

December 5, 2011

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

Dear Ms Walli:

Re: Welland Hydro-Electric System Corp.

Application to the Ontario Energy Board for 2012 Smart

Meter Cost Recovery effective May 1, 2012

Please find enclosed two copies of Welland Hydro's Application for Smart Meter Cost Recovery effective May 1, 2012, together with an electronic version of same and required Excel spreadsheets.

Yours very truly,

Wayne Armstrong

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IN THE MATTER OF the Ontario Energy Board Act, 1998, being Schedule B to the Energy Competition Act, 1998, S.O. 1998 c.15;

AND IN THE MATTER OF an Application by Welland Hydro-Electric System Corp. to the Ontario Energy Board for an Order or Orders approving or fixing just and reasonable rates with respect to smart meters as of May 1, 2012.

WELLAND HYDRO-ELECTRIC SYSTEM CORP. 2012 SMART METER COST RECOVERY APPLICATION

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WELLAND HYDRO-ELECTRIC SYSTEM CORP. APPLICATION FOR APPROVAL OF SMART METER COST RECOVERY EFFECTIVE MAY 1, 2012

1) INTRODUCTION

Welland Hydro-Electric System Corp. ("Welland Hydro") is an electricity distributor that is licensed and rate regulated by the Ontario Energy Board (referred to in this Application as the "Board", or the "OEB") under the Ontario Energy Board Act, 1998. Welland Hydro holds Electricity Distribution Licence No. ED-2003-0002.

Welland Hydro has been installing Smart Meters in its service area since 2009. As of October 31, 2011 Welland Hydro had 21,520 RPP-eligible consumers in the Residential and General Service Less Than 50kW customer classes. Of these customers, 21,351 or 99.2% have a smart meter installed with the balance scheduled for completion by December 31, 2011. Total Capital Costs related to Smarts Meters included in this application are forecast at \$3,037,636. The total amount of capital expenditures to October 31, 2011 is \$3,006,690 or 99.0% and have been audited by Welland Hydro's external auditors (see Appendix A for interim 2011 audit letter). The balance of capital spending (\$30,946) is represented by computer hardware expenditures for customer web presentment and installation costs of the remaining smart meters. Welland Hydro is currently scheduled to begin Time of Use Pricing with meter reads effective February, 2012. As a result, Welland Hydro seeks to dispose of the significant balances in the smart meter deferral accounts effective May 1, 2012.

Welland Hydro is currently subject to the Board's 3rd Generation Incentive Regulation Mechanism and is not scheduled for a Cost of Service Application until its 2013 Rate Application. On October 14, 2011 Welland Hydro filed its 2012 IRM Rate Application EB-2011-0202. The current Smart Meter Funding Adders of \$2.11 per metered customer have a sunset date of April 30, 2012 and are removed from distribution rates in the IRM Application.

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The removal of the Smart Meter Funding Adder is a major contributor to the forecasted decrease

of \$1.95 in the monthly bill for Residential customers and a \$2.11(after correction for Board

Staff Interrogatory #2) decrease in the monthly bill for General Service Less Than 50kW

customers included in that application. Welland Hydro submits that it is appropriate to recover

the revenue requirement related to smart meters effective May 1, 2012 rather than waiting till the

next Cost of Service Application to avoid significant rate fluctuations.

In light of the foregoing, Welland Hydro is filing this application for the recovery of the revenue

requirement related to smart meters installed in its service area. The Board has anticipated

applications of this kind in its Guideline G-2008-0002 - Smart Meter Funding and Cost

Recovery (issued October 22, 2008). At page 13, the Board states:

"The Board recognizes that significant smart meter related costs may accrue during the

term of an IRM plan. A distributor that has achieved at least 50% penetration of smart

meters within is service area may seek cost recovery by way of the disposition of the

balances in its smart meter related deferral accounts. Disposition of the balances in the

deferral accounts does not affect the distributor's rate base or revenue requirement, which

can only be adjusted during a cost of service proceeding.

When a distributor applies for and receives an order of the Board providing disposition of

the smart meter deferral accounts in a non-cost of service proceeding, a disposition rider

will be approved to provide recovery. The smart meter disposition rider provides a proxy

for how the revenue requirement would be determined in a cost of service proceeding."

In this Application, Welland Hydro is seeking Board approval of two proposed rate riders related

to smart meters as described below:

Smart Meter Disposition Rate Rider - (\$0.24)

This rate rider would be in effect from May 1, 2012 to April 30, 2013 and represents a

credit to customers resulting from comparing Revenues collected from customers to

April 30, 2012 versus the revenue requirement recoverable to December 31, 2011.

Smart Meter Incremental Revenue Requirement Rate Rider - \$2.34

This rate rider would be in effect from May 1, 2012 to April 30, 2013 which is the next scheduled Cost of Service Rate Application for Welland Hydro. This rate rider represents how the revenue requirement would be determined in a Cost of Service proceeding and is based on Smart Meter Capital Expenditures to December 31, 2011 and forecasted Smart Meter Operating Expenditures for January 1, 2012 to December 31, 2012.

Both rate rider amounts are fixed monthly charges per metered customer in the Residential and General Service Less Than 50kW customer classes. The net total of the two rate riders of \$2.10 (\$2.34-\$0.24) is equivalent to the current Smart Meter Funding Adder of \$2.11.

In order to provide meaningful bill impacts for the Residential and General Service Less than 50kW customer classes, the rate riders requested in this application should be combined with changes contained in Welland Hydro's 2012 IRM Rate Application EB-2011-0202. The total combined monthly bill impact for these customer classes would be as follows:

	Residential	<u>GS<50kW</u>
2012 IRM Application EB-2011-0202	(\$1.95)	(\$2.11)
Smart Meter Disposition	(\$0.24)	(\$0.24)
Smart Meter Revenue Requirement	\$2.34	\$2.34
HST Disposition and Revenue Requirement	\$0.27	\$0.27
OCEBA 10% Disposition, Revenue, HST	(\$0.24)	(\$0.24)
Total Monthly Bill Impact	<u>\$0.18</u>	<u>\$0.02</u>

All other rate classes would have monthly bill impacts as presented in the 2012 IRM Rate Application EB-2011-0202 submitted October 14, 2011.

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Welland Hydro submits that this application has been prepared in accordance with the Board's guidelines and requirements and respectfully requests that this Application be disposed of by way of a written hearing. In the event that the Board determines that it is necessary to convene an oral hearing in respect of this Application, Welland Hydro will advise the Board as to the members of its witness panel(s). It is anticipated that any witness panel(s) will be comprised of Welland Hydro personnel.

Welland Hydro requests the Board to give reasons in writing for its final decision and order(s) in this proceeding.

2) SMART METER COSTS

In this application, Welland Hydro is seeking recovery of costs related to the installation of 21,892 (21,520 eligible customers) smart meters installed from 2009 to 2011. Smart Meters installed exceeds eligible customers as there are currently sites with more than one meter and sites with a smart meter where the power is currently turned off. Welland Hydro can confirm to the Board that smart meters and advanced metering infrastructure which it has purchased has been vetted by the Fairness Commissioner as per Exhibit B attached. Exhibit B attached identifies that smart meter and advanced metering infrastructure were purchased from KTI/Sensus Limited. A copy of the Advanced Metering Infrastructure Sales and Services Agreement between Welland Hydro and Sensus is being filed in confidence, pursuant to the Board's Practice Direction on Confidential Filings. Welland Hydro is prepared to provide copies of the documents to parties' counsel and experts or consultants provided that they have executed the Board's form of Declaration and Undertaking with respect to confidentiality and that they comply with the Practice Direction, subject to Welland Hydro's right to object to the Board's acceptance of a Declaration and Undertaking from any person. The confidential agreement is being filed separately and marked "Confidnetial". Welland Hydro has not incurred any cost for meter functionality beyond the minimum functionality adopted in O. Reg 425/06.

Welland Hydro has completed the Smart Meter Model (Appendix C) provided by the OEB to arrive at the proposed Smart Meter Incremental Revenue Requirement Rate Rider of \$2.34 and

the proposed Smart Meter Disposition Rate Rider of (\$0.24). Both rate riders are per metered customer per month. Table 1 below provides a summary of the total capital costs for all smart meters and the forecasted incremental OM & A costs for 2012.

Table 1: Cost per installed Smart Meter

		Cost per
Description	Total Cost	Meter
Smart Meters and AMI System	\$3,021,740	\$138.03
Web Presentment	\$15,896	\$0.73
Total Capital Costs	\$3,037,636	\$138.76
Number of Smart Meters installed	21,892	
Incremental O & M 2012 projected	\$176,775	\$8.07
Total Cost per installed Smart Meter		\$146.83

In its decision on PowerStream's Smart Meter Rate Application EB-2010-0209 Board Staff provided a table of Cost per installed Smart Meter for Urban Distributors for a comparison to the \$153.63 average cost per installed smart meter incurred by PowerStream. This table has been reproduced in Table 2 below.

Table 2: Cost per installed Smart Meter for Urban Distributors

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

Board Staff also noted that costs since the Combined Proceeding (EB-2007-0063) which provided the above figures may have risen due to inflationary pressures as well as increased costs related to deployment of smart meters to locations that are harder to reach or where rework may involve more time, labour and material. Welland Hydro's total cost of \$146.83 per installed meter represents 100% of all smart meters including the more difficult and more expensive three

phase meters. Installation costs for these meters would also increase compared to the initial mass deployment where there were economies related to volume. As a result, Welland Hydro believes that the total costs per installed smart meter submitted in this application are reasonable and prudently incurred.

Welland Hydro has provided the Board with estimated Smart Meter costs in both its 2010 IRM (EB-2009-0252) and 2011 IRM (EB-2010-0118) Rate Applications. A comparison of the smart meter capital forecasts in the previous applications to the current application is as follows:

	<u>2010</u>	2011	2012
Smart Meters & Installation	\$2,894,476	\$2,642,299	\$2,724,533
Work Force Automation-Hardware	6,129	27,297	57,633
Work Force Automation-Software	4,560	4,560	20,360
Advance Metering Collector	247,576	247,576	200,199
Other AMI Capital Costs	<u>2,382</u>	60,290	34,911
Total Capital Costs	<u>\$3,155,123</u>	\$2,982,022	\$3,037,636

Changes in the workforce automation hardware/software costs reflect additions to systems including meter changes live in the field, operational data storage (ODS), and web presentment. These have been offset by reduce three phase meter costs and collector costs. Overall, Welland Hydro believes that its initial estimated capital costs related to smart meters reflect the costs included in this application.

However, OM & A costs were more difficult to forecast as agreements related to the ODS, Web Presentment, Business Process Redesign, and Program Management costs were not known in 2009/10. As a result, incremental annual OM & A costs included in this application better reflect actual costs than previous estimates.

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3) Stranded Meter Costs

Welland Hydro is not seeking disposition of its stranded meter costs. Welland Hydro continues

to recover these costs by including the net book value of stranded meters in its rate base for rate-

making purposes.

The net book value of the stranded conventional meters at December 31, 2010 was \$639,926 and

are included in Welland Hydro's net fixed assets. This amount will be reduced by a depreciation

amount of \$80,453 in 2011 resulting in a net book value of \$559,473 at December 31, 2011.

Proceeds on the scrapped meters total (\$3,564) and are also included in net fixed assets but are

not subject to depreciation.

These balances are expected to be dealt with in Welland Hydro's next Cost of Service

Application in 2013.

4) Smart Meter Incremental Revenue Requirement Rate Rider Calculation

Welland Hydro is seeking a rate rider to recover the revenue requirement associated with the

smart meter investments approved in this Application from May 1, 2012 until this is incorporated

into distribution rates in Welland Hydro's next Cost of Service distribution rate application

currently scheduled for 2013.

The smart meter incremental revenue requirement rate rider is derived from the 2012 revenue

requirement of \$605,226 as calculated in Tab 5 (Smart Meter Revenue Requirement) of the

Smart Meter Cost Recovery Model (Appendix C attached) and summarized in Table 3 below.

Table 3: Calcualtion of Revenue Requirement

Rate Base	Amount
Net Fixed Assets	\$2,468,108
Working Capital Allowance	\$26,516
Incremental Smart Meter Rate Base	\$2,494,624
Revenue Requirement	
Short Term Interest	\$1,327
Long Term Interest	\$106,451
Return on Equity	\$79,928
OM & A	\$176,775
Amortization	\$220,454
Grossed-Up PILS	\$20,292
Total	\$605,226

The Smart Meter Cost Recovery Model then calculates the Smart Meter Incremental Revenue Requirement Rate Rider by dividing the Total Revenue Requirement of \$605,226 by the number of Metered Customers (Residential & GS<50kW) 21,520 divided by twelve months to arrive at the monthly rate rider of \$2.34.

The capital expenditures which make up the average net fixed assets included above are included in Tab 2-Smart Meter Costs of the Smart Meter Recovery Model. The majority of the capital costs are actual meter costs and their installation along with the AMRC Collector. The balance represent costs associated program management, workforce automation hardware and software, and the set up of the Operational Data Storage (ODS). No further capital expenditures will be charged to the Smart Meter Deferred Capital Account effective January 1, 2012.

In order to prepare for Time of Use Billing, Welland Hydro was required to make a decision on whether to upgrade the existing billing software within the current CIS (unique to Welland Hydro) or implement a new system. The current vendor provided an initial estimate of \$170,000 for modifications to connect to the MDMR and implement time of use billing. After careful review Welland Hydro had concerns about the actual modification costs exceeding the estimate, additional costs to modify the CIS/Billing system for ongoing upgrades to the MDMR, limited

internal resources, and a very distinct possibility that this project would not meet the Time of Use dates assigned by the OEB. As a result, Welland Hydro decided to install a new NorthStar CIS from Harris which is in place at over 40 distributors in Ontario. Capital conversion costs totalled \$344,000 and maintenance costs are approximately \$11,000 per month. As the previous billing system was maintained internally the above costs are incremental to Welland Hydro. The decision to replace the current billing system at this time was predicated by the mandated Smart Meter Initiative and Time of use Pricing. Although Welland Hydro believes a case can be made to include a portion of the CIS conversion and maintenance costs to the Smart Meter Deferral Accounts, Welland Hydro can confirm to the Board that no costs associated with the conversion to the new CIS have been included in capital or operating expenses included in this application.

