
| 2006 Q4 4.59% 4.72% Apr.06 2.005 Q2 0.10 \$ - 10.10 4.14% 2007 Q1 4.59% 4.72% Jun.06 2.006 Q2 0.10 \$ 157.53 \$ - 157.53 4.14% 2007 Q3 4.59% 5.18% Jul.06 2.006 Q3 157.53 \$ - \$ 157.53 4.59% 2007 Q4 5.14% 5.18% Aug.06 2.006 Q3 157.53 \$ - \$ 157.53 4.59% 2008 Q1 5.14% 5.18% Sep.06 2.006 Q4 157.53 \$ - 157.53 4.59% 2008 Q2 4.08% 5.18% Nov.06 2.006 Q4 1.314.60 \$ 119.3 \$ 1.68 1.332.27 4.59% 2008 Q4 3.35% 5.43% Dec-06 2.006 Q4 1.336.14 \$ 2.72.2 > - 1.383.36 4.59% 2009 Q2 1.00% 6.61% Jan.07 2.007 Q1 1.336.14 \$ | 2006 Q2 | 4.14% | 4.68% | Feb-06 | 2006 | Q1 | 0.10 | | | 0.10 | 0.00% | |
| 2007 O.1 4.59% 4.72% May-06 2008 0.2 0.10 \$ 157.43 \$ - 157.53 4.14% 2007 O2 4.59% 4.72% Jun-06 2006 0.3 157.53 \$ - \$ - 157.53 4.14% 2007 O4 5.14% 5.18% Aug-06 2008 0.3 157.53 \$ - \$ - 157.53 4.59% 2008 O2 4.08% 5.18% Sep-06 2008 0.3 157.53 \$ - \$ - 157.53 4.59% 2008 O2 4.08% 5.18% Oct-06 2008 0.4 157.53 \$ 1.03.87 - 1,318.66 4.59% 2008 O2 4.08% Dec-06 2008 0.4 1,318.65 \$ 1.68 1,332.27 4.59% 2009 O2 1.05% 6.61% Jan-07 2007 0.1 1,333.65 \$ - 1,318.66 4.59% 2009 O2 1.00% 6.51% Mar-07 2007 0.2 1,410.58 \$< | 2006 Q3 | 4.59% | 5.05% | Mar-06 | 2006 | Q1 | 0.10 | \$ - | | 0.10 | 0.00% | |
| 2007 Q2 4.59% 4.72% Jun-06 2006 Q2 157.53 \$ - \$ - 157.53 4.14% 2007 Q3 4.59% 5.18% Jul-06 2006 Q3 157.53 \$ - \$ - 157.53 4.59% 2007 Q4 5.14% 5.18% Aug-06 2006 Q3 157.53 \$ - \$ - 157.53 4.59% 2008 Q1 5.14% 5.18% Oct-06 2006 Q4 157.53 \$ - \$ - 1,914.04 4.59% 2008 Q3 3.35% 5.43% Nov-06 2006 Q4 1,318.66 \$ 11.93 \$ 1.68 1,332.27 4.59% 2009 Q2 1.00% 6.61% Jun-07 2007 Q1 1,332.27 \$ - 1,348.64 4.59% 2009 Q2 1.00% 6.61% Har-07 2007 Q1 1,332.27 \$ - 1,447.68 4.59% 2009 Q4 0.55% 4.66% Mar-07 2007 Q2 <t< td=""><td>2006 Q4</td><td>4.59%</td><td>4.72%</td><td>Apr-06</td><td>2006</td><td>Q2</td><td>0.10</td><td>\$ -</td><td></td><td>0.10</td><td>4.14%</td><td></td></t<> | 2006 Q4 | 4.59% | 4.72% | Apr-06 | 2006 | Q2 | 0.10 | \$ - | | 0.10 | 4.14% | |
| 2007 Q3 4.59% 5.18% Jul-06 2006 0.3 157.53 \$ - \$ - 157.53 4.59% 2007 Q4 5.14% 5.18% Sep-06 2006 0.3 157.53 \$ - \$ - 157.53 4.59% 2008 Q2 4.08% 5.18% Oct-06 2006 0.4 157.53 \$ - \$ - 157.53 4.59% 2008 Q3 3.35% 5.43% Dec-06 2006 0.4 1.191.40 \$ 1.191.40 4.59% 2009 Q1 2.45% 6.61% Jan-07 2007 0.7 1.332.27 \$ 2.386 \$ - 1.365.14 4.59% 2009 Q2 1.00% 6.61% Jan-07 2007 0.7 1.332.27 \$ 2.386 \$ - 1.365.14 4.59% 2009 Q2 1.00% 6.61% Apr-07 2007 0.7 1.383.36 \$ 2.722 \$ - 1.410.58 4.59% 2010 Q2 0.55% 4.34% Jan-07 2007< | 2007 Q1 | 4.59% | 4.72% | May-06 | 2006 | Q2 | 0.10 | \$ 157.43 | \$ - | 157.53 | 4.14% | |
| 2007 Q4 5.14% 5.18% Aug-06 2008 Q3 157.53 \$ - \$ - 157.53 4.59% 2008 Q1 5.14% 5.18% Octo6 2006 Q4 157.53 \$ - \$ - 157.53 4.59% 2008 Q3 3.35% 5.43% Nov-06 2006 Q4 157.53 \$ - 1,318.66 4.59% 2009 Q1 2.45% 6.61% Jan-07 2007 Q1 1,332.27 \$ - 1,386.61 4.59% 2009 Q2 1.00% 6.61% Jan-07 2007 Q1 1,332.61 \$ - 1,383.36 4.59% 2009 Q3 0.55% 5.67% Mar-07 2007 Q2 1,410.88 \$ - 1,410.58 4.59% 2010 Q1 0.55% 4.66% Apr-07 2007 Q2 1,437.80 \$ 169.33 - 1,598.17 4.59% 2010 Q2 0.55% 4.34% Jun-07 2007 Q2 1,437.80 \$ - 2,356.33 5 - 1,437.80 4.59% 2010 Q2 <td< td=""><td>2007 Q2</td><td>4.59%</td><td>4.72%</td><td>Jun-06</td><td>2006</td><td>Q2</td><td>157.53</td><td>\$ -</td><td>\$ -</td><td>157.53</td><td>4.14%</td><td></td></td<> | 2007 Q2 | 4.59% | 4.72% | Jun-06 | 2006 | Q2 | 157.53 | \$ - | \$ - | 157.53 | 4.14% | |
| 2008 Q1 5.14% 5.18% Sep-06 2006 Q3 157.53 \$ - 157.53 \$ - 2008 Q2 4.08% 5.18% Oct-06 2006 Q4 157.53 \$ 1.03.87 \$ - 1,191.40 4.59% 2008 Q3 3.35% 5.43% Nov-06 2006 Q4 1.318.66 \$ 1127.27 \$ - 1.318.66 4.59% 2009 Q1 2.45% 6.61% Jan-07 2007 01 1.356.14 \$ 7.22 \$ 1.38.66 4.59% 2009 Q2 1.00% 6.61% Feb-07 2007 01 1.366.14 \$ 5.9% 1.437.80 4.59% 2009 Q3 0.55% 5.67% Mar-07 2007 02 1.437.80 \$ 1.60.38 \$ - 1.410.58 4.59% 2010 Q1 0.55% 4.34% Mar-07 2007 02 1.437.80 \$ 5 - 1.437.80 4.59% 2010 Q4 0.55% 4.34% Jun-07 2007 02 1.437.80 \$ <td< td=""><td>2007 Q3</td><td>4.59%</td><td>5.18%</td><td>Jul-06</td><td>2006</td><td>Q3</td><td>157.53</td><td>\$ -</td><td>\$ -</td><td>157.53</td><td>4.59%</td><td></td></td<> | 2007 Q3 | 4.59% | 5.18% | Jul-06 | 2006 | Q3 | 157.53 | \$ - | \$ - | 157.53 | 4.59% | |
