

November 2, 2012

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

**Re: Final Disposition of Smart Meter Deferral/Variance Accounts 1555 & 1556
Draft Rate Order
Rate Zones: (i) Chatham-Kent, (ii) Strathroy, Mount Brydges & Parkhill, (iii) Dutton
and (iv) Newbury
Board File No.: EB-2012-0289**

Dear Ms. Walli,

On July 5, 2012, Entegrus Powerlines Inc. ("EPI") filed an application with the Ontario Energy Board (the "Board") seeking approval for changes to the rates that EPI charges for electricity distribution, to be effective November 1, 2012. EPI serves sixteen non-contiguous communities of the former Chatham-Kent Hydro Inc. ("CKH") and Middlesex Power Distribution Corporation ("MPDC"), maintaining four sets of rates.

On November 1, 2012, the Board issued its Decision and Order in the above mentioned file directing EPI to forward a draft Rate Order attaching a proposed Tariff of Rates and Charges reflecting the Board's findings in the Decision. Accordingly, EPI has updated the necessary Smart Meter Models and prepared proposed Tariff Sheets as noted below.

EPI has updated the 11 previously filed Smart Meter Models (the "Models") to correct the cost of service parameters in the General Service > 50 kW Model for SMP¹ and to remove from all Models any savings or efficiencies². The updated models are attached as follows:

- Chatham-Kent ("CK") Residential – Attachment A
- CK GS<50 kW – Attachment B
- CK GS>50 kW – Attachment C
- Strathroy, Mount Bydges & Parkhill ("SMP") Residential – Attachment D
- SMP GS<50 kW – Attachment E
- SMP GS>50 kW – Attachment F
- Dutton, Residential – Attachment G
- Dutton GS<50 kW – Attachment H
- Newbury Residential – Attachment I

¹ Board Findings, Decision and Order, November 1, 2012, Page 5

² Board Findings, Decision and Order, November 1, 2012, Page 7

- Newbury GS<50 kW – Attachment J
- Newbury GS>50 kW – Attachment K

As directed by the Board, EPI has provided Draft Tariff of Rates and Charges as follows:

- Chatham-Kent – Attachment L
- Strathroy, Mount Brydges & Parkhill – Attachment M
- Dutton – Attachment N
- Newbury – Attachment O

If you have any questions, please do not hesitate to contact me at (519) 352-6300, extension 243 or via email at regulatory@entegrus.com.

Regards,

[Original Signed By]

Andrya Eagen
Senior Regulatory Specialist
Phone: 519-352-6300 Ext 243
Email: andrya.eagen@entegrus.com

cc: Dan Charron, President
Chris Cowell, Chief Financial and Regulatory Officer
David Ferguson, Director of Regulatory and Administration
James Sidlofsky, Partner, Borden Ladner Gervais LLP
Shelley Grice, VECC

Entegrus Powerlines Inc.

SM Final Disposition – Draft Rate Order

Board File No.: EB-2012-0289

Date Filed: November 2, 2012

Attachment A
Smart Meter Model
CK Residential



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Fort Albany Power Corporation
Fort Frances Power Corporation

Application Contact Information

Name: Andrya Eagen

Title: Senior Regulatory Specialist

Phone Number: 519-352-6300 Ext 243

Email Address: andryaeagen@ckenergy.com

We are applying for rates effective: November 1, 2012

Last COS Re-based Year 2010

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.



Chatham-Kent Hydro Inc.

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter Capital Cost and Operational Expense Data								
Smart Meter Installation Plan								
Actual/Planned number of Smart Meters installed during the Calendar Year								
Residential				673	1,023			1696
General Service < 50 kW								0
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	0	673	1,023	0	0	1696
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	0.00%	39.68%	100.00%	0.00%	100.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed								0
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	0	673	1,023	0	0	1696
1 Capital Costs								
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type								
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter			62,647	95,227	0		\$ 157,875
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter			18,655	28,357	0		\$ 47,011
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
Total Advanced Metering Communications Devices (AMCD)				\$ 81,302	\$ 123,584	\$ -	\$ -	\$ 204,886
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
Asset Type								
1.2.1 Collectors								\$ -
1.2.2 Repeaters (may include radio licences, etc.)	Smart Meter			3,268	4,968	0		\$ 8,236
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)								\$ -
Total Advanced Metering Regional Collector (AMRC) (includes LAN)				\$ 3,268	\$ 4,968	\$ -	\$ -	\$ 8,236
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)								
Asset Type								
1.3.1 Computer Hardware	Computer Hardware			-1,856	0	0		\$ -1,856
1.3.2 Computer Software	Computer Software			-652	0	0		\$ -652
1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.)								\$ -
Total Advanced Metering Control Computer (AMCC)				\$ -2,508	\$ -	\$ -	\$ -	\$ -2,508
1.4 WIDE AREA NETWORK (WAN)								
Asset Type								
1.4.1 Activation Fees	Applications Software			1,120	1,703	0		\$ 2,823
Total Wide Area Network (WAN)				\$ 1,120	\$ 1,703	\$ -	\$ -	\$ 2,823
1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY								
Asset Type								
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				\$ 83,183	\$ 130,254	\$ -	\$ -	\$ 213,437
1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY								
Asset Type								
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06	Computer Software							\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Applications Software							\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDMP, etc.								\$ -
Total Capital Costs Beyond Minimum Functionality				\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter Capital Costs				\$ 83,183	\$ 130,254	\$ -	\$ -	\$ 213,437
2 OM&A Expenses								
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type								
2.1.1 Maintenance (may include meter verification costs, etc.)				38,983	31,319	48,157	0	\$ 118,459
2.1.2 Other (please specify)								\$ -
Total Incremental AMCD OM&A Costs				\$ 38,983	\$ 31,319	\$ 48,157	\$ -	\$ 118,459