With the exception of OM & A costs most items within the Revenue Requirement are based on capital expenditures. The OM & A costs of \$176,775 in Table 3 represent forecasted costs for January 1, 2012 to December 31, 2012. Tab-2 Smart Meter Costs in the Smart Meter Recovery Module details costs by type of expenditure with a total of \$129,891 included as 2.5 Other AMI Costs Related to Minimum Functionality as shown in Table 4 below.

Table 4: Other Incremental AMI OM & A Costs

Description	Amount
2.5.1 Business Process Redesign	\$36,961
2.5.2 Customer Communication	\$6,000
2.5.3 Program Management	\$49,148
2.5.6 Other AMI Expenses	\$37,782
Total Incremental Other AMI	\$129,891

2.5.2 Customer Communication costs reflect education materials to be sent out to customers concerning the implementation of Time of Use Rates which will take place with February, 2012 meter reads. 2.5.3 Program Management Costs represent consulting and Sync Operator services contracted out to a third party to deal with MDMR reporting and exceptions and network management. 2.5.6 Other AMI Expenses are related to ODS storage applications.

2.5.1 Business Process Redesign reflects the changes to annual internal costs as a result of preparation for Time of Use Pricing. Appendix D attached provides details concerning these changes. As a result of switching to a new CIS Billing System, Welland Hydro was required to convert Residential accounts from bi-monthly to monthly billing. This has resulted in Welland Hydro issuing approximately 9,176 additional invoices per month. Additional costs for invoices, envelopes, toner, and delivery cost not included in distribution rates total approximately \$60,079 per year. In addition, Welland Hydro will be increasing the staff of the billing department from two to three individuals effective November 28, 2011 for which 75% or \$60,921 will be charged to smart meters. Welland Hydro believes this to be a conservative estimate as a result of an increase in the volume of transactions and complexity associated with the implementation of Time of Use Pricing. These cost increases will be for the most part offset by decreases in meter reading costs. During 2011 Welland Hydro eliminated manual reading of Residential meters and began reading these meters electronically thru a third party until the ODS was in place in the 4th quarter of 2011. General Service meters will be read manually until the end of 2011. In 2012, all meter readings will be obtained thru the AMI/ODS at no additional costs. This will result in decreased meter reading costs of (\$84,039) in 2012 compared to 2010. The net result is an increase in annual internal costs of \$36,961 in 2012 related to 2.5.1 Business Process Redesign.

As a result of the above, Welland Hydro is requesting the Board to approve a Smart Meter Incremental Revenue Requirement Rate Rider of \$2.34 per metered Residential and GS<50kW customers effective May 1, 2012 until the next Cost of Service Rate Application currently scheduled for 2013.

5) Smart Meter Disposition Rate Rider

The Smart Meter Disposition Rate Rider reconciles the Revenue Requirements for January 1, 2007 to December 31, 2011 compared to revenues collected from the Smart Meter Funding Adder from May, 2006 to April, 2012. These figures are presented in the various tabs of the Smart Meter Recovery Model and are summarized in Table 5 below.

Table 5: Smart Meter Disposition Rate Rider

Revenue Requirement 2007	\$14,285
Revenue Requirement 2008	\$11,900
Revenue Requirement 2009	\$276,380
Revenue Requirement 2010	\$420,086
Revenue Requirement 2011	\$554,288
Interest on OM & A Deferred Accounts	\$14,224
Total Revenue Requirement	\$1,291,163
Smart Meter Rate Adder Revenue	\$1,306,396
Carrying Costs	\$45,637
Smart Meter True Up	-\$60,870
Metered Customers	21,520
Smart Meter Disposition Rate Rider	-\$0.24

Welland Hydro can confirm for the Board that total smart meter OM & A expenses (excluding depreciation) from January 1, 2007 to December 31, 2011 total \$344,042. The total amount which as been audited by Welland Hydro's external auditor to October 31, 2011 is \$246,276 or 72%. The balance of forecasted spending for 2011 of \$97,766 are detailed in Table 6 below.

Table 6: Forecasted OM & A November-December 2011

2.3.2 TGB Maintenace Oct-Dec	\$6,264
2.3.2 Meter Change Software Maintenance Oct-Dec	\$2,996
2.5.1 Incremental Business Redesign Costs-Appendix D	\$24,443
2.5.2 Customer Communication-Appendix E	\$42,948
2.5.3 Consulting MDMR Oct-Dec	\$3,774
2.5.3 Sync Operator Charges Oct-Dec	\$8,450
2.5.6 ODS Maintenance Oct-Dec	\$8,536
2.5.6 AS2 Hosting Nov-Dec	\$355
Smart Meter True Up	\$97,766

As a result of the above, Welland Hydro is requesting the Board to approve a Smart Meter Disposition Rate Rider of (\$0.24) per metered Residential and GS<50 customer effective May 1, 2012 until April 30, 2013.

6) Rate Change Summary and Bill Impacts

Table 7 below summarizes the rate changes sought in this Application and the 2012 IRM EB-2011-0202 filed on October 14, 2011.

Table 7 Combined Bill Impact By Customer Class

Customer Class	Current Monthly Bill*	2012 IRM_	Smart Meter Disposition Rider	Smart Meter Revenue Requirement Rider	HST Smart Meter Riders	OCEBA Smart Meter Riders & HST	Change \$	Change %
Residential	\$109.86	-\$1.95	-\$0.24	\$2.34	\$0.27	-\$0.24	\$0.18	0.16%
GS<50 kW**	\$255.82	-\$2.11	-\$0.24	\$2.34	\$0.27	-\$0.24	\$0.02	0.01%
GS>50 kW	\$1,676.86	-\$21.81	\$0.00	\$0.00	\$0.00	\$0.00	-\$21.81	-1.30%
Large Use	\$515,862.15	-\$4,395.33	\$0.00	\$0.00	\$0.00	\$0.00	-\$4,395.33	-0.85%
Unmetered	\$67.00	-\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	-\$0.01	-0.01%
Sentinel Lights	\$17.34	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02	0.12%
Street Lights	\$11.82	-\$0.07	\$0.00	\$0.00	\$0.00	\$0.00	-\$0.07	-0.59%

^{*} See 2012 IRM Rate Application EB-2011-0202

7) Cost Allocation

Page 4 of the instructions included in the Smart Meter Recovery model (Appendix C Page 19) states "The model does not deal with allocations between customer rate classes. In calculating the SMDR and SMIRR, the Board has approved, in some applications, the recovery of amounts from certain applicable customer classes based on the availability of detailed data at the customer class level and on principles of cost causality. Appendix F provides the Board with two alternatives for calculating the Smart Meter Revenue Requirement Rate Rider. The first is based on a review of actual smart meter costs and the second is based on information from the 2006 Cost Allocation (last module submitted by Welland Hydro). Appendix G provides the detail for apportioning capital costs between Residential and GS<50kW rate classes. The basis of the split focuses on the more expensive three phase meters which were not purchased until 2011 and were installed by Welland Hydro personnel (during this time Welland Hydro outsourced locates to free up appropriate manpower). The actual number of meters in each class is known and the

^{**} Adjusted for Board Staff Interrogatory #2

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associated costs (meters/installation) have been split accordingly. All of the other costs were split between classes based on meters in each class. This results in an average capital cost/meter of \$127.77 for Residential and \$267.88 for GS<50kW. Using these capital costs would produce Smart Meter Revenue Requirement Rate Riders of \$2.21 for Residential and \$3.86 for GS<50kW as shown in Appendix F as opposed to a uniform rate of \$2.34. The use of information contained in the 2006 Cost Allocation Model would produce Smart Meter Revenue Requirement Rate Riders of \$1.90 for Residential and \$7.49 for GS<50kW. Welland Hydro would argue that using a five year old cost allocation model to apportion capital costs based on conventional meters is inappropriate. This methodology assigns 67.2% of the costs to 92.1% of the meters. Advances in technology has significantly narrowed the gap between the cost of residential and commercial meters. As a result, should the Board decide against the uniform Smart Meter Revenue Requirement Rate Rider that Welland Hydro has requested, Welland Hydro proposes that the Board use the estimated split contained in Appendix F Part A.

The model also states that "whichever method is adopted, the Board is of the view that any cost allocation approach should be consistent between the SMDR and the SMIRR when disposition is sought in a stand-alone application." As a result, Appendix H details the calculation of the Smart Meter Disposition Rate Rider using the estimated actual cost per customer class and Appendix I uses the cost allocation methodology.

Since the three phase meters were not installed until 2011, Welland Hydro has prepared Appendix H (Return on Rate Base and Amortization) based on cumulative capital spending by class in each year. The Smart Meter Funding Adder Revenue and Carrying Costs are based on actual amounts collected from customers. Revenues collected from GS>50kW and Large Use customer classes have been apportioned based on revenues collected in the Residential and GS<50kW classes. The result is a Smart Meter Disposition Rate Rider of (\$0.28) for the Residential class and \$0.27 for GS<50kW as opposed to a uniform rate of (\$0.24).

Appendix I calculates the Smart Meter Disposition Rate Rider based on information from the 2006 Cost Allocation Model. Smart Meter Funding Adder Revenue and Carrying Costs have been apportioned in the same percentage as Revenue Requirement. As indicated above, Welland Hydro believes that the use of information from a five year old cost allocation model is inappropriate. Should the Board decide against the uniform Smart Meter Disposition Rate Rider that Welland Hydro has requested, Welland Hydro proposes that the Board use the estimated split contained in Appendix H.

Table 8 below shows the Combined Bill Impact By Customer Class should the rate riders be based on estimated capital costs by customer class.

Table 8 Combined Bill Impact By Customer Class - Based on Estimated Capital Cost By Class

Customer Class	Current Monthly Bill*	2012 IRM	Smart Meter Disposition Rider	Smart Meter Revenue Requirement Rider	HST Smart Meter Riders	OCEBA Smart Meter Riders & HST	Change \$	Change %
Residential	\$109.86	-\$1.95	-\$0.28	\$2.21	\$0.25	-\$0.22	\$0.01	0.01%
GS<50 kW**	\$255.82	-\$2.11	\$0.27	\$3.86	\$0.54	-\$0.47	\$2.09	0.82%
GS>50 kW	\$1,676.86	-\$21.81	\$0.00	\$0.00	\$0.00	\$0.00	-\$21.81	-1.30%
Large Use	\$515,862.15	-\$4,395.33	\$0.00	\$0.00	\$0.00	\$0.00	-\$4,395.33	-0.85%
Unmetered	\$67.00	-\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	-\$0.01	-0.01%
Sentinel Lights	\$17.34	\$0.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02	0.12%
Street Lights	\$11.82	-\$0.07	\$0.00	\$0.00	\$0.00	\$0.00	-\$0.07	-0.59%

^{*} See 2012 IRM Rate Application EB-2011-0202

^{**} Adjusted for Board Staff Interrogatory #2

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8) Conclusion

Welland Hydro respectfully submits that the costs necessary to fulfill its obligations under the provincially mandated Smart Meter initiative have been prudently incurred in accordance with Board guidelines. Welland Hydro will be providing an updated cost allocation model in its 2013 Cost of Service Application which will include the new smart meters and deal with stranded conventional meters. As the Cost of Service application and an up-to-date Cost Allocation Model (with the corresponding Revenue to Cost Ratios) is only one year away, Welland Hydro is requesting the Board to approve the uniform Smart Meter Rate Riders at this time. Welland Hydro believes that the uniform proposed riders are just and reasonable, the associated bill impacts (combined rate applications) are minimal; and it is appropriate that the Board approve these proposed riders effective May 1, 2012.

Deloitte

Appendix A Page 1

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Independent Auditor's Report

To the Ontario Energy Board

At the request of Welland Hydro-Electric Systems Corp., we have audited the Capital Costs and OM&A expenses for the period from January 1, 2011 to October 31, 2011 included in the accompanying Smart Meter Capital Cost and Operational Expense Data (the "financial information"). This financial information has been prepared in accordance with the accounting guidelines established by the Ontario Energy Board.

Management's Responsibility for the Financial Information

Management is responsible for the preparation and fair presentation of the financial information in accordance with guidelines established by the OEB, and for such internal control as management determines is necessary to enable the preparation of the financial information that is free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on the financial information based on our audit. We conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance whether the financial information is free of material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial information. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial information, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial information in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the financial information.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Appendix A

Opinion

In our opinion, the financial information presents fairly, in all material respects, the capital costs and OM&A expenses for the period from January 1, 2011 to October 31, 2011 in accordance with the accounting guidelines established by the Ontario Energy Board.

Basis of Accounting and Restriction on Distribution

Deloitte & Touche LLP

Without modifying our opinion, we draw attention that the financial information has been prepared in accordance with the accounting guidelines established by the Ontario Energy Board. As a result, the financial information may not be suitable for another purpose. Our report is intended solely for Welland Hydro-Electric Systems Corp. and the Ontario Energy Board and should not be distributed to parties other than Welland Hydro-Electric Systems Corp. or the Ontario Energy Board.

Chartered Accountants

Licensed Public Accountants

November 24, 2011



ঠিকৈ Ontario Energy Board Smart Meter Model

Welland Hydro-Electric System Corp.

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, La. 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, too OMEA, regardless of whether a distributor has deployments in 2012, distributors should enter the fore-casted OMEA for 2012 for all smart meters in service.