| 2008 Q2 4.08% 5.18% Oct-06 2006 0.4 157.53 \$ 1,033.87 \$ - 1,191.40 4.59% 2008 Q3 3.35% 5.43% Nov-06 2006 0.4 1,191.40 \$ 127.27 \$ - 1,131.866 4.59% 2009 Q1 2.45% 6.61% Jan-07 2007 0.1 1,322.27 \$ 23.86 \$ - 1,338.36 4.59% 2009 Q2 1.00% 6.61% Feb-07 2007 0.1 1,383.36 \$ 27.22 \$ - 1,333.36 4.59% 2009 Q4 0.55% 4.66% Apr-07 2007 0.1 1,383.36 \$ 27.22 \$ - 1,437.80 4.59% 2010 Q1 0.55% 4.36% May-07 2007 0.2 1,437.80 \$ 160.38 \$ - 1,834.34 4.59% 2010 Q2 0.55% 4.36% Jun-07 2007 0.2 1,437.80 \$ 160.38 \$ - 1,834.34 4.59% 2010 Q4 1.20% 4.01% Aug-07 2007 0.3 2,356.33 \$ 646.50 \$ - 2,224.99 | 2007 Q4 | 5.14% | 5.18% | Aug-06 | 2006 | Q3 | 157.53 | \$ - | \$ - | 157.53 | 4.59% | |
| 2008 Q3 3.35% 5.43% Nov-06 2006 0.4 1,191.40 \$ 127.27 \$ - 1,318.66 4.59% 2008 Q4 3.35% 5.43% Dec-06 2006 0.4 1,318.66 \$ 11.93 \$ 1.68 1,332.27 4.59% 2009 Q1 2.45% 6.61% Jan-07 2007 0.1 1,332.27 \$ 23.86 \$ - 1,336.14 4.59% 2009 Q2 1.00% 6.61% Feb-07 2007 0.1 1,356.14 \$ 27.22 \$ - 1,437.80 4.59% 2009 Q4 0.55% 4.66% Apr-07 2007 0.2 1,417.80 \$ 160.38 - 1,598.17 4.59% 2010 Q1 0.55% 4.34% Jun-07 2007 0.2 1,598.17 \$ 236.17 \$ - 1,834.34 4.59% 2010 Q3 0.89% 4.66% Jul-07 2007 0.3 2,224.99 \$ 131.34 \$ - 2,366.33 4.59% 2011 Q1 1.47% 4.29% Sep-07 2007 0.3 2,224.99 \$ 300.24 4.59% 2011 | 2008 Q1 | 5.14% | 5.18% | Sep-06 | 2006 | Q3 | 157.53 | \$ - | \$ - | 157.53 | 4.59% | |
| 2008 Q4 3.35% 5.43% Dec-06 2006 Q4 1,318.66 \$ 11.93 \$ 1.68 1,332.27 4.59% 2009 Q1 2.45% 6.61% Jan-07 2007 Q1 1,332.27 \$ 23.86 \$ - 1,366.14 4.59% 2009 Q2 1.00% 6.61% Feb-07 2007 Q1 1,383.36 \$ 27.22 \$ - 1,410.58 4.59% 2009 Q4 0.55% 4.66% Apr-07 2007 Q2 1,437.80 \$ 1,437.80 4.59% 2010 Q1 0.55% 4.34% May-07 2007 Q2 1,598.17 \$ - 1,834.34 4.59% 2010 Q3 0.89% 4.66% Jul-07 2007 Q3 1,834.34 \$ 390.66 \$ - 1,834.34 4.59% 2011 Q3 0.89% 4.66% Jul-07 2007 Q3 2,224.99 \$ 131.34 \$ - 3,056.35 - 1,834.34 4.59% 2011 Q2 1.47% 4.29% Oct-07 2007 | 2008 Q2 | 4.08% | 5.18% | Oct-06 | 2006 | Q4 | 157.53 | \$ 1,033.87 | \$ - | 1,191.40 | 4.59% | |
| 2009 Q1 2.45% 6.61% Jan-07 2007 Q1 1,332.27 \$ 23.86 \$ - 1,356.14 4.59% 2009 Q2 1.00% 6.61% Feb-07 2007 Q1 1,356.14 \$ 27.22 \$ - 1,313.36 4.59% 2009 Q3 0.55% 5.67% Mar-07 2007 Q2 1,410.58 \$ 27.22 \$ - 1,410.58 4.59% 2010 Q1 0.55% 4.34% May-07 2007 Q2 1,437.80 \$ 160.38 \$ - 1,437.80 4.59% 2010 Q2 0.55% 4.34% Jun-07 2007 Q2 1,581.47 \$ 236.17 \$ - 1,437.80 4.59% 2010 Q3 0.89% 4.66% Jun-07 2007 Q2 1,581.47 \$ 236.17 \$ - 1,834.34 4.59% 2010 Q3 0.89% 4.66% Jun-07 2007 Q3 2,224.99 \$ 313.45 \$ - 2,224.99 4.59% 2011 Q1 1.47% 4.29% Oct-07 2007 Q4 3,028.45 \$ 161.43 \$ 5.45% - 3,058.85 | 2008 Q3 | 3.35% | 5.43% | Nov-06 | 2006 | Q4 | 1,191.40 | \$ 127.27 | \$ - | 1,318.66 | 4.59% | |
| 2009 Q2 1.00% 6.61% Feb-07 2007 Q1 1,365.14 \$ 27.22 \$ - 1,383.36 4.59% 2009 Q3 0.55% 5.67% Mar-07 2007 Q1 1,383.36 \$ 27.22 \$ - 1,410.58 4.59% 2010 Q1 0.55% 4.66% Apr-07 2007 Q2 1,437.80 \$ 160.38 \$ - 1,437.80 4.59% 2010 Q1 0.55% 4.34% Jun-07 2007 Q2 1,437.80 \$ 160.38 \$ - 1,834.34 4.59% 2010 Q3 0.89% 4.66% Jul-07 2007 Q2 1,437.80 \$ 390.66 \$ - 2,224.99 4.59% 2010 Q4 1.20% 4.01% Aug-07 2007 Q3 2,224.99 \$ 131.34 \$ - 2,356.33 4.59% 2011 Q2 1.47% 4.29% Oct-07 2007 Q3 2,356.33 \$ 646.50 - 3,058.85 5.14% 2011 Q2 1.47% 4.29% Nov-07 2007 Q4 3,058.45 \$ 130.86 - 3,189.71 5.14% | 2008 Q4 | 3.35% | 5.43% | Dec-06 | 2006 | Q4 | 1,318.66 | \$ 11.93 | \$ 1.68 | 1,332.27 | 4.59% | |
| 2009 Q3 0.55% 5.67% Mar-07 2007 0.1 1,383.36 \$ 27.22 \$ - 1,410.58 4.59% 2009 Q4 0.55% 4.66% Apr-07 2007 0.2 1,410.58 \$ 27.22 \$ - 1,437.80 4.59% 2010 Q1 0.55% 4.34% May-07 2007 0.2 1,437.80 \$ - 1,598.17 4.59% 2010 Q2 0.55% 4.34% Jun-07 2007 0.2 1,598.17 \$ - 1,834.34 4.59% 2010 Q4 1.20% 4.01% Aug-07 2007 0.3 2,224.99 \$ 131.34 \$ - 2,356.33 4.59% 2011 Q1 1.47% 4.29% Sep-07 2007 0.3 2,356.33 \$ 646.50 \$ - 3,058.85 5.14% 2011 Q1 1.47% 4.29% Oct-07 2007 0.4 3,058.45 \$ - 3,058.85 5.14% 2011 Q3 1.47% 3.92% Dec-07 2007 0.4 3,058.45 \$ <td>2009 Q1</td> <td>2.45%</td> <td>6.61%</td> <td>Jan-07</td> <td>2007</td> <td>Q1</td> <td>1,332.27</td> <td>\$ 23.86</td> <td>\$-</td> <td>1,356.14</td> <td>4.59%</td> <td></td> | 2009 Q1 | 2.45% | 6.61% | Jan-07 | 2007 | Q1 | 1,332.27 | \$ 23.86 | \$- | 1,356.14 | 4.59% | |