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

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

Smart Meter Capital Cost and Operational Expense Data

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

2.2.1 Maintenance

2.2.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

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

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

2.3.2 Other (please specify)

Total Incremental AMCC OM&A Costs

2.4 WIDE AREA NETWORK (WAN)

2.4.1 WAN Maintenance

2.4.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.5 OTHER AMI OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.5.1 Business Process Redesign

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

2.5.3 Program Management

2.5.4 Change Management (may include training, etc.)

2.5.5 Administration Costs

2.5.6 Other AM Expenses

(please specify)

Total Other AMI OM&A Costs Related to Minimum Functionality

TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY

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

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

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

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

Total OM&A Costs Beyond Minimum Functionality

Total Smart Meter OM&A Costs

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				4,441	4,660	3,122	2,732	\$ 14,955
				17,293	12,967	8,423	62,023	\$ 100,705
								\$ -
	\$ -	\$ -	\$ -	\$ 21,734	\$ 17,626	\$ 11,545	\$ 64,754	\$ 115,659
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
								\$ -
								\$ -
								\$ -
				585	0	0	0	\$ 585
				6,137	1,928	4,187	0	\$ 12,252
	\$ -	\$ -	\$ -	\$ 6,722	\$ 1,928	\$ 4,187	\$ -	\$ 12,837
	\$ -	\$ -	\$ -	\$ 67,439	\$ 50,873	\$ 63,888	\$ 64,754	\$ 246,955
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual		
								\$ -
								\$ -
				5,788	239,549	187,278	0	\$ 432,614
	\$ -	\$ -	\$ -	\$ 5,788	\$ 239,549	\$ 187,278	\$ -	\$ 432,614
	\$ -	\$ -	\$ -	\$ 73,227	\$ 290,422	\$ 251,166	\$ 64,754	\$ 679,569

3 Aggregate Smart Meter Costs by Category

3.1

Capital

3.1.1 Smart Meter

3.1.2 Computer Hardware

3.1.3 Computer Software

3.1.4 Tools & Equipment

3.1.5 Other Equipment

3.1.6 Applications Software

3.1.7 Total Capital Costs

3.2 OM&A Costs

3.2.1 Total OM&A Costs

\$ -	\$ -	\$ -	\$ 84,570	\$ 128,552	\$ -	\$ -	\$ 213,122
\$ -	\$ -	\$ -	\$ 1,856	\$ -	\$ -	\$ -	\$ 1,856
\$ -	\$ -	\$ -	\$ 652	\$ -	\$ -	\$ -	\$ 652
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ 1,120	\$ 1,703	\$ -	\$ -	\$ 2,823
\$ -	\$ -	\$ -	\$ 83,183	\$ 130,254	\$ -	\$ -	\$ 213,437
\$ -	\$ -	\$ -	\$ 73,227	\$ 290,422	\$ 251,166	\$ 64,754	\$ 679,569



Ontario Energy Board

Smart Meter Model

Chatham-Kent Hydro Inc.

	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure¹							
Deemed Short-term Debt Capitalization					4.0%	4.0%	4.0%
Deemed Long-term Debt Capitalization	50.0%	50.0%	53.3%	56.7%	56.0%	56.0%	56.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%
Preferred Shares	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate					2.07%	2.07%	2.07%
Long-term Debt Rate (actual/embedded/deemed) ²	7.04%	7.04%	7.04%	7.04%	5.87%	5.87%	5.87%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.85%	9.85%	9.85%
Return on Preferred Shares							
WACC	8.02%	8.02%	7.96%	7.89%	7.31%	7.31%	7.31%
Working Capital Allowance							
Working Capital Allowance Rate (% of the sum of Cost of Power + controllable expenses)	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates (expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	3	3	3	3	3	3	3
- rate (%)	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates							
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%

Assumptions

¹ Planned smart meter installations occur evenly throughout the year.

² Fiscal calendar year (January 1 to December 31) used.

³ Amortization is done on a straight line basis and has the "half-year" rule applied.



	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 84,570	\$ 213,122	\$ 213,122
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 84,570	\$ 128,552	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 84,570	\$ 213,122	\$ 213,122	\$ 213,122
Accumulated Depreciation							
Opening Balance		\$ -	\$ -	\$ -	\$ 2,819	\$ 12,742	\$ 26,950
Amortization expense during year	\$ -	\$ -	\$ -	\$ 2,819	\$ 9,923	\$ 14,208	\$ 14,208
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 2,819	\$ 12,742	\$ 26,950	\$ 41,158
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 81,751	\$ 200,380	\$ 186,172
Closing Balance	\$ -	\$ -	\$ -	\$ 81,751	\$ 200,380	\$ 186,172	\$ 171,963
Average Net Book Value	\$ -	\$ -	\$ -	\$ 40,876	\$ 141,065	\$ 193,276	\$ 179,068
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 1,856	\$ 1,856	\$ 1,856
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 1,856	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 1,856	\$ 1,856	\$ 1,856	\$ 1,856
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 186	\$ 1,856	\$ 2,227
Amortization expense during year	\$ -	\$ -	\$ -	\$ 186	\$ 1,670	\$ 371	\$ 371
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 186	\$ 1,856	\$ 2,227	\$ 2,598
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 1,670	\$ -	\$ 371
Closing Balance	\$ -	\$ -	\$ -	\$ 1,670	\$ -	\$ 371	\$ 742
Average Net Book Value	\$ -	\$ -	\$ -	\$ 835	\$ 835	\$ 186	\$ 557
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 468	\$ 2,171	\$ 2,171
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 468	\$ 1,703	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 468	\$ 2,171	\$ 2,171	\$ 2,171
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 78	\$ 518	\$ 1,241
Amortization expense during year	\$ -	\$ -	\$ -	\$ 78	\$ 440	\$ 724	\$ 724
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 78	\$ 518	\$ 1,241	\$ 1,965
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 390	\$ 1,653	\$ 929
Closing Balance	\$ -	\$ -	\$ -	\$ 390	\$ 1,653	\$ 929	\$ 206
Average Net Book Value	\$ -	\$ -	\$ -	\$ 195	\$ 1,022	\$ 1,291	\$ 568
Net Fixed Assets - Tools and Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Other Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Ontario Energy Board

Smart Meter Model

Chatham-Kent Hydro Inc.