		2006	2007	2008	2009	2010	2011	2012 and later	Total	
Smart Meter Capital Cost and Operational Expense Data		Audited Actual	Audited Actual	Audied Actual	Audited Actual	Audited Actual	Audind Actual	Forecast		
Smart Meter Installation Plan										
Actual/Planned number of Smart Meters installed during the Calendar Year										
Residential			Access to the Process Community of Contract Community of Contract	A THE COMP PLAN TO THE	,					o
General Service < 50 kW		£					E Bassach Wilde about the Transaction of Transactio	to the A a promotion of the A		0
Actual/Planned number of Smart Meters installed (Residential and GS $<$ 50 kW only)		0	0	0	0	0	0	0		0
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed		0.00%	0.00%	0.00%	0.00%	%00'0	0.00%	0.00%		
Actual/Planned number of GS > 50 kW meters installed						100				0
Other (please identify)										0
Total Number of Smart Meters installed or planned to be installed		0	0	0	o	0	0	0		0
1 Capital Costs				la!						
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)	Asset Type Asset type must be selected to enable									
1,1,1 Smart Meters (may include new maters and modules, etc.)	Smart Meter	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	\$ 2,364,768	,768
1,1.2. Installation Costs (may include socker kits, labour, vehicle, benefits, etc.)	Smart Meter				323,658	12,853	7,904		344,	344,715
1.1.3a Workforce Automation Hardware (may include feetwork handheids, barcode hardware, etc.)	Computer Hardware				27,297	0	14,440		5 41	41,737
1.1.3b Workforce Automation Software (may include finishwark handheids, barcode hardware, etc.)	Computer Software				4,560	0	15,800		\$ 20,	20,360
Total Advanced Metering Communications Devices (AMCD)		69	5	s->.	\$ 2,204,481	\$ 54,472	\$ 512,627	5	\$ 2,771,580	580
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (mckedes LAN)	Asset Type	Audited Actual	Audited Actual	Audited Artisal	Andless Annual	Lands of Ash	Anditod A basis			
1.2.1 Collectors	Tools & Equipment		Brown Robert	Source Source	198,069	0	O Comment	1	\$ 198,	198,069
1.2.2 Repeaters (may include radio feence, etc.)					0	0	0		ю	ţ:
1.2.3 Installation (may include moter seals and rings, collector computer hardware, etc.)	Other Equipment				2,130	0	0		5.	2,130
Total Advanced Metering Regional Collector (AMRC) (Includes LAN)		S	S	97	\$ 200,199	**		69	\$ 200	200,199

	(#) (0	. :	· [1			(6)				4,702	7,500	#11	*:	22,709	Už.	34,911	3,006,690			.00	2:		ŀ	3,006,690
	49 V	,	v> v			•	₩			s	w	w	w	49	10	69	ω			64	50	w	10	**
Forecast	Name and the second sec		₩		Forecast		5		Forecast							5	69		Forecast				is a	10
Audited Actual			60		Audited Actual		· .		Audited Actual	0	0			950'9		\$ 6,056	\$ 518,683		Audited Actual				•	\$ 518,683
Audited Actual			169		Audited Actual		\$		Audited Actual	90	7,500			16,653		\$ 24,213	\$ 78,685		Audited Actual				55	\$ 78,685
Audited Actual			(A)		Audited Actual		50		Audited Actual	4.542	0		housespaper-spaper-spaper stageop	O		\$ 4,642	\$ 2,409,322		Audited Actual	Penning a later of the second			·,	\$ 2,409,322
Audited Actual			69		Audited Actual		₩		Audited Actual							5	φ.		Audited Actual				65	₩
Audited Actual			69		Audited Actual		69		Audited Actual							69	69		Audited Actual				s	•
Audited Actual			φ.		Audited Actual		s		Audited Actual							679	\$2		Audited Actual				69	,
Asset Type				Asset Type				Asset Type		Smart Meter	Computer Software			Smart Meter				Asset Type		Computer Software	Applications Software.	Computer Hardware		
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)	1.3.1 Computer Hardware	1.3.Z. computer software	1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include stated as takes, nexty and recovery computer, UPS, etc.) Total Advanced Metering Control Computer (AMCC)		1.4 WIDE AREA NETWORK (WAN)	1.4.1 Activiation Fees	Total Wide Area Network (WAN)		1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY	1.5.1 Customer Equipment (including repair of damaged equipment)	1.5.2 AMI Interface to CIS	1,5,3 Professional Fees	1.5.4 Integration	1.5.5 Program Management	1.5.6 Other AMI Capital	Total Other AMI Capital Costs Related to Minimum Functionality	Total Capital Costs Related to Minimum Functionality		1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY (Please provide a description date and dentify makes of benevot minimum functionality costs)	1.6.1 Costs related to technical capebilities in the smart meters or related communications infrastructure. Computer Software that exceed those specified in O Reg 425/06	1.6.2 Coats for deployment of smart meters to customers other than residential and small general service	 Ceats for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDMR, etc. 	Total Capital Costs Beyond Minimum Functionality	Total Smart Meter Capital Costs

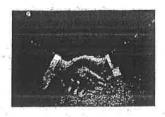
2 OM&A Expenses
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)
2.1.1 Maintenance (may include meter reverification cods, otc.)
2.1.2 Other (please specify)
Total Incremental AMCD OM&A Costs
2.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)
2.2.1 Maintenance
2.2.2 Other (please specifiy)
Total Incremental AMRC OM&A Costs
2;3 ADVANCED METERING CONTROL COMPUTER (AMCC)
2.3.1 Hardware Maintenance (may include sarver support, etc.)
2.3.2 Software Maintenance (may include maintenance support, etc.)
2.3.2 Other (please specify)
Total Incremental AMCC OM&A Costs
24 WIDE AREA NETWORK (WAN)
2.4.1 WAN Maintenance
2,4.2 Other (please specify)
Total Incremental AMRC OM&A Costs
2.5 OTHER AMI OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY
2,5,1 Business Process Redesign
2.5.2 Customer Communication (may include project communication, etc.)
2.5.3 Program Management
2.5.4 Change Management (may include training, etc.)
2.5.5 Administration Costs
2.5.6 Other AMI Expenses (please specify) Total Other AMI OM&A Costs Related to Minimum Functionality
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY
2.6 OMRA COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY (Please provide a descriptive file and identify nature of beyond minimum functionally costs) 2.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in 0.Reg 425/06
2.6.2. Costs for deployment of smart meters to customers other than residential and small general service
2.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDMR, etc.
Total OM&A Costs Beyond Minimum Functionality
Total Smart Meter OMEA Costs

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Audited Actual	40		\$ 40			,		47,476		\$ 47,476			S		0	0	0	976	14,427	672	\$ 16,075	\$ 63,591	Audited Actual				\$	\$ 63,591
Audited Actual	1,971	170	\$ 1,971			6		8.384		\$ 8,384			65		0	30,670	0	15,746	38,612	0	\$ 85,028	\$ 95,383	Audited Actual				69	\$ 95,383
Audited Actual			₩			υ				89			69		0	0	0	812	10,918	0	\$ 11,730	\$ 11,730	Audited Actual				\$	\$ 11,730
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Audited Actual			·			5				69			64)	0	0	0	0	0	0	69	69	Audited Actual				50	69

3 Aggregate Smart Meter Costs by Category

Capital	Smart Meter	Computer Hardware	Computer Software	Tools & Equipment	Other Equipment	Applications Software	Total Capital Costs	OM&A Costs	Total OM&A Costs
3.1	3.1.1	3.1.2	3.1.3	3,1.4	3,1,5	3,1.6	3.1.7	3.2	32.1

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•	 	W	69	49	49	49	69
\$ 61,502	518,683		9	8	15,800	14,440	488,443
	•	•	64	*	69	49	49
63,591	78,685	<i>0</i> #	35	*	7,500	¥	71,185
•		89	99	- 44	· 44	4	w
95,383	2,409,322	()(2,130	198,069	4,560	27,297	2,177,266
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\$ 11,730		S#	iti	*	(6)	3.	*11
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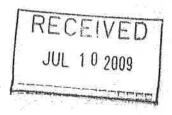


PRP International, Inc.

Fairness Advisory Services

June 30, 2009

Mr. Ross Peever President and CEO Welland Hydro Electric System Corporation 950 East Main Street, Box 280 Welland, ON L3B 5P6



Dear Mr. Peever:

Subject:

Confirmation of the Fairness Commissioner Welland Hydro Electric System Corporation – KTI/Sensus Limited Contract Award

Advanced Metering Infrastructure RFP, August 2007

London Hydro & Consortium of LDCs Smartmetering Project

PRP International, Inc. is pleased to submit its Confirming Letter of the Fairness Commissioner for the noted negotiations and contracting phase of the LH AMI Request for Proposal (RFP) procurement. This judgment is being provided for the information and use of Welland Hydro Electric System Corporation ("WHESC"), in its administration of the contract awarded to its #1 ranked Proponent, KTI/Sensus Limited.

"It is the judgment of PRP International, Inc., as the Fairness Commissioner engaged by WHESC for the phase of negotiations and contract award pursuant to the Fairness Protocols issued August 2008, that the successful conclusion of negotiations and contract between Welland Hydro Electric System Corporation and KTI/Sensus Limited, were undertaken in accordance with the principle for such negotiations and contract award set out in the RFP, issued August 14, 2007."

A backgrounder and summary of the Fairness Protocols is attached and forms part of this Confirming Letter.

Yours truly,

Peter Sorensen

President

Attachment: Negotiations and Contract Phase Backgrounder

203 - 8 Queen Street, Summerside, PEI C1N 0A6 Direct telephone: 902.436.3930 Fax: 604-677-5409

Email: fairness@telus.net

Exhibit B Pg 2 053

BACKGROUNDER TO FAIRNESS CONFIRMATION / ATTESTATION Advanced Metering Infrastructure Procurement

TO WHOM IT MAY CONCERN:

Background:

 A Request for Proposal procurement transaction was conducted by London Hydro Inc., as the lead sponsoring Local Distribution Company (LDC) and with a consortia of another 63 LDCs, during the period August 2007 to July, 2008;

 The evaluation and selection phase of the RFP provided for the determination of the #1 and #2 ranked Proponents for each LDC;

 RFP Provision 7.5.141 provides the framework (principle) for negotiations and contracting based on the principle of "first right to negotiation and execution of a contract" being accorded to the ranked order of Proponents commencing with the highest ranked Proponent and proceeding in a consecutive order thereafter; and

 Each LDC was provided the evaluation results for their #1 and #2 ranked Proponents supported by the Attestation Letter of the Fairness

Commissioner as to those rankings.

Fairness Coverage Objective:

Normally, fairness coverage terminates with the determination of the ranked Proponents following the evaluation and selection phase of the RFP; however, certain LDCs expressed a wish to secure additional fairness coverage during the subsequent phase of negotiations and contract award. The objective for this second phase fairness coverage is to assure that LDCs undertook a phase of negotiations and contracting that meets the RFP provisions of consecutive negotiations where required, e.g. with their top two ranked Proponents and in the event of unsuccessful negotiations with the #1 ranked Proponent, a subsequent contract award to the next ranked Proponent would be on an equitable basis as was the requirements in the negotiations with the #1 ranked Proponent.

7.5.14 Final Contract Negotiations

Any conditions and provisions that a bidder seeks shall be a part of this proposal. Notwithstanding, nothing herein shall be interpreted to prohibit London Hydro from introducing or modifying contract terms and conditions during negotiation of the final contract.

London Hydro has scheduled no more than two weeks for contract negotiations (if necessary), and expects the successful bidder to maintain a prompt and responsive negotiation to accomplish and complete final contract agreement within that time period. If contract negotiations exceed an interval acceptable to London Hydro. London Hydro retains the option to terminate negotiations and continue to the next apparent successful bidder, at the sole discretion of London Hydro. Said interval shall in no event be less than three weeks.

Exhibit B Page 363

BACKGROUNDER TO FAIRNESS CONFIRMATION / ATTESTATION Advanced Metering Infrastructure Procurement

Fairness Protocols:

 A Fairness Protocol was developed and issued to all LDCs, in August 2008 that set forth the best practices for fair consecutive-based negotiations and contract award.

The fundamental principle of the Protocol was the requirement for the LDC to establish the negotiations agenda for their top ranked Proponents and submit a copy to the Fairness Commissioner prior to engagement of their #1 ranked Proponent, i.e. the agenda would demonstrate a common statement of work, a LDC standard for pass/fail in their negotiations and the negotiation issues would only differ to the extent of the respective Proponent's technical solution being offered.

Form of Fairness Confirmation / Attestation2:

- 1. A confirmation of fair negotiations and contract award would be issued if the LDC's #1 ranked Proponent was awarded a contract; the original Attestation Letter remains in effect.
- 2. An Attestation of fair negotiations and contract award would be issued if the LDC determined that their #1 Proponent was to be set aside and the LDC successfully contracted with their next ranked Proponent, e.g. their #2; the original Attestation Letter is thus superseded by the Negotiations and Contract Award Attestation Letter.

Local Distribution Company:

Welland Hydro Electric System Corporation

Mr. Ross Peever President and CEO Welland Hydro Electric System Corporation 950 East Main Street, Box 280 Welland, ON L3B 5P6

The two Negotiations Agenda were provided by WHESC, via its agent Util-Assist;

 Fairness Commissioner undertook no direct participation or oversight in the negotiations between WHESC and their #1 ranked Proponent;

 The successful contract award was based on the WHESC criteria and no independent analysis nor any comparison with the evaluation results of the RFP process was carried out by the Fairness Commissioner; and

The confirmation of the Fairness Commissioner was based on the progress report(s) provided by WHESC, via its agent Util-Assist.

² Conditions on the rendering of this Confirmation / Attestation.

Ontario Energy Board
Smart Meter Model

Choose Your Utility:

Waterloo North Hydro Inc.
Welland Hydro-Electric System Corp.

—|\$

Application Contact Information

Name:

Wayne Armstrong

Title:

Director of Finance

Phone Number:

905-732-1381 Ext 234

Email Address:

warmstrong@wellandhydro.com

We are applying for rates effective:

May 1, 2012

Last COS Re-based Year

2009

Legend

DROP-DOWN MENU

INPUT FIELD

CALCULATION FIELD

Copyright

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

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



Mario Energy Board Smart Meter Model

Welland Hydro-Electric System Corp.

Distributors must enter all incremental costs nelated to their smart meter program and all revenues recovered to date in the applicable tabs except for brose costs (and associated revenues) for which the Board has approved on a final basis, i.a. 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 OMISA, regardless of whether a distributor has deployments in 2012, distributors should enter the forecasted OMISA for 2012 for all smart meters in service.