| 2009 Q4 0.55% 4.66% Apr-07 2007 Q2 1,410.58 \$ 27.22 \$ - 1,437.80 4.59% 2010 Q1 0.55% 4.34% Jun-07 2007 Q2 1,437.80 \$ 160.38 \$ - 1,437.80 4.59% 2010 Q2 0.55% 4.34% Jun-07 2007 Q2 1,598.17 \$ 236.17 \$ - 1,834.34 4.59% 2010 Q3 0.89% 4.66% Jul-07 2007 Q3 1,834.34 \$ 390.66 \$ - 2,224.99 4.59% 2011 Q4 1.20% 4.01% Aug-07 2007 Q3 2,224.99 \$ 131.34 \$ - 2,366.33 4.59% 2011 Q1 1.47% 4.29% Sep-07 2007 Q3 2,356.33 \$ 666.50 \$ - 3,002.84 4.59% 2011 Q2 1.47% 4.29% Nov-07 2007 Q4 3,058.85 \$ 130.86 \$ - 3,058.85 5.14% 2011 Q3 1.47% 3.92% Dec-07 2007 Q4 3,189.71 \$ 5.42% - 4,294.35 5.14% | 2009 Q2 | 1.00% | 6.61% | Feb-07 | 2007 | Q1 | 1,356.14 | \$ 27.22 | \$- | 1,383.36 | 4.59% | |
| 2010 Q1 0.55% 4.34% May-07 2007 Q2 1,437.80 \$ 160.38 \$ - 1,598.17 4.59% 2010 Q2 0.55% 4.34% Jun-07 2007 Q2 1,598.17 \$ 236.17 \$ - 1,834.34 4.59% 2010 Q3 0.89% 4.66% Jul-07 2007 Q3 1,834.34 \$ 390.66 \$ - 2,224.99 4,59% 2010 Q4 1.20% 4.01% Aug-07 2007 Q3 2,224.99 \$ 131.34 \$ - 2,356.33 4,59% 2011 Q1 1.47% 4.29% Sep-07 2007 Q3 2,356.33 \$ 646.50 \$ - 3,002.84 4,59% 2011 Q2 1.47% 4.29% Oct-07 2007 Q4 3,058.85 \$ 130.86 \$ - 3,058.85 5,14% 2011 Q3 1.47% 3.92% Dec-07 2007 Q4 3,088.47 \$ 5,14% 3,898.47 \$ 5,14% 2012 Q2 1.47% 3.92% Dec-07 2007 Q4 3,898.47 \$ 99.18 \$ - 3,997.66 \$ 14% < | 2009 Q3 | 0.55% | 5.67% | Mar-07 | 2007 | Q1 | 1,383.36 | \$ 27.22 | \$- | 1,410.58 | 4.59% | |
| 2010 Q2 0.55% 4.34% Jun-07 2007 Q2 1,598.17 \$ 236.17 \$ - 1,834.34 4.59% 2010 Q3 0.89% 4.66% Jul-07 2007 Q3 1,834.34 \$ 390.66 \$ - 2,224.99 4.59% 2010 Q4 1.20% 4.01% Aug-07 2007 Q3 2,224.99 \$ 131.34 \$ - 2,356.33 4.59% 2011 Q1 1.47% 4.29% Sep-07 2007 Q3 2,356.33 \$ 646.50 \$ - 3,002.84 4.59% 2011 Q2 1.47% 4.29% Oct-07 2007 Q4 3,002.84 \$ 56.01 \$ - 3,058.85 5.14% 2011 Q4 1.47% 3.92% Dec-07 2007 Q4 3,058.85 \$ 130.86 \$ - 3,189.71 5.14% 2012 Q1 1.47% 3.92% Jan-08 2008 Q1 3,997.66 \$ 296.70 \$ - 4,294.35 5.14% 2012 Q2 1.47% 3.51% Mar-08 2008 Q1 4,294.35 \$ 231.72 \$ - 4,526.07 \$ 14% <td>2009 Q4</td> <td>0.55%</td> <td>4.66%</td> <td>Apr-07</td> <td>2007</td> <td>Q2</td> <td>1,410.58</td> <td>\$ 27.22</td> <td>\$-</td> <td>1,437.80</td> <td>4.59%</td> <td></td> | 2009 Q4 | 0.55% | 4.66% | Apr-07 | 2007 | Q2 | 1,410.58 | \$ 27.22 | \$- | 1,437.80 | 4.59% | |
| 2010 Q30.89%4.66%Jul-072.07Q31,834.34\$ 390.66\$-2,224.994.59%2010 Q41.20%4.01%Aug-072.007Q32,224.99\$ 131.34\$-2,356.334.59%2011 Q11.47%4.29%Sep-072.007Q32,356.33\$ 646.50\$-3,002.844.59%2011 Q21.47%4.29%Oct-072007Q43,002.84\$ 56.01\$-3,058.855.14%2011 Q31.47%4.29%Nov-072007Q43,058.85\$ 130.86\$-3,058.855.14%2012 Q11.47%3.92%Dec-072007Q43,058.85\$ 130.86\$-3,189.715.14%2012 Q21.47%3.92%Jan-082008Q13,898.47\$ 14%3,997.665.14%2012 Q21.47%3.51%Feb-082008Q13,997.66\$ 296.70\$-4,224.355.14%2012 Q31.47%3.51%Mar-082008Q24,526.07\$-4,526.075.14%2013 Q10.00%0.00%May-082008Q24,623.71\$ 285.23\$-4,623.714,08%2013 Q20.00%0.00%Jun-082008Q24,908.94\$ 124.74\$-5,033.684,08%2013 Q40.00%0.00%Jun-082008Q35,033.68\$ 74.92\$ | 2010 Q1 | 0.55% | 4.34% | May-07 | 2007 | Q2 | 1,437.80 | \$ 160.38 | \$ - | 1,598.17 | 4.59% | |
| 2010 Q4 1.20% 4.01% Aug-07 207 Q3 2,224.99 \$ 131.34 \$ - 2,356.33 4.59% 2011 Q1 1.47% 4.29% Sep-07 2007 Q3 2,356.33 5.646.50 \$ - 3,002.84 4.59% 2011 Q2 1.47% 4.29% Oct-07 2007 Q4 3,002.84 5.6.01 \$ - 3,058.85 5.14% 2011 Q3 1.47% 4.29% Nov-07 2007 Q4 3,058.85 \$ 130.86 \$ - 3,058.85 5.14% 2011 Q4 1.47% 3.92% Dec-07 2007 Q4 3,058.85 \$ 130.86 \$ - 3,189.71 5.14% 2012 Q1 1.47% 3.92% Jan-08 2008 Q1 3,898.47 \$ 99.18 \$ - 3,997.66 5.14% 2012 Q2 1.47% 3.51% Feb-08 2008 Q1 4,294.35 \$ 231.72 \$ - 4,294.35 5.14% 2012 Q4 1.47% 3.51% Apr-08 2008 Q2 4,623.71 \$ 268.23 - 4,526.07 5 4,526.07 <td>2010 Q2</td> <td>0.55%</td> <td>4.34%</td> <td>Jun-07</td> <td>2007</td> <td>Q2</td> <td>1,598.17</td> <td>\$ 236.17</td> <td>\$-</td> <td>1,834.34</td> <td>4.59%</td> <td></td> | 2010 Q2 | 0.55% | 4.34% | Jun-07 | 2007 | Q2 | 1,598.17 | \$ 236.17 | \$- | 1,834.34 | 4.59% | |