Average Net Fixed Asset Values (from Sheet 4)

	2006	2007	2008	2009	2010	2011	2012 and Later
Smart Meters	\$ -	\$ -	\$ -	\$ 40,876	\$ 141,065	\$ 193,276	\$ 179,068
Computer Hardware	\$ -	\$ -	\$ -	\$ 835	\$ 835	\$ 186	\$ 557
Computer Software	\$ -	\$ -	\$ -	\$ 195	\$ 1,022	\$ 1,291	\$ 568
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ -	\$ 40,236	\$ 141,252	\$ 194,752	\$ 180,192

Working Capital

Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ -	\$ 73,227	\$ 290,422	\$ 251,166	\$ 64,754
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ -	\$ 10,984	\$ 43,563	\$ 37,675	\$ 9,713

Incremental Smart Meter Rate Base

	\$ -	\$ -	\$ -	\$ 51,220	\$ 184,815	\$ 232,427	\$ 189,905
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Return on Rate Base

Capital Structure

Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 7,393	\$ 9,297	\$ 7,596
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 29,041	\$ 103,497	\$ 130,159	\$ 106,347
Equity	\$ -	\$ -	\$ -	\$ 22,178	\$ 73,926	\$ 92,971	\$ 75,962
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ -	\$ 51,220	\$ 184,815	\$ 232,427	\$ 189,905

Return on

Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 153	\$ 192	\$ 157
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 2,045	\$ 6,075	\$ 7,640	\$ 6,243
Equity	\$ -	\$ -	\$ -	\$ 1,996	\$ 7,282	\$ 9,158	\$ 7,482
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ -	\$ 4,041	\$ 13,510	\$ 16,990	\$ 13,882

Operating Expenses

	\$ -	\$ -	\$ -	\$ 73,227	\$ 290,422	\$ 251,166	\$ 64,754
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Amortization Expenses (from Sheet 4)

Smart Meters	\$ -	\$ -	\$ -	\$ 2,819	\$ 9,923	\$ 14,208	\$ 14,208
Computer Hardware	\$ -	\$ -	\$ -	\$ 186	\$ 1,670	\$ 371	\$ 371
Computer Software	\$ -	\$ -	\$ -	\$ 78	\$ 440	\$ 724	\$ 724
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ -	\$ 2,711	\$ 8,693	\$ 14,561	\$ 14,561

Incremental Revenue Requirement before Taxes/PILs

	\$ -	\$ -	\$ -	\$ 79,979	\$ 312,625	\$ 282,717	\$ 93,197
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Calculation of Taxable Income

Incremental Operating Expenses	\$ -	\$ -	\$ -	\$ 73,227	\$ 290,422	\$ 251,166	\$ 64,754
Amortization Expense	\$ -	\$ -	\$ -	\$ 2,711	\$ 8,693	\$ 14,561	\$ 14,561
Interest Expense	\$ -	\$ -	\$ -	\$ 2,045	\$ 6,228	\$ 7,833	\$ 6,400
Net Income for Taxes/PILs	\$ -	\$ -	\$ -	\$ 1,996	\$ 7,282	\$ 9,158	\$ 7,482

Grossed-up Taxes/PILs (from Sheet 7)

	\$ -	\$ -	\$ -	\$ 513.14	\$ 2,047.68	\$ 3,007.84	\$ 2,755.55
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Revenue Requirement, including Grossed-up Taxes/PILs

	\$ -	\$ -	\$ -	\$ 80,492	\$ 314,673	\$ 285,725	\$ 95,953
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Ontario Energy Board

Smart Meter Model

Chatham-Kent Hydro Inc.

For PILs Calculation

UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 81,187.32	\$ 198,101.89	\$ 182,253.74
Capital Additions	\$ -	\$ -	\$ -	\$ 84,570.13	\$ 128,551.62	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 84,570.13	\$ 209,738.94	\$ 198,101.89	\$ 182,253.74
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 42,285.06	\$ 64,275.81	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 42,285.06	\$ 145,463.13	\$ 198,101.89	\$ 182,253.74
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 3,382.81	\$ 11,637.05	\$ 15,848.15	\$ 14,580.30
Closing UCC	\$ -	\$ -	\$ -	\$ 81,187.32	\$ 198,101.89	\$ 182,253.74	\$ 167,673.44

UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 2,507.58	\$ 1,128.41	\$ 507.78
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 1,855.70	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ 651.88	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 2,507.58	\$ 2,507.58	\$ 1,128.41	\$ 507.78
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ 2,507.58	\$ 1,128.41	\$ 507.78
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ -	\$ 1,379.17	\$ 620.63	\$ 279.28
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
INCOME TAX							
Net Income	\$ -	\$ -	\$ -	\$ 1,996.03	\$ 7,281.72	\$ 9,157.63	\$ 7,482.25
Amortization	\$ -	\$ -	\$ -	\$ 2,711.46	\$ 8,692.74	\$ 14,560.55	\$ 14,560.55
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 3,382.81	\$ 11,637.05	\$ 15,848.15	\$ 14,580.30
CCA - Computers	\$ -	\$ -	\$ -	\$ -	\$ 1,379.17	\$ 620.63	\$ 279.28
CCA - Applications Software	\$ -	\$ -	\$ -	\$ 560.02	\$ 1,411.29	\$ 851.27	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ -	\$ 764.66	\$ 4,305.29	\$ 7,639.38	\$ 7,741.78
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ -	\$ 252.34	\$ 1,334.64	\$ 2,158.13	\$ 2,032.22
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ -	\$ 81,751.12	\$ 200,379.68	\$ 186,171.56	\$ 171,963.45
Computer Hardware	\$ -	\$ -	\$ -	\$ 1,670.13	\$ -	\$ 371.14	\$ 742.28
Computer Software (Including Application Software)	\$ -	\$ -	\$ -	\$ 390.14	\$ 1,652.87	\$ 929.30	\$ 205.73
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ -	\$ 80,471.13	\$ 202,032.55	\$ 187,472.00	\$ 172,911.45
Less: Exemption	\$ -	\$ -	\$ -	\$ 19,795.90	\$ 50,811.19	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ -	\$ 60,675.23	\$ 151,221.36	\$ 187,472.00	\$ 172,911.45
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ -	\$ 136.52	\$ 113.42	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 252.34	\$ 1,334.64	\$ 2,158.13	\$ 2,032.22
Change in OCT	\$ -	\$ -	\$ -	\$ 136.52	\$ 113.42	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 388.86	\$ 1,448.06	\$ 2,158.13	\$ 2,032.22
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 376.62	\$ 1,934.26	\$ 3,007.84	\$ 2,755.55
Change in OCT	\$ -	\$ -	\$ -	\$ 136.52	\$ 113.42	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 513.14	\$ 2,047.68	\$ 3,007.84	\$ 2,755.55



Ontario Energy Board
Smart Meter Model

Chatham-Kent Hydro Inc.

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ -		4.59%	\$ -	\$ -	\$ -	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ -		5.14%	\$ -	\$ -	\$ -	
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			May-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			Jun-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			Jul-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Aug-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Sep-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Oct-08	2008	Q4	\$ -		3.35%	\$ -	\$ -		
			Nov-08	2008	Q4	\$ -		3.35%	\$ -	\$ -		
			Dec-08	2008	Q4	\$ -		3.35%	\$ -	\$ -	\$ -	
			Jan-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Feb-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Mar-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Apr-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			May-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			Jun-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			Jul-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Aug-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Sep-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Oct-09	2009	Q4	\$ -		0.55%	\$ -	\$ -		
			Nov-09	2009	Q4	\$ -		0.55%	\$ -	\$ -		
			Dec-09	2009	Q4	\$ -		0.55%	\$ -	\$ -	\$ -	
			Jan-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Feb-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Mar-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Apr-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		
			May-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		
			Jun-10	2010	Q2	\$ -	\$ 2,335.50	0.55%	\$ -	\$ 2,335.50		\$ 0.51
			Jul-10	2010	Q3	\$ 2,335.50	\$ 20,345.10	0.89%	\$ 1.73	\$ 22,682.33		\$ 0.51
			Aug-10	2010	Q3	\$ 22,680.60	\$ 13,863.99	0.89%	\$ 16.82	\$ 36,561.41		\$ 0.51
			Sep-10	2010	Q3	\$ 36,544.59	\$ 11,888.87	0.89%	\$ 27.10	\$ 48,460.57		\$ 0.51
			Oct-10	2010	Q4	\$ 48,433.47	\$ 11,770.09	1.20%	\$ 48.43	\$ 60,251.99		\$ 0.51
			Nov-10	2010	Q4	\$ 60,203.56	\$ 11,268.90	1.20%	\$ 60.20	\$ 71,532.66		\$ 0.51
			Dec-10	2010	Q4	\$ 71,472.46	\$ 26,647.33	1.20%	\$ 71.47	\$ 98,191.26	\$ 98,345.54	\$ 0.51
			Jan-11	2011	Q1	\$ 98,119.79	\$ 10,262.51	1.47%	\$ 120.20	\$ 108,502.50		\$ 0.51
			Feb-11	2011	Q1	\$ 108,382.30	\$ 11,124.35	1.47%	\$ 132.77	\$ 119,639.42		\$ 0.51
			Mar-11	2011	Q1	\$ 119,506.65	\$ 14,433.54	1.47%	\$ 146.40	\$ 134,086.60		\$ 0.51
			Apr-11	2011	Q2	\$ 133,940.20	\$ 10,700.67	1.47%	\$ 164.08	\$ 144,804.95		\$ 0.51
			May-11	2011	Q2	\$ 144,640.87	\$ 15,595.55	1.47%	\$ 177.19	\$ 160,413.61		\$ 0.96
			Jun-11	2011	Q2	\$ 160,236.42	\$ 23,277.85	1.47%	\$ 196.29	\$ 183,710.56		\$ 0.96
			Jul-11	2011	Q3	\$ 183,514.27	\$ 22,055.13	1.47%	\$ 224.80	\$ 205,794.20		\$ 0.96
			Aug-11	2011	Q3	\$ 205,569.40	\$ 27,025.64	1.47%	\$ 251.82	\$ 232,846.86		\$ 0.96
			Sep-11	2011	Q3	\$ 232,595.04	\$ 24,907.36	1.47%	\$ 284.93	\$ 257,787.34		\$ 0.96
			Oct-11	2011	Q4	\$ 257,502.41	\$ 22,059.36	1.47%	\$ 315.44	\$ 279,877.21		\$ 0.96
			Nov-11	2011	Q4	\$ 279,561.77	\$ 27,655.98	1.47%	\$ 342.46	\$ 307,560.21		\$ 0.96
			Dec-11	2011	Q4	\$ 307,217.75	\$ 40,706.42	1.47%	\$ 376.34	\$ 348,300.51	\$ 252,537.10	\$ 0.96