		2006	2007	2008	2009	2010	2011	2012 and later	Total	
Smart Meter Capital Cost and Operational Expense Data	5411	Audited Actual	. Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast		
Smart Meter Installation Plan										
Actual/Planned number of Smart Meters installed during the Calendar Year										
Residential	25				19,409	302	465			20176
General Service < 50 kW					819	153	744			1716
Actual/Planned number of Smart Meters installed (Residential and GS $<$ 50 kW only)		0	0	0	20228	455	1209	0		21892
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed		%00'0	%00'0	%00'0	92 40%	94.48%	100.00%	0.00%	10	100,00%
Actual/Planned number of GS > 50 kW meters installed					20.00					0
Other (please identify)	1	To good Target in the contract marginal display is for many contract.								0
Total Number of Smart Meters installed or planned to be installed		0	0	0	20228	455	1209	0		21892
1 Capital Costs	THE CONTRACT OF ME									
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)	Asset Type Asset type must be selected to enable	4					30			
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter	Audrted Actual	Audited Actual	Audited Actual	Audited Actual 1,848,766	Audited Actual	474,483	Forecast	\$ 2,36	2,364,768
1.1.2 Installation Costs (may include socker kits, labour, vehicle, benefits, etc.)	Smart Meter				323,858	12,953	22.954		\$ 35	359,765
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, benode handware, etc.)	Computer Hardware				72,297	0	30 336		49	57,633
1.1.3b Workforce Automation Software (may include fieldwork handheids, barcode hardware, etc.)	Computer Software				4,560	6	15,800		2	20,360
Total Advanced Metering Communications Devices (AMCD)		s	6.9	49	\$ 2,204,481	\$ 54,472	\$ 543,573	60	\$ 2,80	2,802,526
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)	Asset Type									
12.1 Collectors	Tools & Equipment	Audited Actual	Audited Actual	Audited Actual	Audited Actual 198,069	Audited Actual	Forecast	Forecast	\$	198,069
1.2.2 Repeaters (may include radio licence, etc.)	TOWN STREET				0	0	0		69	¥
12.3 Installation (may include mater seals and rings, collector computer hardware, etc.)	Other Equipment				2,130	0	0		90	2,130
Total Advanced Metering Regional Collector (AMRC) (Includes LAN)		10	59	φ.	\$ 200,199		55	69	\$ 20	200,199

	ii 8i	123			8				4,702	7,500	æ	767	22,709	(9	34,911	3,037,636			1		•		3,037,636
	69 (69)	W W			49	 ∽			b9	69	w	99	49	10	w	69			69	49	₩	60	'n
Forecast	TO LOCAL TO A CALLED TO LOCAL TO THE CONTROL THE CONTROL TO THE CONTROL TO THE CONTROL TO THE CONTROL TO THE CO	9		Forecast	The second secon	5		Forecast							89	8		Forecast					s
Forecast		s		Forecast		65		Forecast	0	0			950'9		\$ 6,056	\$ 549,629		Forecast				\$	\$ 549,629
Audited Actual		, i		Audited Actual		69.		Audited Actual	9	7,500			16,653		\$ 24,213	\$ 78,685		Audited Actual				65	\$ 78,685
Audited Actual		, ,		Audited Actual	Ī	62		Audited Actual	4,642	0			0		\$ 4,642	\$ 2,409,322		Audited Actual				49	\$ 2,409,322
Audited Actual		40		Audited Actual		·		Audited Actual				COOK, Supplement			\$	69		Audited Actual				69	\$
Audited Actual		5		Audited Actual		49		Audited Actual							8	\$		Audited Actual				\$	5
Audited Actual		5		Audited Actual		69		Audited Actual							\$	49		Audited Actual				s	S
Asset Type			Asset Type		The state of		Asset Type		Smart Meter	Computer Software	HEAVE STATE		Smart Meter				Asset Type		Computer Software	Applications Software	Computer Hardware		
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)	1.3.1 Computer Hardware 1.3.2 Computer Software	(3.3) Computer Software Licentees & Installation (includes hardware and software) (inserviction Astato disk searce beauty and recovery computer, UPS, etc.) Total Advanced Metaining Control Computer (AMCC)		1.4 WIDE AREA NETWORK (WAN)	1.4.1 Activiation Fees	Total Wide Area Network (WAN)		1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY	1.5.1 Customer Equipment (including repair of damaged equipment)	1.5.2 AMI Interface to CIS	1,5.3 Professional Fees	1.5.4 Integration	1.5.5 Program Management	1.5.6 Other AMI Capital	Total Other AMI Capital Costs Related to Minimum Functionality	Total Capital Costs Related to Minimum Functionality		1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY (Please provide a descriptive fifth and identify status of beyond minimum functionality; costs)	1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/D6	16.2. 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, rinegration with the MDMR, etc.	Total Capital Costs Beyond Minimum Functionality	Total Smart Meter Capital Costs

2 OM&A Expenses
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)
2.1.1 Maintenance (may include meter revention costs, ots.)
2.1.2 Other (pease specify)
Total Incremental AMCD OM&A Costs
2.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)
2.2.1 Maintenance
2.2.2. Other (pleaze specify)
Total Incremental AMRC OM&A Costs
2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)
2.3.1 Hardware Maintenance (may include server support etc.)
2.3.2 Software Maintenance (may include maintenance support, etc.)
2.3.2 Other (please specify)
Total Incremental AMCC OM&A Costs
2.4 WIDE AREA NETWORK (WAN)
2.4.1 WAN Maintenance
2.4.2 Other (please specify)
Total Incremental AMRC OM&A Costs
2.5 OTHER AMI OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY
2.5.1 Business Process Redesign
2.5.2 Customer Communication (may include project communication, etc.)
2.5.3 Program Management
2,5.4 Change Management (may include training, etc.)
2.5.5 Administration Costs
2.5.6 Other AMI Expenses (peuse specify) Total Other AMI OM&A Costs Related to Minimum Functionality
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY
2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY (Passes provide a descriptive title and identity rature of beginds minimum interiorating costs) 2.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06
2.6.2. Costs for deployment of smart meters to customers other than residential and small general service
2.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDMR, etc.
Total OM&A Costs Beyond Minimum Functionality
Total Smart Meter OM&A Costs

	2,011	À	2,011	y	140		w	131,933	ilie	131,933	9	īã		51,404	82,793	76,247	17,534	78,027	70,868	386,873	520,817		×		54	3	•	520,817
	49	vo	69	49	49	69	Ú3	49	**	65	49	69	S	69	49	49	49	₩9	69	ы	ы		100	8	50	69	w	47
Forecast	0		t 69:	Madden and other months of the contract		, , , , , , , , , , , , , , , , , , ,		46,884		\$ 46,884			s	36,961	6,000	49,148	0	0	37,782	\$ 129,891	\$ 176,775						49	\$ 176,775
Forecast	· O	*****	₩	The jet and the service of the jet in the je		4		29,189		\$ 29,189			69	24,443	46,123	27,099	0	0	32,414	\$ 130,079	\$ 159,268	Forecast					st	\$ 159,268
Audited Actual	40		\$ 40			6		47,478	Very complete and the c	\$ 47,476		NAA. meeting and a second and a	₩.	0	0	0	976	14,427	672	\$ 16,075	\$ 63,591	Audited Actual	The state of the s	***************************************			69	\$ 63,591
Audited Actual	1.671		1,971			69		8,384		\$ 8,384			S	a	30,670	0	15,746	38,612	0	\$ 85,028	\$ 95,383	Audited Actual					55	\$ 95,383
Audited Actual			·			*				59			·	0	0	0	812	10,918	0	\$ 11,730	\$ 11,730	Audited Actual				The second constitution of the second	69	\$ 11,730
Audited Actual			w			9				\$, un	o	0	0	0	14,070	0	\$ 14,070	\$ 14,070	Audited Actual				The same of the sa	42	\$ 14,070
Audited Actual			in the second se			\$				100			.,	0	0	0	0	0	0	60	69	Audited Actual		**************************************		THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	69	, •

3 Aggregate Smart Meter Costs by Category

	Capital	Smart Meter	Computer Hardware	Computer Software	Tooks & Equipment	Other Equipment	Applications Software	Total Capital Costs	OM&A Costs	Total OM&A Costs
)	3.1	3,1,1	3.12	3.1.3	3,1,4	3,1,5	3.1.6	3.1.7	3.2	32.1

57,633		27,860	198,069	2,130	ü	037,636	520,817
	69	49	69	49	49	3	
é:	æ	÷	36	87			5/1/2
9	s	8	s,	s	9		\$ 176,775
201,200	30,336	15,800	(*	æ	9	549,629	159,268
n	69	67	w.	49	49		
71,185	18	7,500	3.5	92	9	78,685	63,591
69	49	S	49	v	w	•	<u>س</u>
2,177,266	27,297	4,560	198,069	2,130	()	2,409,322	95,383
	69	w	us	un	S	5	5
è	iii	14	//4	ű	S		11,730
69	w	w	w	49	w		ب
¥	¥	24	Vä	9	090	-	14,070
69	69	69	49	49	69	••	ب
36	il é	×	(0)	104	(*)		
	40	***	40				



Smart Meter Model Ontario Energy Board

2009 2010 2011 4 0% 4 0% 4 0% 52.7% 55.0% 4 0.0% 13.3% 10.0% 100.0% 1 33% 7 52% 7 52% 8 51% 8 61% 8 6.0% 2 8 51% 8 61% 8 6.0% 2 8 51% 15.0% 15.0% 1 5.0% 10.0% 2 20.00% 2 20.00% 2 20.00% 2 20.00% 2 20.00% 2 20.00% 2 20.00% 2 20.00% 2 20.00% 2 20.00% 2 2 2 20.00% 2 2 2 20.00% 2 2 2 20.00% 2 2 2 2 20.00% 2 2 2 2 20.00% 2 2 2 2 20.00% 2 2 2 2 20.00% 2 2 2 2 2 20.00% 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Applications Software Applications Software

Assumptions
I plante smart meter installations occur evenly throughout the year.
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.

Welland Hydro Smart Meter Application



And Contario Energy Board Smart Meter Model

Net Fixed Assets - Smart Meters	2006	20	2007	2008	88	"	5009		2010		2011	2012	2012 and later
Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance		မောမ မြ	V . V . E	м м м	es es de	சு ம	2,177,266	φ φ! φ	2,177,266 71,185 2,248,451	ω ω ω	2,248,451 503,493 2,751,944	မာ မာ္	2,751,944
Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance	49 49	சு	vi vi	67 44 69	***	ம மு	72,576	တ္တ ဟု	72,576	69 69 69	220,099 166,680 386,779	φ φ φ	386,779 183,463 570,242
Net Book Value Opening Balance Closing Balance Average Net Book Value Net Fixed Assets - Computer Hardware	x 1 x	69 69 69	* * *	es es es	8-8-8	୫ ୫	2,104,690	e9 e9 ,e9	2,104,690 2,028,352 2,066,521	ଜ୍ୟ	2,028,352 2,365,165 2,196,758	ക ക _് ക	2,365,165 2,181,702 2,273,433
Gross Book Value Opening Balance Capital Additions duning year (from Smart Meter Costs) Retirements/Removals (if applicable) Closing Balance	50 50	ю ю (சு ம	v. v.)	φ φ . φ	27,297	es es es	27,297	↔ ↔ ; ↔	27,297 30,336 57,633	சு மு	57,633
Accumulated Depreciation Opening Balance Amortization expense during year Retirements/Removals (if applicable) Closing Balance	o sa lo	es:es: es		க க		တ ဟု မှ	2,730	မှ ဟု မှ	2,730 5,459 8,189	မှာ မှာ မှာ	8,189 8,493	બ બ બ	16,682 11,527 28,209
Net Book Value Opening Balance Closing Balance Average Net Book Value	சு சு	69 69 69	T E X	⇔ ↔	(K.)0 (A	€ 69 69	24,567	69 69	24,567 19,108 21,838	9 49	19,108 40,951 30,029	க க க	40,951 29,424 35,188
Net Fixed Assets - Computer Software (Including Applications Software) Gross Book Value Opening Balance Capital Additions during year (from Smart Meter Costs)	ftware)	छ छ	₩5 ₩0	₩ ₩	* *	ө ө	4,560	↔ ↔	4,560 7,500	₩ ₩	12,060	छ छ	27,860

Retirements/Removals (if applicable)	e de	U		4.5		v	4 560	u u	12 060	6/1	27.860	60	27.860
Accumulated Depreciation													0
Opening Balance Amortization expense during year	69 kg	69 KB	i	w w		us vņ	456	ń ń	1,662	ņφ	3,992	ņφ	5,572
Retirements/Removals (if applicable) Closing Balance	us us	ы		w		v?	456	97	2,118	9	6,110	ņ	11,682
Net Book Value Onenira Balance		69	Ti.	69	Ť	69	,	69	4,104	(/)	9,942	w	21,750
Closing Balance	, 0) 6	69 (ž.	ss o	r	69 (/	4,104	69 W	9,942	us u	21,750	us u	16,178
Net Fived Accete - Toole and Fruinment		9	ı l	,	ĺ.	>	7	•		,		•	
Gross Book Value													
Opening Balance Capital Additions during year (from Smart Meter Costs)	w	⇔ ↔	N W	69 KB	ě v	69:10	198,069	es es	198,069	es vo	198,069	6 9 69	198,069
Retirements/Removals (if applicable) Closing Balance	67	ь	, a	ь	*	υə	198,069	67	198,069	s	198,069	v	198,069
Accumulated Depreciation		(6				6		6	0	v	90 740	U	70 547
Opening Balance Amortization expense during year	9 69	0 00	e e	n 69		e eş	9,903	9 49	19,807	? 19	19,807	ę vę	19,807
Retirements/Removals (if applicable) Closing Balance	69	ы		w	•	φ	9,903	v7	29,710	197	49,517	9	69,324
Net Book Value Opening Balance		↔	· W	69	,	69	٨	69	188,166	69	168,359	69	148,552
Closing Balance Average Net Book Value	.	69 69	9. X	w w		69 69	188,166	w w	178,262	us us	148,552	69	138,648
Net Fixed Assets - Other Equipment													
Gross Book Value	Sections and the section of the sect	₩	,	e	1	4	,	65	2 130	65	2 130	69	2.130
Cepturing Designation Company Smart Meter Costs) Designation of Control of C	- 59	φ.	-	⇔	- Company of the comp	9	2,130	69	¥0	w		w	
Netralifertainovais (il applicatio) Closing Balance	्र स्क	ω.	1	w. 69		ь	2,130	w	2,130	s	2,130	တ	2,130
Accumulated Depreciation Opening Balance	69	65	,	69	×	w	į	49	43	s?	128	49	213
Amortization expense during year		60	*	10	er.	Ŋ	43	ņ	88	Ŋ	82	u	98
Remements/removats (it applicable) Closing Balance	5	60	×	(A)	30	v?	43	ıγ	128	97	213	φį	298
Net Book Value Opening Balance	69	69	96	69	ä	69	1	69	2.087	69	2,002	€9	1,917
Closing Balance	,	69 (ж	69 (ï	69 (2,087	69	2,002	ю	1,917	69 6	1,832
Average Net Book Value		eo :	96	co.		€9	48	69	2,045	<i>(2)</i>	1,960	in.	1,8/4