| 2011 Q11.47%4.29%Sep-072007Q32.356.33\$ 646.50\$-3.002.844.59%2011 Q21.47%4.29%Oct-072007Q43.002.84\$ 56.01\$-3.058.855.14%2011 Q31.47%4.29%Nov-072007Q43.058.85\$ 130.86\$-3.058.855.14%2011 Q41.47%3.92%Dec-072007Q43.088.47\$ 692.33\$ 16.433.898.475.14%2012 Q11.47%3.92%Jan-082008Q13.898.47\$ 99.18\$-3.997.665.14%2012 Q21.47%3.51%Feb-082008Q13.997.66\$ 296.70\$-4.526.075.14%2012 Q31.47%3.51%Mar-082008Q14.294.35\$ 231.72\$-4.526.075.14%2013 Q10.00%0.00%May-082008Q24.623.71\$ 285.23\$-4.908.944.08%2013 Q20.00%0.00%Jun-082008Q24.908.94\$ 124.74\$-5.033.684.08%2013 Q40.00%0.00%Jul-082008Q35.033.68\$ 170.30\$-5.352.563.35%2013 Q40.00%0.00%Aug-082008Q35.203.98\$ 148.58\$-5.352.563.35%2013 Q40.00%0.00%Aug-082008Q35.352. | 2010 Q3 | 0.89% | 4.66% | Jul-07 | 2007 | Q3 | 1,834.34 | \$ 390.66 | \$- | 2,224.99 | 4.59% | |
| 2011 Q21.47%4.29%Oct-072007Q43,002.84\$ 56.01\$-3,058.855.14%2011 Q31.47%4.29%Nov-072007Q43,058.85\$ 130.86\$-3,189.715.14%2011 Q41.47%3.92%Dec-072007Q43,189.71\$ 692.33\$ 16.433,898.475.14%2012 Q11.47%3.92%Jan-082008Q13,898.47\$ 99.18\$-3,997.665.14%2012 Q21.47%3.51%Feb-082008Q13,997.66\$ 296.70\$-4,294.355.14%2012 Q31.47%3.51%Mar-082008Q14,294.35\$ 231.72\$-4,526.075.14%2012 Q41.47%3.51%Apr-082008Q24,526.07\$ 97.64\$-4,623.714.08%2013 Q10.00%0.00%Jun-082008Q24,623.71\$ 285.23\$-4,908.944.08%2013 Q20.00%0.00%Jun-082008Q35,033.68\$ 170.30\$-5,033.684.08%2013 Q40.00%0.00%Jul-082008Q35,033.68\$ 170.30\$-5,352.563,35%2013 Q40.00%0.00%Aug-082008Q35,033.68\$ 148.58\$-5,352.563,35%2013 Q40.00%0.00%Aug-082008Q35,352.5 | 2010 Q4 | 1.20% | 4.01% | Aug-07 | 2007 | Q3 | 2,224.99 | \$ 131.34 | \$ - | 2,356.33 | 4.59% | |
| 2011 Q31.47%4.29%Nov-072007Q43,058.85\$ 130.86\$ -3,189.715.14%2011 Q41.47%3.92%Dec-072007Q43,189.71\$ 692.33\$ 16.433,898.475.14%2012 Q11.47%3.92%Jan-082008Q13,898.47\$ 99.18\$ -3,997.665.14%2012 Q21.47%3.51%Feb-082008Q13,997.66\$ 296.70\$ -4,294.355.14%2012 Q31.47%3.51%Mar-082008Q14,294.35\$ 231.72\$ -4,526.075.14%2012 Q41.47%3.51%Apr-082008Q24,623.71\$ 97.64\$ -4,623.714.08%2013 Q10.00%0.00%May-082008Q24,623.71\$ 285.23\$ -4,908.944.08%2013 Q20.00%0.00%Jun-082008Q35,033.68\$ 170.30\$ -5,033.684.08%2013 Q30.00%0.00%Jul-082008Q35,033.68\$ 170.30\$ -5,203.983.35%2013 Q40.00%0.00%Aug-082008Q35,525.66\$ 74.92\$ -5,427.483.35%2013 Q40.00%0.00%Aug-082008Q35,532.56\$ 74.92\$ -5,427.483.35% | 2011 Q1 | 1.47% | 4.29% | Sep-07 | 2007 | Q3 | 2,356.33 | \$ 646.50 | \$ - | 3,002.84 | 4.59% | |
| 2011 Q41.47%3.92%Dec-072007Q43,189.71\$692.33\$16.433,898.475.14%2012 Q11.47%3.92%Jan-082008Q13,898.47\$99.18\$-3,997.665.14%2012 Q21.47%3.51%Feb-082008Q13,997.66\$2010\$-4,294.355.14%2012 Q31.47%3.51%Mar-082008Q14,294.35\$231.72\$-4,526.075.14%2012 Q41.47%3.51%Apr-082008Q24,526.07\$97.64\$-4,623.714.08%2013 Q10.00%0.00%May-082008Q24,623.71\$285.23\$-4,908.944.08%2013 Q20.00%0.00%Jun-082008Q24,908.94\$124.74\$-5,033.684.08%2013 Q30.00%0.00%Jul-082008Q35,033.68\$170.30\$-5,203.983,35%2013 Q40.00%0.00%Aug-082008Q35,352.56\$74.92\$-5,427.483,35%2013 Q40.00%0.00%Aug-082008Q35,352.56\$74.92\$-5,427.483,35%2013 Q40.00%0.00%Aug-082008Q35,352.56\$74.92\$-5,427.483,35% <t< td=""><td>2011 Q2</td><td>1.47%</td><td>4.29%</td><td>Oct-07</td><td>2007</td><td>Q4</td><td>3,002.84</td><td>\$ 56.01</td><td>\$ -</td><td>3,058.85</td><td>5.14%</td><td></td></t<> | 2011 Q2 | 1.47% | 4.29% | Oct-07 | 2007 | Q4 | 3,002.84 | \$ 56.01 | \$ - | 3,058.85 | 5.14% | |