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP				Opening Balance (Principal)	Funding Adder Revenues	Interest		Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
			Date	Year	Quarter			Rate	Interest			
			Jan-12	2012	Q1	\$ 347,924.17	\$ 40,706.83	1.47%	\$ 426.21	\$ 389,057.21		\$ 0.96
			Feb-12	2012	Q1	\$ 388,631.00	\$ 40,891.18	1.47%	\$ 476.07	\$ 429,998.25		\$ 0.96
			Mar-12	2012	Q1	\$ 429,522.18	\$ 40,763.13	1.47%	\$ 526.16	\$ 470,811.47		\$ 0.96
			Apr-12	2012	Q2	\$ 470,285.31	\$ 39,403.87	1.47%	\$ 576.10	\$ 510,265.28		\$ 0.96
			May-12	2012	Q2	\$ 509,689.18	\$ 4,174.32	1.47%	\$ 624.37	\$ 506,139.23		
			Jun-12	2012	Q2	\$ 505,514.86	\$ -	1.47%	\$ 619.26	\$ 506,134.12		
			Jul-12	2012	Q3	\$ 505,514.86	\$ -	1.47%	\$ 619.26	\$ 506,134.12		
			Aug-12	2012	Q3	\$ 505,514.86	\$ -	1.47%	\$ 619.26	\$ 506,134.12		
			Sep-12	2012	Q3	\$ 505,514.86	\$ -	1.47%	\$ 619.26	\$ 506,134.12		
			Oct-12	2012	Q4	\$ 505,514.86	\$ -	1.47%	\$ 619.26	\$ 506,134.12		
			Nov-12	2012	Q4	\$ 505,514.86	\$ -	1.47%	\$ 619.26	\$ 506,134.12		
			Dec-12	2012	Q4	\$ 505,514.86	\$ -	1.47%	\$ 619.26	\$ 506,134.12	\$ 164,554.42	
Total Funding Adder Revenues Collected						\$ 505,514.86			\$ 9,922.20	\$ 515,437.06	\$ 515,437.06	



Chatham-Kent Hydro Inc.

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

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-			-	4.59%	-	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-			-	4.59%	-	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-			-	4.59%	-	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-			-	4.59%	-	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-			-	4.59%	-	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	-			-	5.14%	-	-
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	-			-	5.14%	-	-
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	-			-	5.14%	-	-
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	-			-	5.14%	-	-
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	-			-	4.08%	-	-
			May-08	2008	Q2	-			-	4.08%	-	-
			Jun-08	2008	Q2	-			-	4.08%	-	-
			Jul-08	2008	Q3	-			-	3.35%	-	-
			Aug-08	2008	Q3	-			-	3.35%	-	-
			Sep-08	2008	Q3	-			-	3.35%	-	-
			Oct-08	2008	Q4	-			-	3.35%	-	-
			Nov-08	2008	Q4	-			-	3.35%	-	-
			Dec-08	2008	Q4	-			-	3.35%	-	-
			Jan-09	2009	Q1	-			-	2.45%	-	-
			Feb-09	2009	Q1	-			-	2.45%	-	-
			Mar-09	2009	Q1	-			-	2.45%	-	-
			Apr-09	2009	Q2	-			-	1.00%	-	-
			May-09	2009	Q2	-			-	1.00%	-	-
			Jun-09	2009	Q2	-			-	1.00%	-	-
			Jul-09	2009	Q3	-			-	0.55%	-	-
			Aug-09	2009	Q3	-			-	0.55%	-	-
			Sep-09	2009	Q3	-			-	0.55%	-	-
			Oct-09	2009	Q4	-			-	0.55%	-	-
			Nov-09	2009	Q4	-			-	0.55%	-	-
			Dec-09	2009	Q4	-			-	0.55%	-	-
			Jan-10	2010	Q1	-			-	0.55%	-	-
			Feb-10	2010	Q1	-			-	0.55%	-	-
			Mar-10	2010	Q1	-			-	0.55%	-	-
			Apr-10	2010	Q2	-			-	0.55%	-	-
			May-10	2010	Q2	-			-	0.55%	-	-
			Jun-10	2010	Q2	-			-	0.55%	-	-
			Jul-10	2010	Q3	-			-	0.89%	-	-
			Aug-10	2010	Q3	-			-	0.89%	-	-
			Sep-10	2010	Q3	-			-	0.89%	-	-
			Oct-10	2010	Q4	-			-	1.20%	-	-
			Nov-10	2010	Q4	-			-	1.20%	-	-
			Dec-10	2010	Q4	-			-	1.20%	-	-
			Jan-11	2011	Q1	-			-	1.47%	-	-
			Feb-11	2011	Q1	-			-	1.47%	-	-
			Mar-11	2011	Q1	-			-	1.47%	-	-
			Apr-11	2011	Q2	-			-	1.47%	-	-
			May-11	2011	Q2	-			-	1.47%	-	-
			Jun-11	2011	Q2	-			-	1.47%	-	-
			Jul-11	2011	Q3	-			-	1.47%	-	-
			Aug-11	2011	Q3	-			-	1.47%	-	-
			Sep-11	2011	Q3	-			-	1.47%	-	-
			Oct-11	2011	Q4	-			-	1.47%	-	-
			Nov-11	2011	Q4	-			-	1.47%	-	-
			Dec-11	2011	Q4	-			-	1.47%	-	-
			Jan-12	2012	Q1	-			-	1.47%	-	-
			Feb-12	2012	Q1	-			-	1.47%	-	-
			Mar-12	2012	Q1	-			-	1.47%	-	-
			Apr-12	2012	Q2	-			-	1.47%	-	-
			May-12	2012	Q2	-			-	1.47%	-	-
			Jun-12	2012	Q2	-			-	1.47%	-	-
			Jul-12	2012	Q3	-			-	1.47%	-	-
			Aug-12	2012	Q3	-			-	1.47%	-	-
			Sep-12	2012	Q3	-			-	1.47%	-	-
			Oct-12	2012	Q4	-			-	1.47%	-	-
			Nov-12	2012	Q4	-			-	1.47%	-	-
			Dec-12	2012	Q4	-			-	1.47%	-	-
						\$	-	\$	-	\$	-	-