Ontario Energy Board
Smart Meter Model

		2006		2007		2008		2009		2040		2044	5	2042 and Later	
Average Net Fixed Asset Values (from Sheet 4)													104		
Smart Meters	69	*	69	ï	69	30	49	1,052,345	1/2	2,066,521	e)	2,196,758	69	2,273,433	
Computer Hardware	w	¥	69	740	49	000	49	12,284	(r)	21,838	49	30,029	49	35,188	
Computer Software	63 1	Ť	49 (ű.	s) (٠	6 3	2,052	Ø	7,023	w	15,846	69	18,964	
100is & Equipment Other Eminement	v) v	Ŷ.	69 W	ï	69 6	×	69 6	94,083	69. 6	178,262	10.6	158,455	69 6	138,648	
Total Net Fixed Assets		ľ		•	•			1.161.807	9 69	2.275,689	9 41	2.403.048		2.468.108	
Windship Constant												-	•		
Operating Capital	v	3	4	14 070	•	11 730	v	06 383		63 501		150 250		176 776	
Working Capital Factor (from Sheet 3)	9	15%	•	15%	>	15%	•	15%	9	15%	90	15%	0	15%	
Working Capital Allowance	v	Ñ	49	2,111	49	1,760	44	14,307	99	9,539	69	23,890	49	26,516	
Incremental Smart Meter Rute Base	60	ľ		2,111	69	1,760	s	1,176,115	s	2,285,227	46	2,426,939	•	2,494,624	
Return on Rate Base															
Capital Structure			10		()		11								
Deemed Short Term Debt	69 6	٠	69 6	4 000	69 6) C	69 6	47,045	69 6	91,409	w (97,078	us e	99,785	
Equity	A 69	•);•	e n	1,055	n un	938 822	n en	509,258	n un	1,279,727	P 64	1,359,086	us u	1,396,989	
Preferred Shares	49	٠	69	,	69		69		69	,	69	1	69		
Total Capitalization	cs.		w	2,111	69	1,760	65	1,176,115	\$	2,285,227	64	2,426,939	49	2,494,624	
Return on															
Deemed Short Term Debt	69	Ť	69	4	67	,	u	626	49	1 216	64	1 291	65	1 327	
Deemed Long Term Debt	69		4	99	69	59	· vs	47,230	69	97,515	• 69	103,562	• 69	106,451	
Equity	69 1		69	96	69	74	63	40,792	69	73,219	69	77,759	49	79,928	
Preferred Shares	is.		is)		·	,	64		69	,	64	,	မှာ		
Total Return on Capital	49	•	69	161	49	133	69	88,647	69	171,950	sp.	182,613	4	187,705	
			8												
Operating Expenses	s)	0	69	14,070	49	11,730	69	95,383	s,	63,591	49	159,268	49	176,775	
Amortization Expenses (from Sheet 4)	,		69				į								
Omerifer Heriware	sə e		0	¥80	un u	ж.	vo 4	72,576	69 6	147,524	69.6	166,680	69 6	183,463	
Computer Software	9 69		9 60	÷(10)	n w	e e	n u	456	A 64	5,459 1,662	A 4	8,493	₩	7,25,11	
Tools & Equipment	69	•	w	*	w	×	69	9,903	• 69	19,807	•	19,807	• 69	19.807	
Other Equipment	69		s	•	49	•	69	43	49	82	49	85	Ш	85	
lotal Amortization Expense in Year	19	•	n	i i	69	•	643	85,707	69	174,537	69	199,057	₩	220,454	
Incremental Revenue Requirement before Taxes/PILs	69		69	14,231	69	11,863	69	269,737	69	410,078	69	540,937	so.	584,934	
Calculation of Taxable Income															
Incremental Operating Expenses	69	•	99	14,070	69	11,730	69	95,383	67	63,591	69	159,268	69	176,775	
Amortization Expense Interest Expense	69 69		60 K	. 8	w w	, g	49 V	85,707	(A 6	174,537	us e	199,057	69 6	220,454	
Net Income for Taxes/PILs	69		69	36	49	74	S	40,792	69	73,219	9 69	77,759	4	79,928	
Grossed-up Taxes/PILs (from Sheet 7)	691	ij	69	53.70	w	37.25	69	6,642.66	40	10,008.19	vı	13,350.48	4	20,292.36	
Revenue Requirement, including Grossed-up Taxes/PILs	49	•	60	14,285	s	11,900	69	276,380	10	420,086	67	554,288	69	605,226	



Ontario Energy Board
Smart Meter Model

For PILs Calculation

2012 and later Forecast	\$ 2,315,348,30 \$ 2,315,348,30 \$ 2,315,348,30 \$ 47 8 7 165,227,86 \$ 2,130,120,43	2012 and later Forecast	\$ 23,068,00 \$ 5 23,068,00 \$ 5 23,068,00 100% \$ 23,068,00 \$ 5 23,068,00 \$ 5 23,068,00	2012 and later Forecast	\$ 115,314.62	\$ 115,314,62 \$ 20% \$ 23,062,92 \$ 22,251,70
2011 Forecast	1,991,298,93 503,493,00 24,791,93 251,746,50 2,243,045,43 67,79 179,443,63 179,443,63 2,315,348,39	2011 Forecast	3,750,00 30,336,00 15,800,00 49,886,00 22,766,00 22,166,00 26,816,00 26,816,00 26,816,00 23,068,00	2011 Forecast	144,143,28	144,143.28 8 20% 20% 28,828.66 115,314.62
			www www		www w	
2010 Audited Actual	2,090,175,36 71,185,00 2,161,360,36 35,592,50 2,125,767,86 47 8% 170,061,43	2010 Audited Actual	15,928,50 7,500,00 7,500,00 3,750,00 52 100% 19678,50 100%	2010 Audited Actual	180,179,10	180,179,10 5 20% 36,035,82 144,143,28
					w w w	w w w w w
2009 Audited Actual	2,177,266.00 2,177,266.00 1,088,633.00 1,088,633.00 4,7 8% 87,090,64 2,090,175.36	2009 Audited Actual	27.297.00 4,560.00 31.857.00 15,928.50 15,928.50 100% 15,928.50 100%	2009 Audited Actual	198,069,00 2,130.00 200,199,00	100,099.50 100,099.50 8 20% 20,019.90 180,179.10
٨		4		٩	w w w	
2008 Audited Actual	0 %	2008 Audited Actual	0 %	2008 Audited Actual		%00
2007 Audited Actual	0%	2007 Audited Actual	8.0	2007 Audited Actual	en w	0 %
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				40 40 40 W	
2006 Audited Actual	0 %	2006 Audited Actual	0%0	2006 Audited Actual		0 %0
UCC - Smart Meters	Opening UCC Captal Additions Captal Additions Beforements/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC CCA Rate Class CCA CCA Rate CCA CCA Rate CCA Closing UCC	UCC - Computer Equipment	Opening UCC Capital Additions Computer Hardware Capital Additions Computer Software Reforments/Removals (if applicable) UCC Before Half Year Rule Half Year Rule (1/2 Additions - Disposals) Reduced UCC CCA Rate Class CCA Rate CCA Rate CCA Carle CCA Rate CCA Carle CCA	UCC - General Equipment	Opening UCC Capital Additions Tools & Equipment Capital Additions Other Equipment Retirements/Removals (if applicable) UCC Before Half Year Rule	Half Year Rule (1/2 Additions - Disposals) Reduced UCC CA Rate Class CCA Rate CCA Rate CCA Rate CCA Rate



Contanio Energy Board Smart Meter Model

Welland Hydro-Electric System Corp.

PILs Calculation

		Actual		Actual		Actual		Actual		Actual		2011 Forecast		Forecast
INCOME TAX														
Net income	49	119	49	94.97	49	73.95	49	40,791.54	69	73,218,68	49	77,759,11	49	79,927,75
Amortization	49	*	69	٠	69	-	49	85,707,28	49	174,537 40	49	199,056,93	и	220,453 63
CCA - Smart Meters	69	278	49	i di	49	a	49	87,090,64	49	170,061.43	49	179,443,63	မှ	185,227.86
CCA - Computers	49	×	49	W.	49	2	49	15,928,50	ş	19,678,50	49	26,818,00	ų	23,068,00
CCA - Applications Software	69	00	49	99	49	14	69		69	100	69	228	49	9
CCA - Other Equipment	411	,	47	•	63		47	20.019.90	47	36.035.82	49	28 828 66	49	23.062.92
Change in taxable income			٠,	94,97	4	73.95	oş	3,459,79	5	21,980,33	*	41,725,75	s	69,022,59
Tax Rate (from Sheet 3)		36.12%		36,12%		33.50%		29 02%		27.50%		24 24%		22 72%
Income Taxes Payable	**		10	34,30	60	24,77	149	1,004.03	w	5,044,59	~	10,114.32	40	15,581,93
ONTARIO CAPITAL TAX			0		139						174			
Smart Meters	A	8)	n		n		4	2,104,690.47	и	7,028,351.57	n	2,365,164 /3	m	2,181,701,80
Computer Hardware	us.	993	un	(40	49		44	24,567,30	49	19,107.90	w	40,950.90	44	29,424,30
Computer Software (Including Application Software)	49	- 50	69	*	vı	¥2	49	4,104,00	49	9,942.00	U	21,750.00	**	16,178 00
Tools & Equipment	v	18.	69	*	49		69	188,165,55	49	168,358,65	US.	148,551,75	***	128,744,85
Other Equipment	v		w		ю		(1)	2.087.40	w	2,002,20	63	1,917,00		1,831,80
Rate Base	60	:: *	919	×	49	E.¥	vs	2,323,614.72	69	2,227,762.32	45	2,578,334,38	179	2,357,880,75
Less. Exemption Deemed Taxable Capital	un	÷	49		50		10	2,323,614,72	49	2,227,762.32	60	2,578,334,38	**	2,357,880,75
Ontario Capital Tax Rate (from Sheet 3)		0 300%		0.225%		0.225%		0 225%		0.075%		%000 0		0.000%
Net Amount (Taxable Capital x Rate)	60	2.5	65	: e	60	24	69	5,228 13	69	1,670 82	69		69	See.
Change in Income Taxes Payable	v			34.30	v	74 72	*	1 004 03	4	6 044 59	u	10 114 32	v	15. GR1 03
Change in OCT	w		w		un.		169	5 228 13	iún	1,670,82	5/1		M	200
PILS	5/3		49	34,30	V9	24.77	S	6,232,16	1/7	7,715.41	w	10,114,32	m	15,681.93
Gross Up PILs		90		90		60		200		903 50		6		SCE
ax rate	ij	20 17.30		20, 12.78	1	20.00	3	23,0278	99	2/ 20 %		24 74 29	3	047177
Change in income Taxes Payable	,,	. (1)	10	93.70	n 4	37,25	en s	1,414,53	(4)	B,337.37	49	13,350,48	44 •	20,292 36
Pll's			9 44	53.70	0 49	37.25	9 49	6 842 86	9 40	10.008 19	2	13.350.48	, ,	20.202.16