| 2012 Q11.47%3.92%Jan-082008Q13,898.47\$ 99.18\$ -3,997.665.14%2012 Q21.47%3.51%Feb-082008Q13,997.66\$ 296.70\$ -4,294.355.14%2012 Q31.47%3.51%Mar-082008Q14,294.35\$ 231.72\$ -4,526.075.14%2012 Q41.47%3.51%Apr-082008Q24,526.07\$ 97.64\$ -4,623.714.08%2013 Q10.00%0.00%May-082008Q24,623.71\$ 285.23\$ -4,908.944.08%2013 Q20.00%0.00%Jun-082008Q24,908.94\$ 124.74\$ -5,033.684.08%2013 Q30.00%0.00%Jul-082008Q35,033.68\$ 170.30\$ -5,203.983.35%2013 Q40.00%0.00%Aug-082008Q35,352.56\$ 74.92\$ -5,427.483.35% | 2011 Q3 | 1.47% | 4.29% | Nov-07 | 2007 | Q4 | 3,058.85 | \$ 130.86 | \$- | 3,189.71 | 5.14% | |
| 2012 Q2 1.47% 3.51% Feb-08 2008 1 3,997.66 \$ 296.70 \$ - 4,294.35 5.14% 2012 Q3 1.47% 3.51% Mar-08 2008 Q1 4,294.35 \$ 231.72 \$ - 4,526.07 5.14% 2012 Q4 1.47% 3.51% Apr-08 2008 Q2 4,526.07 \$ - 4,526.07 5.14% 2013 Q1 0.00% 0.00% May-08 2008 Q2 4,623.71 \$ - 4,623.71 4,08% 2013 Q2 0.00% 0.00% Jun-08 2008 Q2 4,908.94 4,08% - 5,033.68 4,08% 2013 Q3 0.00% 0.00% Jul-08 2008 Q3 5,033.68 \$170.30 - 5,203.98 3.35% 2013 Q4 0.00% 0.00% Aug-08 208 Q3 5,352.56 \$74.92 - 5,352.56 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 5,352.56 \$74.92 - 5,427.48 3.35% | 2011 Q4 | 1.47% | 3.92% | Dec-07 | 2007 | Q4 | 3,189.71 | \$ 692.33 | \$ 16.43 | 3,898.47 | 5.14% | |
| 2012 Q31.47%3.51%Mar-082008Q14,294.35\$ 231.72\$ -4,526.075.14%2012 Q41.47%3.51%Apr-082008Q24,526.07\$ 97.64\$ -4,623.714.08%2013 Q10.00%0.00%May-082008Q24,623.71\$ 285.23\$ -4,908.944.08%2013 Q20.00%0.00%Jun-082008Q24,908.94\$ 124.74\$ -5,033.684.08%2013 Q30.00%0.00%Jul-082008Q35,033.68\$ 170.30\$ -5,203.983.35%2013 Q40.00%0.00%Aug-082008Q35,352.56\$ 148.58\$ -5,352.563.35%2013 Q40.00%0.00%Aug-082008Q35,352.56\$ 74.92\$ -5,427.483.35% | 2012 Q1 | 1.47% | 3.92% | Jan-08 | 2008 | Q1 | 3,898.47 | \$ 99.18 | \$ - | 3,997.66 | 5.14% | |
| 2012 Q4 1.47% 3.51% Apr-08 208 Q2 4,526.07 \$ 97.64 \$ - 4,623.71 4.08% 2013 Q1 0.00% 0.00% May-08 2008 Q2 4,623.71 \$ 285.23 \$ - 4,908.94 4.08% 2013 Q2 0.00% 0.00% Jun-08 2008 Q2 4,908.94 \$ 124.74 \$ - 5,033.68 4.08% 2013 Q3 0.00% 0.00% Jul-08 2008 Q3 5,033.68 \$ 170.30 \$ - 5,203.98 3.35% 2013 Q4 0.00% 0.00% Jul-08 2008 Q3 5,203.98 \$ 148.58 \$ - 5,352.56 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 5,203.98 \$ 148.58 \$ - 5,352.56 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 5,352.56 \$ 74.92 \$ - 5,427.48 3.35% | 2012 Q2 | 1.47% | 3.51% | Feb-08 | 2008 | Q1 | 3,997.66 | \$ 296.70 | \$- | 4,294.35 | 5.14% | |
| 2013 Q1 0.00% 0.00% May-08 2008 Q2 4,623.71 \$ 285.23 \$ - 4,908.94 4.08% 2013 Q2 0.00% 0.00% Jun-08 2008 Q2 4,908.94 \$ 124.74 \$ - 5,033.68 4.08% 2013 Q3 0.00% 0.00% Jul-08 2008 Q3 5,033.68 \$ 170.30 \$ - 5,203.98 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 5,203.98 \$ 148.58 \$ - 5,352.56 3.35% 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 5,352.56 \$ 74.92 \$ - 5,427.48 3.35% | 2012 Q3 | 1.47% | 3.51% | Mar-08 | 2008 | Q1 | 4,294.35 | \$ 231.72 | \$ - | 4,526.07 | 5.14% | |
| 2013 Q2 0.00% 0.00% Jun-08 2008 Q2 4,908.94 \$ 124.74 \$ - 5,033.68 4.08% 2013 Q3 0.00% 0.00% Jul-08 2008 Q3 5,033.68 \$ 170.30 \$ - 5,203.98 3.35% 2013 Q4 0.00% 0.00% 0.00% Aug-08 2008 Q3 5,203.98 \$ 148.58 \$ - 5,352.56 3.35% 2013 Q4 0.00% 0.00% 0.00% Q3 5,352.56 \$ 74.92 \$ - 5,427.48 3.35% | 2012 Q4 | 1.47% | 3.51% | Apr-08 | 2008 | Q2 | 4,526.07 | \$ 97.64 | \$ - | 4,623.71 | 4.08% | |
| 2013 Q3 0.00% 0.00% Jul-08 2008 Q3 5,033.68 \$170.30 \$ - 5,203.98 3.35% 2013 Q4 0.00% 0.00% 0.00% 2008 Q3 5,203.98 \$148.58 \$ - 5,352.56 3.35% Sep-08 2008 Q3 5,352.56 \$74.92 \$ - 5,427.48 3.35% | 2013 Q1 | 0.00% | 0.00% | May-08 | 2008 | Q2 | 4,623.71 | \$ 285.23 | \$ - | 4,908.94 | 4.08% | |
| 2013 Q4 0.00% 0.00% Aug-08 2008 Q3 5,203.98 \$ 148.58 \$ - 5,352.56 3.35% Sep-08 2008 Q3 5,352.56 \$ 74.92 \$ - 5,427.48 3.35% | 2013 Q2 | 0.00% | 0.00% | Jun-08 | 2008 | Q2 | 4,908.94 | \$ 124.74 | \$ - | 5,033.68 | 4.08% | |
| Sep-08 2008 Q3 5,352.56 \$ 74.92 \$ - 5,427.48 3.35% | | | | Jul-08 | 2008 | Q3 | 5,033.68 | | | 5,203.98 | | |
| | 2013 Q4 | 0.00% | 0.00% | Aug-08 | 2008 | Q3 | 5,203.98 | | | 5,352.56 | 3.35% | |
| Oct-08 2008 04 5.427.48 \$ 283.92 \$ - 5.711.40 3.35% | | | | Sep-08 | 2008 | Q3 | 5,352.56 | \$ 74.92 | \$ - | 5,427.48 | 3.35% | |
| | | | | Oct-08 | 2008 | Q4 | 5,427.48 | \$ 283.92 | \$- | 5,711.40 | 3.35% | |