Ontario Energy Board

Smart Meter Model

Chatham-Kent Hydro Inc.

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

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense	Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
2006	\$ -	\$ -	\$ -	\$ -	4.37%	\$ -
2007	\$ -	\$ -	\$ -	\$ -	4.73%	\$ -
2008	\$ -	\$ -	\$ -	\$ -	3.98%	\$ -
2009	\$ 73,226.54	\$ 2,711.46	\$ 75,938.01	\$ 37,969.00	1.14%	\$ 431.90
2010	\$ 290,422.39	\$ 8,692.74	\$ 375,053.14	\$ 225,495.57	0.80%	\$ 1,798.33
2011	\$ 251,165.92	\$ 14,560.55	\$ 640,779.60	\$ 507,916.37	1.47%	\$ 7,466.37
2012	\$ 64,754.42	\$ 14,560.55	\$ 720,094.57	\$ 680,437.08	1.47%	\$ 10,002.43
Cumulative Interest to 2011						\$ 9,696.60
Cumulative Interest to 2012						\$ 19,699.02



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

Check if applicable

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

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ -	\$ 80,491.70	\$ 314,672.80	\$ 285,724.73	\$ 95,952.57	\$ 776,841.79
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ -	\$ 431.90	\$ 1,798.33	\$ 7,466.37		\$ 9,696.60
<input type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)								\$ -
<input checked="" type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)	\$ -	\$ -	\$ -	\$ 431.90	\$ 1,798.33	\$ 7,466.37		\$ 9,696.60
SMFA Revenues (from Sheet 8)	\$ -	\$ -	\$ -	\$ -	\$ 98,119.79	\$ 249,804.38	\$ 157,590.69	\$ 505,514.86
SMFA Interest (from Sheet 8)	\$ -	\$ -	\$ -	\$ -	\$ 225.75	\$ 2,732.72	\$ 6,963.73	\$ 9,922.20
Net Deferred Revenue Requirement	\$ -	\$ -	\$ -	\$ 80,923.59	\$ 218,125.59	\$ 40,654.00	\$ 68,601.85	\$ 271,101.32
Number of Metered Customers (average for 2012 test year)							28649	

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

Years for collection or refunding	1
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 690,585.82
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 515,437.06
Net Deferred Revenue Requirement	\$ 175,148.76
SMDR	November 1, 2012 to October 31, 2013
Check: Forecasted SMDR Revenues	\$ 175,331.88
	0.51
	Match

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

Incremental Revenue Requirement for 2012	\$ 95,952.57
SMIRR	\$ 0.28
Check: Forecasted SMIRR Revenues	\$ 96,260.64
	Match

Entegrus Powerlines Inc.

SM Final Disposition – Draft Rate Order

Board File No.: EB-2012-0289

Date Filed: November 2, 2012

Attachment B
Smart Meter Model
CK GS<50kW



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Fort Albany Power Corporation
Fort Frances Power Corporation

Application Contact Information

Name: Andrya Eagen

Title: Senior Regulatory Specialist

Phone Number: 519-352-6300 Ext 243

Email Address: andryaeagen@ckenergy.com

We are applying for rates effective: November 1, 2012

Last COS Re-based Year 2010

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.



Chatham-Kent Hydro Inc.

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

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

Smart Meter Capital Cost and Operational Expense Data

Smart Meter Installation Plan

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

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast	Total
Residential								0
General Service < 50 kW				862	1,157	127		2146
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	0	862	1,157	127	0	2146
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	0.00%	40.17%	94.08%	100.00%	0.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed								0
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	0	862	1,157	127	0	2146

1 Capital Costs

1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)

	Asset Type	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast	Total
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter				296,656	398,179	43,707		\$ 738,542
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter				192,722	258,677	28,394		\$ 479,793
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)									\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)									\$ -
Total Advanced Metering Communications Devices (AMCD)		\$ -	\$ -	\$ -	\$ 489,378	\$ 656,856	\$ 72,101	\$ -	\$ 1,218,335

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

	Asset Type	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast	Total
1.2.1 Collectors									\$ -
1.2.2 Repeaters (may include radio licences, etc.)	Computer Hardware				12,012	16,123	1,770		\$ 29,905
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)									\$ -
Total Advanced Metering Regional Collector (AMRC) (includes LAN)		\$ -	\$ -	\$ -	\$ 12,012	\$ 16,123	\$ 1,770	\$ -	\$ 29,905

1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

	Asset Type	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast	Total
1.3.1 Computer Hardware	Computer Hardware				18,288	24,546	2,694		\$ 45,528
1.3.2 Computer Software	Computer Software				4,425	5,939	652		\$ 11,016
1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.)									\$ -
Total Advanced Metering Control Computer (AMCC)		\$ -	\$ -	\$ -	\$ 22,713	\$ 30,486	\$ 3,346	\$ -	\$ 56,544