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

							Acco	ount 1555 - Sub-	acc	ount Funding Adde	r Revenue	s				
The part		Approved Deferral														
			CWIP			9	Op	ening Balance								
2006 C2 4 14 14 0 40 95	Interest Rates	Accounts		Date	Year	Quarter		(Principal)		Revenues	Rate	Interest	Closing Balance	Annua	al amounts	(from Tariff)
2006 C2 4 14 14 0 40 95	2006.01		- 1	Jan₃06	2006	01		163	-		0.00%	S (#)	s -			
2006 C3 4 5994 5 4 594 5 4 595 4 5 4 5 4 5 4 5		4 14%	4.68%					36			0,00%		\$ -			
200 cd 4 59% 4 72%						Q1	\$	19.0			0,00%	\$	\$			
2007 C1 4, 59% 4, 27% Applies 2008 C2 8 5,703.00 \$ 1,503.00 \$ 2,703.00 \$ 0.27 2007 C2 4, 45% 4, 57% 1, 41,46% 5, 50% C2 5 1,100.00 \$ 5,000 C2 6 1,500 C2 7 2007 C2 4, 5,44% 5, 51% 4, 42,46% 200 C2 5 1,100.00 \$ 5,000 C2 6 1,500 C2 7 2007 C2 4, 5,44% 5, 51% 5, 51% 4, 42,46% 200 C2 5 1,100.00 \$ 5,000 C2 6 1,500 C2 7 2008 C2 1, 5,44% 5, 51% 5, 51% 5, 500 C2 6 1,500 C2 7 2008 C2 1, 5,44% 5, 51% 5, 51% 5, 500 C2 7 2008 C2 1, 5,44% 6, 51% 5, 500 C2 7 2009 C2 1, 4,69% 6, 51% 5, 500 C2 7 2009 C2 1, 4,69% 6, 51% 5, 500 C2 7 2009 C2 1, 4,69% 6, 51% 5, 500 C2 7 2009 C2 1, 4,69% 6, 51% 5, 500 C2 7 2009 C2 1, 4,69% 6, 51% 5, 500 C2 7 2009 C2 1, 4,69% 6, 51% 5, 500 C2 7 2009 C2 1, 4,69% 6, 51% 5, 500 C2 7 2009 C2 1, 4,69% 6, 51% 5, 500 C2 7 2009 C2 1, 4,69% 6, 500 C2 7 2009 C						Q2	\$	16.3			4,14%	\$	\$.			
2007 CQ						Q2	5					\$				
2007 04		4.59%	4.72%	Jun-06	2006	Q2	\$	0.00	\$							2417
2000 C1	2007 Q3	4.59%	5,18%	Jul-06	2006	Q3	\$	5,703,00	\$	6 199 00						
2000 C2	2007 Q4	5 14%	5,18%	Aug-06	2006	Q3	\$		5							0.1
2000 CG 3 3.399% 5.439% [19-00] 2000 CG 5 5 38,5350 0 \$ 6,648.00 4.599% \$ 105.25 8 5,546.73% \$ 0.27 2000 CG 1 2.469% 6.819% 24.07 2007 CG 1 8 30,8350 0 \$ 7,047.00 4.599% \$ 105.25 8 4.7022.50 8 4.702	2008 Q1	5 14%	5,18%	Sep-06	2006	Q3	S		5							
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Aug-10 2010 Q3 \$ 344,232,00 \$ 35,662 00 0.89% \$ 255.31 \$ 380,049.31 \$ 1.81 Sep-10 2010 Q3 \$ 379,794.00 \$ 44,192.00 0.89% \$ 281.68 \$ 424,267.68 \$ 1.81 OCt-10 2010 Q4 \$ 423,986,00 \$ 97,070 00 1.20% \$ 423.99 \$ 522,079.99 \$ 1.81 Nov-10 2010 Q4 \$ 521,656,00 \$ 35,179 00 1.20% \$ 521,66 \$ 580,356.66 \$ 1.81 Dec-10 2010 Q4 \$ 559,835.00 \$ 40,829.00 1.20% \$ 559.84 \$ 601,323.84 \$ 353,294.27 \$ 1.81 Jan-11 2011 Q1 \$ 600,764.00 \$ 40,517.00 1.47% \$ 735.94 \$ 642,016.94 \$ 1.81 Feb-11 2011 Q1 \$ 641,281.00 \$ 40,280.00 1.47% \$ 785.57 \$ 682,346.57 \$ 1.81 Apr-11 2011 Q1 \$ 681,561.00 \$ 37,927.00 1.47% \$ 834.91 \$ 720,322.91 \$ 1.81 Apr-11 2011 Q2 \$ 719,488.00 \$ 37,927.00 1.47% \$ 834.91 \$ 720,322.91 \$ 1.81 Apr-11 2011 Q2 \$ 757,414.00 \$ 37,927.00 1.47% \$ 801.37 \$ 758,285.37 \$ 1.81 Jun-11 2011 Q2 \$ 795,341.00 \$ 49,250.00 1.47% \$ 927.83 \$ 796,286.83 \$ 211 Aug-11 2011 Q3 \$ 844,766.00 \$ 49,017.00 1.47% \$ 1,034.84 \$ 894,817.84 \$ 2.11 Aug-11 2011 Q3 \$ 980,582.00 \$ 45,762.00 1.47% \$ 1,034.84 \$ 941,658.88 \$ 2.11 Nov-11 2011 Q4 \$ 986,682.00 \$ 45,762.00 1.47% \$ 1,263.98 \$ 1,078,849.98 \$ 2.11 Nov-11 2011 Q4 \$ 996,682.00 \$ 45,762.00 1.47% \$ 1,263.98 \$ 1,078,849.98 \$ 2.11									\$		0.89%	224.22	\$ 344,456,22			\$ 1.81
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Dec-10 2010 Q4 \$ 559,835.00 \$ 40,928.00 1.20% \$ 559.84 \$ 601,323.84 \$ 353,294.27 \$ 1.81 Jan-11 2011 Q1 \$ 600,764.00 \$ 40,517.00 1.47% \$ 735.94 \$ 642,016.94 \$ 5.81 Feb-11 2011 Q1 \$ 641,281.00 \$ 40,280.00 1.47% \$ 785.57 \$ 682,346.57 \$ 1.81 Apr-11 2011 Q2 \$ 719,488.00 \$ 37,927.00 1.47% \$ 834.91 \$ 720,322.91 \$ 1.81 Apr-11 2011 Q2 \$ 719,488.00 \$ 37,927.00 1.47% \$ 834.91 \$ 720,322.91 \$ 1.81 Apr-11 2011 Q2 \$ 775,414.00 \$ 37,927.00 1.47% \$ 881.37 \$ 758,295.37 \$ 1.61 Jun-11 2011 Q2 \$ 757,414.00 \$ 37,927.00 1.47% \$ 927.83 \$ 796,268.83 \$ 2.11 Jun-11 2011 Q2 \$ 795,341.00 \$ 49,425.00 1.47% \$ 974.29 \$ 845,740.29 \$ 2.11 Aug-11 2011 Q3 \$ 844,766.00 \$ 46,017.00 1.47% \$ 1,034.84 \$ 894,817.84 \$ 2.11 Aug-11 2011 Q3 \$ 940,564.00 \$ 45,498.00 1.47% \$ 1,152.19 \$ 987,214.19 \$ 2.11 Oct-11 2011 Q4 \$ 986,062.00 \$ 45,762.00 1.47% \$ 1,263.98 \$ 1,078,849.98 \$ 2.11 Nov-11 2011 Q4 \$ 1,031,624.00 \$ 45,762.00 1.47% \$ 1,263.98 \$ 1,078,849.98 \$ 2.11						Q4	\$	423,986,00	\$	97,670.00	1,20%	423.99				
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Feb-11 2011 Q1 \$ 641,281,00 \$ 40,280,00 1,47% \$ 785,57 \$ 682,346,57 \$ 1.81 Mar-11 2011 Q1 \$ 681,561,00 \$ 37,927,00 1,47% \$ 834,91 \$ 720,322,91 \$ 1.81 Apr-11 2011 Q2 \$ 719,488,00 \$ 37,927,00 1,47% \$ 881,37 \$ 758,285,37 \$ 1.81 May-11 2011 Q2 \$ 757,414,00 \$ 37,927,00 1,47% \$ 881,37 \$ 758,285,37 \$ 1.81 Jun-11 2011 Q2 \$ 757,414,00 \$ 37,927,00 1,47% \$ 927.83 \$ 796,268,63 \$ 2.11 Jun-11 2011 Q2 \$ 795,341,00 \$ 49,425,00 1,47% \$ 974.29 \$ 845,740,29 \$ 211 Jul-11 2011 Q3 \$ 844,766,00 \$ 49,017.00 1,47% \$ 1,034,84 \$ 894,817.84 \$ 2.11 Aug-11 2011 Q3 \$ 893,783,00 \$ 46,781,00 1,47% \$ 1,094,88 \$ 941,658,88 \$ 2.11 Sep-11 2011 Q3 \$ 940,564,00 \$ 45,498,00 1,47% \$ 1,094,88 \$ 941,658,88 \$ 2.11 Sep-11 2011 Q4 \$ 986,082,00 \$ 45,762,00 1,47% \$ 1,263,98 \$ 1,078,849,98 \$ 2.11 Nov-11 2011 Q4 \$ 1,031,824,00 \$ 45,762,00 1,47% \$ 1,263,98 \$ 1,078,849,98 \$ 2.11				Dec-10	2010	Q4	\$		\$					\$:	353,294.27	
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Jul-11 2011 Q3 \$ 844,766,00 \$ 49,017.00 1.47% \$ 1,034.84 \$ 894,817.84 \$ 2.11 Aug-11 2011 Q3 \$ 893,783.00 \$ 46,781.00 1.47% \$ 1,094.88 \$ 941,658.88 \$ 2.11 Sep-11 2011 Q3 \$ 940,564.00 \$ 45,498.00 1.47% \$ 1,152.19 \$ 987,214.19 \$ 2.11 OCI-11 2017 Q4 \$ 986,082.00 \$ 45,762.00 1.47% \$ 1,207.93 \$ 1,033,031.93 \$ 2.11 Nov-11 2011 Q4 \$ 1,031,824.00 \$ 45,762.00 1.47% \$ 1,263.98 \$ 1,078,849.98 \$ 2.11																
Aug-11 2011 Q3 \$ 893,783.00 \$ 46,781.00 1.47% \$ 1,094.88 \$ 941,658.88 \$ 2.11 Sep-11 2011 Q3 \$ 940,564.00 \$ 45,498.00 1.47% \$ 1,152.19 \$ 987,214.19 \$ 2.11 OCI-11 2011 Q4 \$ 986,082.00 \$ 45,762.00 1.47% \$ 1,207.93 \$ 1,033,031.93 \$ 2.11 Nov-11 2011 Q4 \$ 1,031,824.00 \$ 45,762.00 1.47% \$ 1,263.98 \$ 1,078,849.98 \$ 2.11																
Sep-11 201f Q3 \$ 940,564.00 \$ 45,498.00 1.47% \$ 1,152.19 \$ 987,214.19 \$ 2.11 Ocl-11 201f Q4 \$ 986,062.00 \$ 45,762.00 1.47% \$ 1,207,93 \$ 1,033,031.93 \$ 211 Nov-11 201f Q4 \$ 1,031,824.00 \$ 45,762.00 1.47% \$ 1,263.98 \$ 1,078,849.98 \$ 211																
Oct-11 2011 Q4 \$ 986,062.00 \$ 45,762.00 1.47% \$ 1,207,93 \$ 1,033,031.93 \$ 211 Nov-11 2011 Q4 \$ 1,031,824.00 \$ 45,762.00 1.47% \$ 1,263.98 \$ 1,078,849.98 \$ 211							47.155									
Nov-11 2011 Q4 \$ 1,031,824.00 \$ 45,792.00 1.47% \$ 1,263.98 \$ 1,078,849.98 \$ 2.11																
107 17 201 2 4 404 207 24 4 504 207 24 7 504 707 77 77 78																
Dec. 11 2011 da 19 11011 000100 6 da 1011 00 1010 6 da 101100 6 da														s	534.797.77	
				Dec-11	2011	44	4	1,017,000,00	100	75 102 00	12.77	,525,54	,,,	,		16

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	- 55.0	Wester County Devocational Libertina	Annual amounts	Meter	Approved Funding rom Tarif	Adder
			Jan-12		Qf	\$	1,123,348.00		45,762.00	1.47%	1,376,10	9	1,170,486.10		. 0		2.11
			Feb-12		Q1	5	1,169,110.00	_	45,762 00	1.47%	1,432.16	*	1,216,304.16				2.11
			Mar-12		Qf	\$	1,214,872,00		45,762 00	1.47%	1,488.22	3	1,262,122,22		9		
			Apr-12	2012	D2	\$	1,260,634,00	\$	46,762.00	1 47%	1,544 28	S	1,307,940.28		2		2 11
			May-12	2012	Q2	\$	1,306,396,00			1.47%	\$ 1,600,34	S	1,307,996,34		5		•
			Jun-12	2012	Q2	\$	1,306,396,00			1.47%	\$ 1,600.34	S	1,307,996,34		\$		•
			Jul-12	2012	Q3	\$	1,306,396.00			1.47%	\$ 1,600.34	\$	1,307,996.34		\$		-
			Aug-12	2012	Q2	\$	1,306,396,00			1.47%	\$ 1,600.34	\$	1,307,996.34		\$		
			Sep-12		QX	\$	1,306,396.00			1.47%	\$ 1,600.34	\$	1,307,996.34		\$		
			Oct-12		04	\$	1,306,396,00			1.47%	\$ 1,600.34	5	1,307,996.34		\$		
			Nov-12	2012	04	\$	1,306,396.00			1.47%	\$ 1,600.34	\$	1,307,996.34		\$		
			Dec-12	2012	124	\$	1,306,396,00			1.47%	\$ 1,600.34	S	1,307,996.34	\$ 201,691.48	\$		





Welland Hydro-Electric System Corp.

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

Year	OM&A (from S	OM&A from Sheet 5)	Amortizati Expense (from She	Amortization Expense (from Sheet 5)	Cumulati and Amo Expense	Sumulative OM&A ind Amortization expense	Average Cumulati and Amo Expense	verage Sumulative OM&A ind Amortization Expense	Prescribed interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple OM&A (Amortiz Expens	Simple Interest on OM&A and Amortization Expenses
900	69	V	(r)	v	v	K	69		4.37%	w	
2007	69	14,070.00	w	*	U	14,070.00	69	7,035.00	4.73%	w	332.58
908	69	11,730.00	69	*	ю	25,800.00	69	19,935.00	3.98%	v	793.41
600	69	95,383.00	69	85,707.28	69	206,890.28	69	116,345.14	1.14%	w	1,323.43
010	69	63,591.00	Ø	174,537.40	69	445,018.68	69	325,954.48	0.80%	(A)	2,599.49
111	(1)	159,268.00	w	199,056.93	s	803,343.62	69	624,181.15	1.47%	S	9,175.46
12	69	176,775.00	w	220,453.63	69	1,200,572.25	69	1,001,957.93	1.47%	s	14,728.78
umufativ	umulative Interest to 2017 umulative Interest to 2017	to 2011 to 2012								es es	14,224.37



Ontario Energy Board

This worksheet calculates the Smart Meter Disposition Rider and the Smart Meter Incremental Revenue Requirement Rais Rider, if applicable. This worksheet also calculates any new Smart Meter Funding Adder that carrier may with he request. However, places note that in many 2011 RN4 decisions, the Board noted that current funding adders will case on April 30, 2011 and that the Board's expectation is the clariforators will file for a fined involved or violence at the westest opportunity. The Board also noted that the BMFA is a board designed to provide advisoral funding and to mitigate the anticipated fine impact of the mark meter occas when recovery of those cocas is approved by the Board. The Beard observed that the SMFA was not intended to be compensatory (return or and of capital) or a compliative basis over the form the SMFA was in effect. The SMFA was initially designed to fund fatore when the SMFA should provide evidence to support its proposal. This would include documentation of where the distributor is with respect to its amant meter deployment program, and reasons as to with the distributor is with respect to its amant meter deployment program, and reasons as to with the distributor is with respect to its amant meter deployment program, and reasons as to with the distributor is with respect to its amant meter deployment program, and reasons as to with respect to the SMFA is to the SMFA is to the SMFA is the same of the SMFA is the small such that combination of the SMFA is Smart Meter Model Welland Hydro-Electric System Corp.