Smart Meter Model

| nterest (on opening balance) | Cumulative Interest |
|------------------------------------|------------------------|
| - | - |
| - | - |
| - | - |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.54 | 0.54 |
| 0.60 | 1.15 |
| 0.60 | 1.75 |
| 0.60 | 2.35 |
| 0.60 | 2.95 |
| 4.56 | 7.51 |
| 5.04 | 12.56 |
| 5.10 5.19 | 17.65 22.84 |
| 5.19 | 22.84 28.13 |
| 5.29 | 33.53 |
| 5.50 | 39.02 |
| 6.11 | 45.14 |
| 7.02 | 52.15 |
| 8.51 | 60.66 |
| 9.01 | 69.68 |
| 12.86 | 82.54 |
| 13.10 | 95.64 |
| 13.66 | 109.30 |
| 16.70 | 126.00 |
| 17.12 | 143.13 |
| 18.39 | 161.52 |
| 15.39 | 176.91 |
| 15.72 | 192.63 |
| 16.69 | 209.32 |
| 14.05 | 223.37 |
| 14.53 | 237.90 |
| 14.94 | 252.84 |
| 15.15 | 267.99 |

| | | | | • | | • | | | a a = a/ |
|--------|------|----|------------|----|----------|----|----------|------------|----------|
| Nov-08 | 2008 | Q4 | 5,711.40 | \$ | 184.39 | \$ | - | 5,895.79 | 3.35% |
| Dec-08 | 2008 | Q4 | 5,895.79 | \$ | 65.40 | \$ | 72.27 | 6,033.46 | 3.35% |
| Jan-09 | 2009 | Q1 | 6,033.46 | \$ | 199.19 | \$ | 90.09 | 6,322.74 | 2.45% |
| Feb-09 | 2009 | Q1 | 6,322.74 | \$ | 93.08 | \$ | 90.09 | 6,505.91 | 2.45% |
| Mar-09 | 2009 | Q1 | 6,505.91 | \$ | 195.99 | \$ | 90.09 | 6,791.99 | 2.45% |
| Apr-09 | 2009 | Q2 | 6,791.99 | \$ | 45.89 | \$ | 90.09 | 6,927.98 | 1.00% |
| May-09 | 2009 | Q2 | 6,927.98 | \$ | 302.20 | \$ | 90.09 | 7,320.27 | 1.00% |
| Jun-09 | 2009 | Q2 | 7,320.27 | \$ | 41.16 | \$ | 90.09 | 7,451.52 | 1.00% |
| Jul-09 | 2009 | Q3 | 7,451.52 | \$ | 40.43 | \$ | 90.09 | 7,582.04 | 0.55% |
| Aug-09 | 2009 | Q3 | 7,582.04 | \$ | 36.59 | \$ | 90.09 | 7,708.72 | 0.55% |
| Sep-09 | 2009 | Q3 | 7,708.72 | \$ | 48.25 | \$ | 90.09 | 7,847.06 | 0.55% |
| Oct-09 | 2009 | Q4 | 7,847.06 | \$ | 422.98 | \$ | 90.09 | 8,360.14 | 0.55% |
| Nov-09 | 2009 | Q4 | 8,360.14 | \$ | 98.60 | \$ | 90.09 | 8,548.83 | 0.55% |
| Dec-09 | 2009 | Q4 | 8,548.83 | \$ | 176.17 | \$ | 90.09 | 8,815.09 | 0.55% |
| Jan-10 | 2010 | Q1 | 8,815.09 | \$ | 3.74 | \$ | 1,963.37 | 10,782.20 | 0.55% |
| Feb-10 | 2010 | Q1 | 10,782.20 | \$ | 104.99 | \$ | 1,963.37 | 12,850.57 | 0.55% |
| Mar-10 | 2010 | Q1 | 12,850.57 | \$ | 594.77 | \$ | 1,963.37 | 15,408.71 | 0.55% |
| Apr-10 | 2010 | Q2 | 15,408.71 | \$ | 4,150.92 | \$ | 1,963.37 | 21,523.00 | 0.55% |
| May-10 | 2010 | Q2 | 21,523.00 | \$ | 283.61 | \$ | 1,963.37 | 23,769.98 | 0.55% |
| Jun-10 | 2010 | Q2 | 23,769.98 | \$ | 1,932.07 | \$ | 1,963.37 | 27,665.41 | 0.55% |
| Jul-10 | 2010 | Q3 | 27,665.41 | \$ | 807.92 | \$ | 1,963.37 | 30,436.70 | 0.89% |
| Aug-10 | 2010 | Q3 | 30,436.70 | \$ | 363.26 | \$ | 1,963.37 | 32,763.33 | 0.89% |
| Sep-10 | 2010 | Q3 | 32,763.33 | \$ | 481.70 | \$ | 1,963.37 | 35,208.40 | 0.89% |
| Oct-10 | 2010 | Q4 | 35,208.40 | \$ | 576.36 | \$ | 1,963.37 | 37,748.13 | 1.20% |
| Nov-10 | 2010 | Q4 | 37,748.13 | \$ | 593.89 | \$ | 1,963.37 | 40,305.39 | 1.20% |
| Dec-10 | 2010 | Q4 | 40,305.39 | \$ | 4,228.52 | \$ | 1,963.37 | 46,497.28 | 1.20% |
| Jan-11 | 2011 | Q1 | 46,497.28 | \$ | 1,765.44 | \$ | 5,722.99 | 53,985.70 | 1.47% |
| Feb-11 | 2011 | Q1 | 53,985.70 | \$ | 922.56 | \$ | 5,722.99 | 60,631.26 | 1.47% |
| Mar-11 | 2011 | Q1 | 60,631.26 | \$ | 1,377.96 | \$ | 5,722.99 | 67,732.21 | 1.47% |
| Apr-11 | 2011 | Q2 | 67,732.21 | \$ | 1,193.41 | \$ | 5,722.99 | 74,648.61 | 1.47% |
| May-11 | 2011 | Q2 | 74,648.61 | \$ | 2,403.60 | \$ | 5,722.99 | 82,775.20 | 1.47% |
| Jun-11 | 2011 | Q2 | 82,775.20 | \$ | 1,798.57 | \$ | 5,722.99 | 90,296.76 | 1.47% |
| Jul-11 | 2011 | Q3 | 90,296.76 | \$ | 1,768.56 | \$ | 5,722.99 | 97,788.31 | 1.47% |
| Aug-11 | 2011 | Q3 | 97,788.31 | \$ | 1,623.60 | \$ | 5,722.99 | 105,134.91 | 1.47% |
| Sep-11 | 2011 | Q3 | 105,134.91 | \$ | 1,357.76 | \$ | 5,722.99 | 112,215.66 | 1.47% |
| Oct-11 | 2011 | Q4 | 112,215.66 | \$ | 1,920.92 | \$ | 5,722.99 | 119,859.57 | 1.47% |
| Nov-11 | 2011 | Q4 | 119,859.57 | \$ | 2,870.01 | \$ | 5,722.99 | 128,452.58 | 1.47% |
| Dec-11 | 2011 | Q4 | 128,452.58 | \$ | 5,115.15 | \$ | 5,722.99 | 139,290.71 | 1.47% |
| Jan-12 | 2012 | Q1 | 139,290.71 | \$ | 3,317.11 | \$ | 8,340.26 | 150,948.08 | 1.47% |
| Feb-12 | 2012 | Q1 | 150,948.08 | \$ | 3,237.62 | \$ | 8,340.26 | 162,525.96 | 1.47% |
| Mar-12 | 2012 | Q1 | 162,525.96 | \$ | 3,023.81 | \$ | 8,340.26 | 173,890.02 | 1.47% |
| Apr-12 | 2012 | Q2 | 173,890.02 | \$ | 2,691.56 | \$ | 8,340.26 | 184,921.83 | 1.47% |
| May-12 | 2012 | Q2 | 184,921.83 | \$ | 2,084.25 | \$ | 8,340.26 | 195,346.34 | 1.47% |
| Jun-12 | 2012 | Q2 | 195,346.34 | \$ | 1,173.45 | \$ | 8,340.26 | 204,860.04 | 1.47% |
| Jul-12 | 2012 | Q3 | 204,860.04 | \$ | 1,173.45 | \$ | 8,340.26 | 214,373.74 | 1.47% |
| Aug-12 | 2012 | Q3 | 214,373.74 | \$ | 1,173.45 | \$ | 8,340.26 | 223,887.44 | 1.47% |
| Sep-12 | 2012 | Q3 | 223,887.44 | \$ | 1,173.45 | \$ | 8,340.26 | 233,401.14 | 1.47% |
| Oct-12 | 2012 | Q4 | 233,401.14 | \$ | - | \$ | 8,340.26 | 241,741.40 | 1.47% |
| Nov-12 | 2012 | Q4 | 241,741.40 | \$ | - | \$ | 8,340.26 | 250,081.65 | 0.00% |
| Dec-12 | 2012 | Q4 | 250,081.65 | \$ | - | \$ | 8,340.26 | 258,421.91 | 0.00% |
| Jan-13 | 2013 | Q1 | 258,421.91 | | | \$ | 8,990.78 | 267,412.69 | 0.00% |
| Feb-13 | 2013 | Q1 | 267,412.69 | | | \$ | 8,990.78 | 276,403.48 | 0.00% |
| Mar-13 | 2013 | Q1 | 276,403.48 | | | \$ | 8,990.78 | 285,394.26 | 0.00% |
| Apr-13 | 2013 | Q2 | 285,394.26 | | | \$ | 8,990.78 | 294,385.05 | 0.00% |
| May-13 | 2013 | Q2 | 294,385.05 | | | \$ | 8,990.78 | 303,375.83 | 0.00% |
| Jun-13 | 2013 | Q2 | 303,375.83 | | | \$ | 8,990.78 | 312,366.61 | 0.00% |
| Jul-13 | 2013 | Q3 | 312,366.61 | | | \$ | 8,990.78 | 321,357.40 | 0.00% |
| Aug-13 | 2013 | Q3 | 321,357.40 | | | \$ | 8,990.78 | 330,348.18 | 0.00% |
| Sep-13 | 2013 | Q3 | 330,348.18 | | | \$ | 8,990.78 | 339,338.97 | 0.00% |
| Oct-13 | 2013 | | 339,338.97 | | | \$ | 8,990.78 | 348,329.75 | 0.00% |