1.4 WIDE AREA NETWORK (WAN)

	Asset Type	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast	Total
1.4.1 Activation Fees	Applications Software				3,255	4,369	480		\$ 8,104
Total Wide Area Network (WAN)		\$ -	\$ -	\$ -	\$ 3,255	\$ 4,369	\$ 480	\$ -	\$ 8,104

1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY

	Asset Type	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast	Total
1.5.1 Customer Equipment (including repair of damaged equipment)	Smart Meter				5,986	8,035	882		\$ 14,904
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		\$ -	\$ -	\$ -	\$ 5,986	\$ 8,035	\$ 882	\$ -	\$ 14,904
Total Capital Costs Related to Minimum Functionality		\$ -	\$ -	\$ -	\$ 533,344	\$ 715,869	\$ 78,579	\$ -	\$ 1,327,792

1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY

	Asset Type	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast	Total
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06	Computer Software								\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Applications Software								\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDMP, etc.									\$ -
Total Capital Costs Beyond Minimum Functionality		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter Capital Costs		\$ -	\$ -	\$ -	\$ 533,344	\$ 715,869	\$ 78,579	\$ -	\$ 1,327,792

2 OM&A Expenses

2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast	Total
2.1.1 Maintenance (may include meter reverification costs, etc.)				4,224	3,394	5,218	0	\$ 12,836
2.1.2 Other (please specify)								\$ -
Total Incremental AMCD OM&A Costs	\$ -	\$ -	\$ -	\$ 4,224	\$ 3,394	\$ 5,218	\$ -	\$ 12,836



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

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

Smart Meter Capital Cost and Operational Expense Data

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

2.2.1 Maintenance

2.2.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

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

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

2.3.2 Other (please specify)

Total Incremental AMCC OM&A Costs

2.4 WIDE AREA NETWORK (WAN)

2.4.1 WAN Maintenance

2.4.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.5 OTHER AMI OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.5.1 Business Process Redesign

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

2.5.3 Program Management

2.5.4 Change Management (may include training, etc.)

2.5.5 Administration Costs

2.5.6 Other AM Expenses

(please specify)

Total Other AMI OM&A Costs Related to Minimum Functionality

TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY

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

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

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

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

Total OM&A Costs Beyond Minimum Functionality

Total Smart Meter OM&A Costs

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
2.2.1 Maintenance								\$ -
2.2.2 Other (please specify)								\$ -
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2.3.1 Hardware Maintenance (may include server support, etc.)				481	505	338	296	\$ 1,621
2.3.2 Software Maintenance (may include maintenance support, etc.)				1,874	1,405	913	6,721	\$ 10,913
2.3.2 Other (please specify)								\$ -
Total Incremental AMCC OM&A Costs	\$ -	\$ -	\$ -	\$ 2,355	\$ 1,910	\$ 1,251	\$ 7,017	\$ 12,533
2.4.1 WAN Maintenance								\$ -
2.4.2 Other (please specify)								\$ -
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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				63	0	0	0	\$ 63
2.5.6 Other AM Expenses (please specify)				665	209	454	0	\$ 1,328
Total Other AMI OM&A Costs Related to Minimum Functionality	\$ -	\$ -	\$ -	\$ 728	\$ 209	\$ 454	\$ -	\$ 1,391
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY	\$ -	\$ -	\$ -	\$ 7,308	\$ 5,513	\$ 6,923	\$ 7,017	\$ 26,760
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.				627	25,958	20,294	0	\$ 46,879
Total OM&A Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ 627	\$ 25,958	\$ 20,294	\$ -	\$ 46,879
Total Smart Meter OM&A Costs	\$ -	\$ -	\$ -	\$ 7,935	\$ 31,471	\$ 27,217	\$ 7,017	\$ 73,639

3 Aggregate Smart Meter Costs by Category

3.1

Capital

3.1.1 Smart Meter

3.1.2 Computer Hardware

3.1.3 Computer Software

3.1.4 Tools & Equipment

3.1.5 Other Equipment

3.1.6 Applications Software

3.1.7 Total Capital Costs

3.2 OM&A Costs

3.2.1 Total OM&A Costs

\$ -	\$ -	\$ -	\$ 495,364	\$ 664,892	\$ 72,983	\$ -	\$ 1,233,239
\$ -	\$ -	\$ -	\$ 30,300	\$ 40,669	\$ 4,464	\$ -	\$ 75,433
\$ -	\$ -	\$ -	\$ 4,425	\$ 5,939	\$ 652	\$ -	\$ 11,016
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ 3,255	\$ 4,369	\$ 480	\$ -	\$ 8,104
\$ -	\$ -	\$ -	\$ 533,344	\$ 715,869	\$ 78,579	\$ -	\$ 1,327,792
					Error		
\$ -	\$ -	\$ -	\$ 7,935	\$ 31,471	\$ 27,217	\$ 7,017	\$ 73,639



Ontario Energy Board

Smart Meter Model

Chatham-Kent Hydro Inc.

	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure¹							
Deemed Short-term Debt Capitalization					4.0%	4.0%	4.0%
Deemed Long-term Debt Capitalization	50.0%	50.0%	53.3%	56.7%	56.0%	56.0%	56.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%
Preferred Shares	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate					2.07%	2.07%	2.07%
Long-term Debt Rate (actual/embedded/deemed) ²	7.04%	7.04%	7.04%	7.04%	5.87%	5.87%	5.87%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.85%	9.85%	9.85%
Return on Preferred Shares							
WACC	8.02%	8.02%	7.96%	7.89%	7.31%	7.31%	7.31%
Working Capital Allowance							
Working Capital Allowance Rate (% of the sum of Cost of Power + controllable expenses)	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates (expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	3	3	3	3	3	3	3
- rate (%)	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates							
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%

Assumptions

¹ Planned smart meter installations occur evenly throughout the year.