Check if applicable

Smart Meter Funding Adder (SMFA)

Smart Meter Disposition Rider (SMDR)

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 OMBA.

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

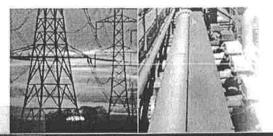
		2006		2007		2008		2009		2010		2011	20.	2012 and later		Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	49	*	44	14,284 63	uş.	11,899.82	V)	276,379,89	10	420,086 22	49	554,287,98	49	605,226,46	6/1	1,882,165.00
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/9B) (Check one of the boxes below)	ю	*	50	332 58	10	793.41		1,323,43	10	2,599.49	in	9,175,46			69	14,224 37
Sheet 8A (Interest calculated on monthly balances)															44	*
Sheet 6B (Interest calculated on average annual balances)		302	w	332,58	49	793,41	49	1,323,43	ø	2,599.49	49	9,175.46			64	14,224.37
SMFA Revenues (from Sheet 8)	69	39,893.00	49	70,099 00	69	70,693,00	19	\$ 69,783.00	69	\$ 350,296.00	49	522,584 00	69	183,048.00		1,306,396.00
SMFA Interest (fram Sheet 8)	49	467.18	69	3,471,76	69	5,551,35	ю	2,290.90	49	2,998.27	49	12,213,77	40	18,643.48		45,636,71
Net Deferred Revenue Requirement	są.	40,360,18	49	58,953.55	49	63,551,12	69	205,629.42	49	69,391,44	49	28,665,67	*	403,534.98	**	544,356,66
Number of Metered Customers (average for 2012 test year)								***************************************				1	į	21520		

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

rears for coll	reas to conection of retaining				
Deferred Incr plus II	Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	34	1,291,162.90		
SMFA Reven Plus S	SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	W	1,352,032,71		
Vet Deferred	Net Deferred Revenue Requirement	49	60,869.81	r	
SMDR	May 1, 2012 to April 30, 2012	77	0.24	ل	Match
Check: Forek	Check: Forecasted SMDR Revenues	47	61,977.60	7	

	Match	
_	J	_
605,226.46	2,34	604,281,60
49	ы	и
Incremental Revenue Requirement for 2012	SMIRR	Check: Forecasted SMIRR Revenues

Welland Hydro Smart Meter Application



Ontario Energy Board
Smart Meter Model

Welland Hydro-Electric System Corp.

Funding and Cost Recovery Mechanisms

The following table provides a summary of the three mechanisms for smart meter funding and cost recovery that the Board has established and that can be calculated by this model. The Smart Meter Funding Adder ("SMFA") was described in Guideline G-2008-0002. The Smart Meter Disposition Rider ("SMDR") and Smart Meter Incremental Revenue Requirement Rate Rider ("SMIRR") were defined by the Board in the Decision for PowerStream Inc.'s application for Smart Meter disposition [EB-2010-0209], October 1, 2010.

Title	Aerenym	Description
Smart Meter Funding Adder	SMFA	Mechanism to provide funding before and during smart meter deployment and acts to smooth the rate increases due to smart meter implementation. First implemented in rates for May 1, 2006. Initially established at a level of about \$0.26/month per metered customer for most distributors; some utilities have had unique SMFA rates due to initial Smart Meter Implementation Plans. Distributors could subsequently apply for a standard SMFA of \$1.00 per metered customer per month or a utility-specific SMFA. SMFA revenues are tracked in a sub-account of Account 1555. Upon disposition, the SMFA revenues and simple interest are used to offset the deferred historical revenue requirement of installed smart meters plus interest on the OM&A and amortization/depreciation expenses, with the variance recovered or refunded through the SMDR. In many 2011 EDR applications, the Board capped the SMFA at \$2.50/month per metered customer. Further, the Board indicated that the SMFA would cease by April 30, 2012.
Smart Meter Disposition Rider	SMDR	The SMDR recovers, over a specified time period, the variance between: 1) the deferred revenue requirement for the installed smart meters up to the time of disposition and interest on OM&A and depreciation/amortization expenses; and 2) the SMFA revenues collected and associated interest. The SMDR should be calculated as a fixed monthly charge. The capital (smart meter, AMI, systems hardware and software) and operating expenses are largely fixed costs and Invariant to a customer's demand, and hence should be recovered largely through fixed charges. In many cases the SMDR has been recovered on an equal basis from all metered customer classes, although more recent decisions have dealt with class-specific disposition riders. The distributor should determine and support its proposed allocation, based on principles of cost causality and practicality.
Smart Meter Incremental Revenue Requirement Rate Rider	SMIRR	When smart meter disposition occurs in a stand-alone application, a SMIRR is calculated as the proxy for the Incremental change in the distribution rates that would have occurred if the assets and operating expenses were incorporated into the rate base and the revenue requirement. The SMIRR is calculated as the annualized revenue requirement for the test year for the capital and operating costs for smart meters. The SMIRR should be calculated as a fixed monthly charge, similar to the SMDR. The allocation for the SMIRR should generally be the same as for the SMDR. The SMIRR ceases at the time of the utility's next cost of service application when smart meter capital and operating costs are explicitly incorporated into the rate base and revenue requirement.

Cost of Service Applications

The recovery of smart meter capital and operating costs is normally approved (or denied) following a review for prudence and disposition in a cost of service proceeding. A smart meter disposition rate rider (SMDR) is used to recover the residual revenue requirement that is made up of smart meter costs up to the time of disposition plus interest on OM&A and depreciation/amortization expenses, less amounts collected through the SMFA and associated interest. The approved gross book value and accumulated depreciation of installed smart meters are then added to rate base, and the test period operating expenses are added to OM&A. This ensures the recovery of the incremental revenue requirement on a going-forward basis through base rates. Further, smart meter capital and operating costs should be reflected in the cost allocation study to ensure an appropriate allocation of costs to the various customer classes.¹

If a distributor seeks approval for costs related to 100% smart meter deployment, any capital and operating costs for smart meters that are installed beyond the (2012) test year (i.e. for new customers) should not be recorded in Accounts 1555 and 1556.

The Board considers that rates will be fully compensatory when smart meter costs are either incorporated into base rates or recovered by means of the SMIRR. When smart meters are installed for new customers, these customers will pay rates that reflect the recovery of smart meter costs. The costs of these additional smart meter costs should be reflected in normal capital and operating accounts, akin to other normal distribution assets and costs.

Stand-alone Applications

As per Chapter 3 of the Filing Requirements for Transmission and Distribution Applications, issued June 22, 2011, the Board expects those distributors that are scheduled to remain on IRM to file a stand-alone application with the Board seeking final approval for smart meter related costs. When rates are adjusted in a stand-alone application, there is no re-evaluation of rate base or of the revenue requirement for the purpose of setting distribution rates. Where the Board approves smart meter capital and operating costs outside of a cost of service proceeding, a SMDR is still required. In addition, a smart meter incremental revenue requirement rate rider (SMIRR) is established to recover the prospective annualized incremental revenue requirement for the approved smart meters, until the distributor's next cost of service application. The SMIRR continues until the effective date of the distributor's next cost of service rate order, at which time assets and costs are incorporated into the rate base and revenue requirement and recovered on a going-forward basis through base rates.

As in a cost of service application, when smart meter costs are approved for 100% deployment, capital and operating costs for smart meters on a going-forward basis are no longer recorded in Accounts 1555 and 1556; instead the costs are recorded in the applicable capital or operating expense account (e.g. Account 1860 – Meters for smart meter capital assets).

Evidence to be Filed in Support of Smart Meter Cost Recovery in a Cost of Service or Stand-Alone Application

The purpose of this model is to calculate a smart meter revenue requirement from a distributor's capital and OM&A costs, and to provide one methodology for the determination of associated riders and/or adders. In addition to filling this model, distributors must provide in any application for cost recovery detailed descriptions of all costs incurred. The onus is on the distributor to support its case, and the distributor should provide any additional information necessary to understand the distributor's costs in light of its circumstances. 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. As an example, meter reading expenses may be reduced with the activation of remote meter reading through the AMI network for residential and small general service customers.

When applying for the recovery of smart meter costs, a distributor should ensure that historical cost information has been audited including the smart meter-related deferral account balances up to the distributor's last Audited Financial Statements. A distributor may also include historical costs that are not audited and estimated costs, corresponding to a stub period or to a forecast for the test rate year. The Board expects that the majority (i.e. 90% or more) of costs for which the distributor is seeking recovery will be audited. In all cases, the Board expects that the distributor will document and explain any differences between unaudited or forecasted amounts and audited costs.

Costs Beyond Minimum Functionality

While authorized smart meter deployment must meet the requirements for minimum functionality, a distributor may incur costs that are beyond the "minimum functionality". To date, the Board has reviewed three types of costs that are "beyond minimum functionality":

- A. Costs for technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06:
- B. Costs for deployment of smart meters to customers other than residential and small general service (i.e. Residential and GS < 50 kW customers); and
- C, Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc.

Costs beyond minimum functionality for which recovery is sought must be recorded in the Smart Meter Costs tab of the model in these three categories, and appropriate supporting evidence for each cost type must be provided in the application. Further comments on each of these cost types are provided below.

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

O.Reg. 425/06 specifies that costs that exceed minimum functionality may be approved by the Board for recovery. In deciding whether technical capabilities of installed smart meters or associated communications or other infrastructure that exceed minimum functionality are recoverable, the Board will consider the benefits of the added technical features and the prudence of these costs. Any distributor seeking recovery for these additional capabilities should provide documentation of the additional technical capabilities, the reasons for them and a detailed cost/benefit analysis.

Technical functionality beyond minimum functionality was dealt with by the Board with respect to Hydro One Networks' 2008 cost of service application, regarding the costs and benefits of super-capacitors in the smart meters and AMI collectors. In its Decision and Order on that application (EB-2007-0681), issued December 18, 2008, the Board approved the recovery of the incremental costs.

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

O.Reg. 425/06 defines smart meter deployment as pertaining to residential and small general service customers. The Functional Specification sets the required minimum level of functionality for the AMI to be "for residential and small general service consumers where the metering of demand is not required." As such, minimum functionality has been defined as customers in the residential and general service ("GS") < 50 kW classes.

While some customers in other metered customer classes (GS > 50 kW, Intermediate, Large Use) have interval meters that measure peak demand in a time interval, some distributors may have customers in these classes that have conventional meters and are not eligible for the regulated price plan ("RPP") and therefore are subject to the weighted average spot market price.

A distributor may, as part of its smart meter deployment program, decide to install smart meters for these customers. This could be on the basis that these customers will have higher demand than will typical residential and GS < 50 kW customers, and providing them with better information on how much and when they consume electricity may provide these customers with opportunities for more energy conservation and load shifting. While such meter conversions may generally appear to be logical, they are outside of the regulation and hence are beyond minimum functionality. In other instances, a distributor may convert the meters of interval-metered customers upon repair or re-sealing to "smart" meters that communicate using the AMI infrastructure that the distributor has installed, replacing the existing communications systems for these meters. Again, as these are for meters for customers other than residential and small general service, they are outside of the regulation and hence beyond minimum functionality.

The Board, as part of the Combined Proceeding (EB-2007-0063, December 13, 2007), approved cost recovery for meter conversions for GS > 50 kW customers for both Toronto Hydro Electric System Limited ("Toronto Hydro") and Hydro Ottawa Limited, However the Board stated:

"The Board is explicitly not finding that the costs associated with these meters fall into the minimum functionality costs. The Board approval of these costs is ancillary to the smart meter decision."

With respect to Toronto Hydro, the Board subsequently approved the recovery of these costs for smart meter installation/conversion for GS > 50 kW customers in Toronto Hydro's 2008-2009 [EB-2007-0681] and 2011 [EB-2010-0142] cost of service rate applications.

Some distributors may be doing "smart meter" conversions for General Service > 50 kW customers upon repair or resealing to enable meter data collection through the AMI infrastructure. While it is recognized that these smart meter installations and conversions are "beyond minimum functionality", a distributor may apply for the recovery of such costs. The application should document the nature, the justification and the cost per meter separately from those for the residential and GS < 50 kW customers.

C. Costs for TOU rate implementation, CIS system upgrades, web presentation, etc.

Costs for CIS systems, TOU rate implementation, etc., are beyond minimum functionality as established by the Board in the Combined Proceeding. However, such costs may be recoverable. In its application, a distributor should show how these costs are required for its smart meter program. Further, a distributor should document how these costs are incremental. For example, if a distributor has a normal budget for maintenance of its billing and CIS systems, costs claimed for system maintenance and upgrades must be shown to be incremental to the normal budget that is already recovered in base rates.

All costs beyond minimum functionality should be clearly identified and supported. Costs that are for meter data functions that will be the responsibility of the Smart Metering Entity will not be recoverable, unless already allowed for as per O.Reg. 426/06. Costs for other matters such as CIS changes or TOU bill presentment may be recoverable, but the distributor will have to support these costs and will have to demonstrate how they are required for the smart meter deployment program and that they are incremental to the distributor's normal operating costs.

Cost recovery for ongoing costs of the Smart Metering Entity should not be included in any smart meter cost recovery application, until such time as the Board establishes a cost recovery mechanism. To date, the Board has disallowed requests for either cost recovery or the establishment of a deferral account to track these costs.

Cost Allocation

The model does not deal with allocations between customer rate classes. In calculating the SMDR and SMIRR, the Board has approved, in some applications, the recovery of amounts from certain applicable customer classes based on the availability of detailed data at the customer class level and on principles of cost causality.

If a distributor does not have sufficient information to support an allocation to the applicable classes, a distributor may choose to propose a recovery on the basis of all metered customers resulting In one uniform rate rider for all metered customer classes. The model calculates the SMFA, SMIRR and SMDR on this basis.

Whichever method is adopted, the Board is of the view that any cost allocation approach should be consistent between the SMDR and the SMIRR when disposition is sought in a stand-alone application. The Board will entertain proposals supported by analysis for SMDRs and SMIRRs based on principles of cost causality and where the distributor has the necessary historical and forecasted data. Distributors should refer to the PowerStream application considered under EB-2010-0209 for a practical approach. However, if a distributor decides to adopt this approach in its application, it will have to adjust it to its own circumstances. Further, adoption of this approach will not predetermine its approval by the Board in an individual application.