| 15.94 | 283.94 |
|--------------------------------------|--|
| 16.46 | 300.40 |
| 12.32 | 312.72 |
| 12.91 | 325.63 |
| 13.28 | 338.91 |
| 5.66 | 344.57 |
| 5.77 | 350.34 |
| 6.10 | 356.44 |
| 3.42 | 359.86 |
| 3.48 | 363.33 |
| 3.53 | 366.87 |
| 3.60 | 370.46 |
| 3.83 | 374.29 |
| 3.92 | 378.21 |
| 4.04 | 382.25 |
| 4.94 | 387.19 |
| 5.89 7.06 | 393.08 400.15 410.01 |
| 9.86 10.89 20.52 | 420.91 441.42 |
| 22.57 | 464.00 |
| 24.30 | 488.30 |
| 35.21 | 523.51 |
| 37.75 | 561.25 |
| 40.31 | 601.56 |
| 56.96 | 658.52 |
| 66.13 | 724.65 |
| 74.27 | 798.92 |
| 82.97 | 881.90 |
| 91.44 101.40 110.61 | 973.34 1,074.74 1,185.35 1,205.14 |
| 119.79 | 1,305.14 |
| 128.79 | 1,433.93 |
| 137.46 | 1,571.40 |
| 146.83 | 1,718.23 |
| 140.83 157.35 170.63 184.91 | 1,875.58 2,046.21 2,231.12 |
| 199.09 213.02 226.53 | 2,231.12 2,430.22 2,643.23 2,869.76 |
| 239.30 | 3,109.06 |
| 250.95 | 3,360.02 |
| 262.61 | 3,622.62 |
| 274.26 285.92 | 3,896.89 4,182.80 4,182.80 |
| - | 4,182.80 4,182.80 4,182.80 4,182.80 |
| - | 4,182.80 4,182.80 4,182.80 4,182.80 |
| - - | 4,182.80 4,182.80 4,182.80 4,182.80 |
| - | 4,182.80 4,182.80 4,182.80 |

| Nov-13 Dec-13 | 2013 2013 | Q4 Q4 | 348,329.75 357,320.53 | | \$ \$ | 8,990.78 8,990.78 | 357,320.53 366,311.32 | 0.00% FALSE |
|------------------|--------------|----------|--------------------------|-----------------|----------|----------------------|--------------------------|----------------|
| | | | | \$ 64,930.96 | \$ | 193,490.95 | \$ 258,421.91 | |

4,182.80 4,182.80

-

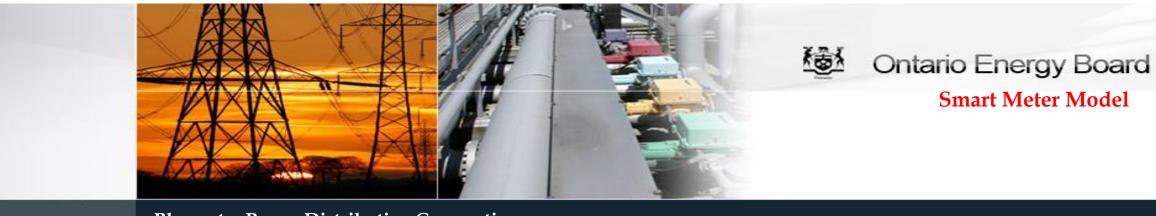
-



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

| Year | OM& <i>A</i> (from | A Sheet 5) | Expe | rtization nse 1 Sheet 5) | and | nulative OM&A Amortization ense | ulative OM&A Amortization | Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B) | OM&A | tization |
|-----------|-----------------------|---------------|------|--------------------------------|-----|---------------------------------------|----------------------------------|---|------|-----------|
| 2006 | \$ | 1,330.49 | \$ | 5.40 | \$ | 1,335.89 | \$ 667.95 | 4.37% | \$ | 29.16 |
| 2007 | \$ | 2,549.76 | \$ | 52.12 | \$ | 3,937.78 | \$ 2,636.84 | 4.73% | \$ | 124.66 |
| 2008 | \$ | 2,062.72 | \$ | 229.19 | \$ | 6,229.69 | \$ 5,083.74 | 3.98% | \$ | 202.33 |
| 2009 | \$ | 1,700.55 | \$ | 3,429.23 | \$ | 11,359.46 | \$ 8,794.58 | 1.14% | \$ | 100.04 |
| 2010 | \$ | 14,121.74 | \$ | 74,727.16 | \$ | 100,208.37 | \$ 55,783.92 | 0.80% | \$ | 444.88 |
| 2011 | \$ | 24,117.49 | \$ | 217,819.45 | \$ | 342,145.31 | \$ 221,176.84 | 1.47% | \$ | 3,251.30 |
| 2012 | \$ | 19,048.33 | \$ | 317,436.94 | \$ | 678,630.57 | \$ 510,387.94 | 1.23% | \$ | 6,252.25 |
| 2013 | \$ | - | \$ | 342,195.78 | \$ | 1,020,826.35 | \$ 849,728.46 | 0.00% | \$ | - |
| Cumulati | ve Interest | to 2011 | | | | | | | \$ | 4,152.36 |
| Cumulativ | ve Interest | to 2012 | | | | | | | \$ | 10,404.61 |
| Cumulati | ve Interest | to 2013 | | | | | | | \$ | 10,404.61 |
| | | | | | | | | | | |

Appendix 4 Response to VECC 7a GS<50 Model



Bluewater Power Distribution Corporation

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) | |
|---|--|------------------------------|
| X | Smart Meter Disposition Rider (SMDR) | The SMDR is calculated base |
| X | Smart Meter Incremental Revenue Requirement Rate Rider (SMIRR) | The SMIRR is calculated base |

sed on costs to December 31, 2011

Χ Smart Meter Incremental Revenue Requirement Rate Rider (SMIRR)

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

| | : | 2006 | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | | 2013 | | Total | |
|--|----|----------|------|-----------|------|-----------|------|-----------|------|------------|------|------------|------|------------|------------------|----|------------|--|
| Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5) | | 1,358.40 | \$ | 2,654.71 | \$ | 2,381.00 | \$ | 5,828.51 | \$ | 113,342.08 | \$ | 321,010.79 | \$ | 461,785.99 | \$ 485,955.03 | \$ | 908,361.48 | |
| Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below) | | 12.56 | \$ | 96.75 | \$ | 191.09 | \$ | 77.81 | \$ | 223.35 | \$ | 1,274.02 | \$ | 2,307.22 | | \$ | 4,182.80 | |
| X Sheet 8A (Interest calculated on monthly balances) | \$ | 12.56 | \$ | 96.75 | \$ | 191.09 | \$ | 77.81 | \$ | 223.35 | \$ | 1,274.02 | \$ | 2,307.22 | \$ - | \$ | 4,182.80 | |
| Sheet 8B (Interest calculated on average annual balances) | | | | | | | | | | | | | | | | | | |
| SMFA Revenues (from Sheet 8) | | 6,722.26 | \$ | 11,434.40 | \$ | 11,433.77 | \$ | 11,307.04 | \$ | 27,040.81 | \$ | 64,111.47 | \$ | 49,844.47 | \$ - | \$ | 181,894.22 | |
| SMFA Interest (from Sheet 8) | \$ | 41.93 | \$ | 576.12 | \$ | 911.70 | \$ | 376.05 | \$ | 415.48 | \$ | 1,365.97 | \$ | 1,945.55 | \$ - | \$ | 5,632.80 | |
| Net Deferred Revenue Requirement | | 5,393.24 | -\$ | 9,259.07 | -\$ | 9,773.37 | -\$ | 5,776.76 | \$ | 86,109.13 | \$ | 256,807.38 | \$ | 412,303.19 | \$ 485,955.03 | \$ | 725,017.26 | |
| Number of Metered Customers (average for 2013 test year) | | | | | | | | | | | | | | | 3544 | | | |

umber 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)

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

| Years for colle | ection or refunding | | 2 | | | | | | |
|------------------|---|------------|-------------------|---------------------|--|--|--|--|--|
| | emental Revenue Requirement from 2006 to December 31, 2012 terest on OM&A and Amortization | \$ | 912,544.28 | | | | | | |
| SMFA Reven | ues collected from 2006 to 2013 test year (inclusive) imple Interest on SMFA Revenues | \$ | 187,527.02 | | | | | | |
| | Revenue Requirement | \$ | 725,017.26 | | | | | | |
| SMDR | November 1, 2012 to | \$ | 8.52 | <mark>≻ M</mark> at | | | | | |
| Check: Forec | asted SMDR Revenues | \$ | 724,677.12 — | | | | | | |
| Calculation of S | mart Meter Incremental Revenue Requirement Rate Rider (per me | etered cus | stomer per month) | | | | | | |
| Incremental R | evenue Requirement for 2013 | \$ | 485 955 03 — | | | | | | |

Appendix 4 Response to VECC 7a GS<50 Model

| | | 2006 | | 2007 | | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | Tota | to 2011 | Tot | otal to 2012 |
|--|----|-------|----|-------|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|------|---------|-----|--------------|
| Deemed Short Term Debt | \$ | - | \$ | - | \$ | - | \$ | 8 | \$ | 402 | \$ | 965 | \$ | 1,124 | \$ | 1,375 | \$ | 2,500 |
| Deemed Long Term Debt | \$ | 8 | \$ | 22 | \$ | 50 | \$ | 616 | \$ | 32,284 | \$ | 77,382 | \$ | 90,172 | \$ | 110,362 | \$ | 200,534 |
| Equity | \$ | 10 | \$ | 28 | \$ | 54 | \$ | 532 | \$ | 24,240 | \$ | 58,102 | \$ | 67,705 | \$ | 82,965 | \$ | 150,671 |
| Return on Capital | \$ | 18 | \$ | 50 | \$ | 104 | \$ | 1,157 | \$ | 56,926 | \$ | 136,448 | \$ | 159,002 | \$ | 194,702 | \$ | 353,704 |
| Operating Expense | \$ | 1,330 | \$ | 2,550 | \$ | 2,063 | \$ | 1,701 | \$ | 14,122 | \$ | 24,117 | \$ | 19,048 | \$ | 45,883 | \$ | 64,931 |
| Amortization | \$ | 5 | \$ | 52 | \$ | 229 | \$ | 3,429 | \$ | 74,727 | \$ | 217,819 | \$ | 317,437 | \$ | 296,263 | \$ | 613,699 |
| Total Before PILs | \$ | 1,354 | \$ | 2,652 | \$ | 2,395 | \$ | 6,287 | \$ | 145,775 | \$ | 378,385 | \$ | 495,487 | \$ | 536,848 | \$ | 1,032,335 |
| PILS | \$ | 4 | \$ | 3 | -\$ | 14 | -\$ | 458 | -\$ | 32,433 | -\$ | 57,374 | -\$ | 33,701 | -\$ | 90,272 | -\$ | 123,974 |
| Revenue Requirement | \$ | 1,358 | \$ | 2,655 | \$ | 2,381 | \$ | 5,829 | \$ | 113,342 | \$ | 321,011 | \$ | 461,786 | \$ | 446,575 | \$ | 908,361 |
| Interest on Deferred OM&A and Amortization | \$ | 13 | \$ | 97 | \$ | 191 | \$ | 78 | \$ | 223 | \$ | 1,274 | \$ | 2,307 | \$ | 1,876 | \$ | 4,183 |
| Total Revenue Requirement | \$ | 1,371 | \$ | 2,751 | \$ | 2,572 | \$ | 5,906 | \$ | 113,565 | \$ | 322,285 | \$ | 464,093 | \$ | 448,451 | \$ | 912,544 |