Stranded Meters

The model does not address the recovery of stranded meter costs. Distributors filing Cost of Service applications should refer to Chapter 2 of the Filing Requirements for Transmission and Distribution Applications, issued June 22, 2011 (Section 2.5.1.5).

While it would be preferable, conceptually, to also deal with stranded meter costs in a non-cost of service application, the Board recognizes that practical difficulties would arise since there is no restatement of rate base and rates. The Board therefore expects that stranded meter costs will be left in rate base until the distributor's next cost of service application.

The Stranded Meter Rate Rider to recover the residual Net Book Value of stranded (i.e. replaced conventional) meters is separate from any SMDR or SMIRR. In other words, a distributor must calculate (and should show its derivation) the Stranded Meter Rate Rider on a stand-alone basis.

¹ See Section 2.10 – Cost Allocation of Chapter 2 of the Filing Requirements for Transmission and Distribution Applications, issued June 22, 2011.

² For example, if a distributor has deployed smart meters to classes other than Residential and GS < 50 kW, it will have to reflect the additional classes in any cost allocation proposal.

Welland Hydro Electric System Smart Meter OMA Incremental Costs

	Full Year	YTD Sep	Ful Year	2011
	Actual	Actual	Forecast	Versus
	2010	2011	2011	2010
5315 Customer Billing-Supplies	\$29,751	\$28,640	\$38,187	
5315 Customer Billing-Office Supplies	4,893	15,484	20,645	
5315 Customer Billing-Postage	49,166	76,105	101,473	
5320 Collection-Postage	27,847	24,300	32,400	
Sub Total Billing Costs	111,657	144,529	192,705	81,048
· ·				
TS Meter Reading	2,400	5,363	6,563	
Manual Meter Reading Costs	88,839	28,782	37,386	
Electronic Meter Reading Costs	0	7,441	10,741	
5310 Meters-Meter Reads	91,239	41,586	54,690	-36,549
Total Residential & GS<50 21,520				
Less GS<50 Previous Mthly 1,692				
Less Residential Previous Mthly1,477				
Bi Monthly Bills 18,35				
Avg Bills Per Mth Bi-Monthly 9,176	3			
Additional Bills Per Month 9,176	3			
		2011	2012	
Additional Invoice Cost				
Cost Number Cost/Inv Add/Mth		Add/Year	Add/Year	
3855 160000 0.024 \$22°	1	\$2,653	\$2,653	
A PC - Int Earling Cont				
Additional Envelope Cost		Λ al al (\)/ a = "	۸ ما ما ۸ / ۵ م م	
Cost Number Cost/Inv Add/Mth		Add/Year	Add/Year	
3525 150000 0.024 \$216	•	\$2,587	\$2,587	
Additional Tapar Bill Brint				
Additional Toner Bill Print Cost Number Cost/Inv Add/Mth		Add/Year	Add/Year	
			\$3,639	
\$408 12345 0.033 \$303	•	\$3,639	\$3,039	
Additional Delivery Cost				
Add/Mth		Add/Year	Add/Year	
Hand 4152 0.35 \$1,453	2	\$17,438	\$17,438	
Mailed 5024 0.56 \$2,813		33,761	33,761	
Total Change In Delivery Cost		\$51,200	\$51,200	
rotal ollarige in Bollvery Goot		Ψο 1,200	ΨΟ1,200	
Sub-Total Billings Costs		\$60,079	\$60,079	
Out Forming Court		T - 545005		
Change in Meter Reading Cost				
Manually Read Meters-All Meters		-\$51,453	-\$88,839	
Electronic Meter Reads-Residential Smart Me	eters	10,741	0	
Read GS>50 Non-Interval Meters Included Al	oove	0	4,800	
Sub-Total Meter Reading Costs		-\$40,712	-\$84,039	
Additional Billing Personnel (75% of Costs)				
Start Date December 1, 2011		\$5,076	\$60,921	
Total Incremental Cost Change		\$24,443	\$36,961	

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Estimate

Loud+Clear 20 Court Street St. Catharines, Ontario L2R 4R4 Canada Phone: 905-682-8933

Fax: 905-682-3951

Welland Hydro Electric Corp. Perry Orosz PO Box 280 950 East Main Street Welland, Ontario L3B 5P6 Canada

Date:

10/12/2011

Delivery Date:

10/12/2011

Product Name:

Project Name:

Time-of-Use Launch and Marketing

Project Number:

11-WELH-0061

Estimate Name:

Time-of-Use Launch and Marketing

Estimate Description:

Time of Use Launch Plan - Budget

Planning					\$360.00
Schedule and Budget Development	and Approval				\$360.00
Customer Direct Mail Packages					\$2,490.00
Letter/Envelope Design and Approv	al				\$660.00
Cling design, approval print and de	livery				\$630.00
Finalize package spec and drop dat	es with mailhouse				\$660.00
Data files verification and digital file	es delivery				\$210.00
Package processing and delivery					\$330.00
Media and Public Relations					\$3,645.00
CSR Training Session and presentat	ion				\$960.00
Issues Notes Production and Fulfillm	nent	E.			\$555.00
Public Open House - Coordination a	and Fullfilment				\$930.00
Press Releases development and ap	proval				\$300.00
Media relations-issue releases, follo	w ups and interviews	i			\$900.00
Advertising					\$1,200.00
Media plan development, approval	and booking				\$300.00
TOU launch ads design and approve	al				\$480.00
Open House notice ad design and a	approval				\$420.00
Digital and Interactive					\$1,560.00
Website updates and additions					\$1,080.00
LCD display notices development ar	nd approval				\$480.00
Expenses			Qty	Unit Amount	Total
Postage-Addressed Lettermail			23,000.00	0.616	\$14,168.00 *
Printing - Envelopes(#10 Window)			23,000.00	0.091	\$2,093.00 *
Mailing Services-Processing			23,000.00	0.052	\$1,196.00 *
Printing-Letters from supplied PDF			23,000.00	0.312	\$7,176.00 *
Printing-Appliance Cling/TOU Pron	no		23,000.00	0.234	\$5,382.00 *

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Print Media-TOU launch ads	3.00	705.900	\$2,117.70 *
Print Media-Open House ads	2.00	780.000	\$1,560.00 *
		-	\$33,692.70
		Subtotal	\$42,947.70
		HST	\$5,583.20
		Total	\$48,530.90
Approved By			

Welland Hydro Smart Meter - Revenue Requirement Rate Rider

A) Based on Estimated Capital Split - Smart Meters

	Total	Residential Class	%	GS<50 Class	%
Capital Expenditures Metered Customers	\$3,037,636 21,520	\$2,577,949 19,828	84.9% 92.1%	\$459,687 1,692	15.1% 7.9%
Short Term Interest Long Term Interest Return on Equity Amortization	\$1,327 106,451 79,928 220,454 \$408,160	\$346,393	84.9%	\$61,767	15.1%
OM & A Costs	\$176,775	\$162,876	92.1%	\$13,899	7.9%
Revenue Before PILS	\$584,935	\$509,269	87.1%	\$75,666	12.9%
Gross-Up PILS	\$20,292	\$17,667	87.1%	\$2,625	12.9%
Revenue Requirement	\$605,227	\$526,936		\$78,291	
Revenue Requirement Rate Rider		<u>\$2.21</u>		<u>\$3.86</u>	

B) Based on 2006 Cost Allocation Model

	Total	Residential Class	%	GS<50 Class	%
Allocators CWMC (Account 1860) Number of Metered Customers Revenue Requirement before PILS	\$1,721,315 21,520 \$4,739,762	\$1,156,420 19,828 \$3,757,820	67.2% 92.1% 79.3%	\$564,895 1,692 \$981,942	32.8% 7.9% 20.7%
Short Term Interest Long Term Interest Return on Equity Amortization	\$1,327 106,451 79,928 220,454 \$408,160	\$274,212	67.2%	\$133,948	32.8%
OM & A Costs	\$176,775	\$162,876	92.1%	\$13,899	7.9%
Revenue Before PILS	\$584,935	\$437,088	74.7%	\$147,847	25.3%
Gross-Up PILS	\$20,292	\$16,088	79.3%	\$4,204	20.7%
Revenue Requirement	\$605,227	\$453,176		\$152,051	
Revenue Requirement Rate Rider		<u>\$1.90</u>		<u>\$7.49</u>	

Welland Hydro Smart Meter Application

Welland Hydro - Capital Cost By Customer Class

	Total Units	Total Cost	Residential Units	Residential Cost	GS<50 Units	GS<50 Cost
1.1.1 Meters						
Non Three Phase	20,872	\$1,950,512	19,920	\$1,861,547	952	\$88,965
Three Phase	1,020	414,256	256	103,970	764	310,286
1.1.2 Installation						
Non Three Phase Labour	20,872	173,850	19,920	165,920	952	7,930
Three Phase Labour	1,020	19,967	256	5,011	764	14,956
Adaptors-All Meters	21,892	64,035	20,176	59,016	1,716	5,019
Meter Rings-All Meters	21,892	98,040	20,176	90,355	1,716	7,685
Plastic Padlock-All Meters	21,892	3,873	20,176	3,569	1,716	304
1.1.3a Workforce Automation	1					
Hardware-All Meters	21,892	57,633	20,176	53,115	1,716	4,518
1.1.3b Workforce Automation	<u>1</u>					
Software-All Meters	21,892	20,360	20,176	18,764	1,716	1,596
1.2 AMRC						
Total Cost-All Meters	21,892	200,199	20,176	184,506	1,716	15,693
1.5 Other AMI Costs						
Total Cost-All Meters	21,892	34,911	20,176	32,175	1,716	2,736
Total Capital Casts	21,892	\$3,037,636	20,176	\$2,577,949	1,716	\$459,687
Total Capital Costs	21,002		20,170	\$127.77	.,,	\$267.88
Average Capital Cost/Meter		\$138.76		Ψ141.11		Ψ201,00

Welland Hydro Smart Meter - Disposition Rate Rider

Based on Estimated Capital Split - Smart Meters

	\$	Residential Class	%	GS<50 Class	%
2007 Capital Spending 2008 Capital Spending	\$0 \$0	\$0 \$0		\$0 \$0	
2009 Capital Spending	\$2,409,322	\$2,311,772	96.0%	\$97,550	4.0%
2010 Capital Spending	\$78,685	\$52,226	66.4%	\$26,459	33.6%
2010 Cumulative	\$2,488,007	\$2,363,998	95.0%	\$124,009	5.0%
2011 Capital Spending	\$549,629	\$213,951	38.9%	\$335,678	61.1%
2011 Cumulative	\$3,037,636	\$2,577,949	84.9%	\$459,687	15.1%
Matarad Customero	24 520	19,828	92.1%	1,692	7.9%
Metered Customers	21,520	19,020	92.170	1,092	7.970
Return & Amortization 2007-2009	\$174,649	\$167,578	96.0%	\$7,071	4.0%
Return & Amortization 2010	\$346,487	\$329,217	95.0%	\$17,270	5.0%
Return & Amortization 2011	\$381,669	\$323,911	84.9%	\$57,758	15.1%
	\$902,805	\$820,706	90.9%	\$82,099	9.1%
OM & A Costs & Interest 2007-2011	\$358,266	\$330,098	92.1%	\$28,168	7.9%
Revenue Before PILS 2007-2011	\$1,261,071	\$1,150,803	91.3%	\$110,268	8.7%
Gross-Up PILS 2007-2009	\$6,734	\$6,461	96.0%	\$273	4.0%
Gross-Up PILS 2010	\$10,008	\$9,509	95.0%	\$499	5.0%
Gross-Up PILS 2011	\$13,350	\$11,330	84.9%	\$2,020	15.1%
	\$30,092	\$27,461	91.3%	\$2,631	8.7%
Revenue Requirement 2007-2011	\$1,291,163	\$1,178,264	91.3%	\$112,899	8.7%
Smart Meter Funding Adder Revenue & Carrying Costs 2006-2012	\$1,352,033	\$1,244,676	92.1%	\$107,357	7.9%
Smart Meter True Up Amount	-\$60,870	-\$66,412		\$5,542	
Disposition Rate Rider		<u>-\$0.28</u>		<u>\$0.27</u>	

Welland Hydro Smart Meter - Disposition Rate Rider

Based on 2006 Cost Allocation

	\$	Residential Class	%	GS<50 Class	%
Allocators	Ψ	- 01466			
CWMC (Account 1860)	\$1,721,315	\$1,156,420	67.2%	\$564,895	32.8%
Metered Customers	21,520	19,828	92.1%	1,692	7.9%
Revenue Requirement before PILS	\$4,739,762	\$3,757,820	79.3%	981,942	20.7%
Return & Amortization 2007-2009	\$174,649	\$117,333	67.2%	\$57,316	32.8%
Return & Amortization 2007-2009	\$346,487	\$232,778	67.2%	\$113,709	32.8%
Return & Amortization 2011	\$381,669	\$256,414	67.2%	\$125,255	32.8%
Notalli d'Alliottization 2011	\$902,805	\$606,526	67.2%	\$296,279	32.8%
OM & A Costs & Interest 2007-2011	\$358,266	\$330,098	92.1%	\$28,168	7.9%
Revenue Before PILS 2007-2011	\$1,261,071	\$936,623	74.3%	\$324,448	25.7%
Gross-Up PILS 2007-2009	\$6,734	\$5,339	79.3%	\$1,395	20.7%
Gross-Up PILS 2010	\$10,008	\$7,935	79.3%	\$2,073	20.7%
Gross-Up PILS 2011	\$13,350	\$10,584	79.3%	\$2,766	20.7%
	\$30,092	\$23,858	79.3%	\$6,234	20.7%
Revenue Requirement 2007-2011	\$1,291,163	\$960,481	74.4%	\$330,682	25.6%
Smart Meter Funding Adder Revenue & Carrying Costs 2006-2012	\$1,352,033	\$1,005,761	74.4%	\$346,272	25.6%
Smart Meter True Up Amount	-\$60,870	-\$45,280		-\$15,590	
Disposition Rate Rider		<u>-\$0.19</u>		<u>-\$0.77</u>	