² Fiscal calendar year (January 1 to December 31) used.

³ Amortization is done on a straight line basis and has the "half-year" rule applied.



	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 495,364	\$ 1,160,256	\$ 1,233,239
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 495,364	\$ 664,892	\$ 72,983	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 495,364	\$ 1,160,256	\$ 1,233,239	\$ 1,233,239
Accumulated Depreciation							
Opening Balance		\$ -	\$ -	\$ -	\$ 16,512	\$ 71,699	\$ 151,483
Amortization expense during year	\$ -	\$ -	\$ -	\$ 16,512	\$ 55,187	\$ 79,783	\$ 82,216
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 16,512	\$ 71,699	\$ 151,483	\$ 233,699
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 478,852	\$ 1,088,556	\$ 1,081,756
Closing Balance	\$ -	\$ -	\$ -	\$ 478,852	\$ 1,088,556	\$ 1,081,756	\$ 999,540
Average Net Book Value	\$ -	\$ -	\$ -	\$ 239,426	\$ 783,704	\$ 1,085,156	\$ 1,040,648
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 30,300	\$ 70,969	\$ 75,433
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 30,300	\$ 40,669	\$ 4,464	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 30,300	\$ 70,969	\$ 75,433	\$ 75,433
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 3,030	\$ 13,157	\$ 27,797
Amortization expense during year	\$ -	\$ -	\$ -	\$ 3,030	\$ 10,127	\$ 14,840	\$ 15,087
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 3,030	\$ 13,157	\$ 27,797	\$ 42,884
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 27,270	\$ 57,812	\$ 47,636
Closing Balance	\$ -	\$ -	\$ -	\$ 27,270	\$ 57,812	\$ 47,636	\$ 32,549
Average Net Book Value	\$ -	\$ -	\$ -	\$ 13,635	\$ 42,541	\$ 52,724	\$ 40,093
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 7,680	\$ 17,989	\$ 19,120
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 7,680	\$ 10,309	\$ 1,132	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 7,680	\$ 17,989	\$ 19,120	\$ 19,120
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 1,280	\$ 5,558	\$ 11,743
Amortization expense during year	\$ -	\$ -	\$ -	\$ 1,280	\$ 4,278	\$ 6,185	\$ 6,373
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 1,280	\$ 5,558	\$ 11,743	\$ 18,117
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 6,400	\$ 12,431	\$ 7,377
Closing Balance	\$ -	\$ -	\$ -	\$ 6,400	\$ 12,431	\$ 7,377	\$ 1,004
Average Net Book Value	\$ -	\$ -	\$ -	\$ 3,200	\$ 9,415	\$ 9,904	\$ 4,191
Net Fixed Assets - Tools and Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Other Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Ontario Energy Board
Smart Meter Model

Chatham-Kent Hydro Inc.

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 239,426	\$ 783,704	\$ 1,085,156	\$ 1,040,648
Computer Hardware	\$ -	\$ -	\$ -	\$ 13,635	\$ 42,541	\$ 52,724	\$ 40,093
Computer Software	\$ -	\$ -	\$ -	\$ 3,200	\$ 9,415	\$ 9,904	\$ 4,191
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ -	\$ 256,261	\$ 835,660	\$ 1,147,784	\$ 1,084,931
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ -	\$ 7,935	\$ 31,471	\$ 27,217	\$ 7,017
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ -	\$ 1,190	\$ 4,721	\$ 4,083	\$ 1,053
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ -	\$ 257,451	\$ 840,381	\$ 1,151,867	\$ 1,085,984
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 33,615	\$ 46,075	\$ 43,439
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 145,975	\$ 470,613	\$ 645,045	\$ 608,151
Equity	\$ -	\$ -	\$ -	\$ 111,476	\$ 336,152	\$ 460,747	\$ 434,394
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ -	\$ 257,451	\$ 840,381	\$ 1,151,867	\$ 1,085,984
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 696	\$ 954	\$ 899
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 10,277	\$ 27,625	\$ 37,864	\$ 35,698
Equity	\$ -	\$ -	\$ -	\$ 10,033	\$ 33,111	\$ 45,384	\$ 42,788
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ -	\$ 20,310	\$ 61,432	\$ 84,201	\$ 79,385
Operating Expenses	\$ -	\$ -	\$ -	\$ 7,935	\$ 31,471	\$ 27,217	\$ 7,017
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 16,512	\$ 55,187	\$ 79,783	\$ 82,216
Computer Hardware	\$ -	\$ -	\$ -	\$ 3,030	\$ 10,127	\$ 14,640	\$ 15,087
Computer Software	\$ -	\$ -	\$ -	\$ 1,280	\$ 4,278	\$ 6,185	\$ 6,373
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ -	\$ 20,822	\$ 69,592	\$ 100,608	\$ 103,676
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ -	\$ 49,067	\$ 162,495	\$ 212,026	\$ 190,078
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ -	\$ 7,935	\$ 31,471	\$ 27,217	\$ 7,017
Amortization Expense	\$ -	\$ -	\$ -	\$ 20,822	\$ 69,592	\$ 100,608	\$ 103,676
Interest Expense	\$ -	\$ -	\$ -	\$ 10,277	\$ 28,321	\$ 38,818	\$ 36,598
Net Income for Taxes/PILs	\$ -	\$ -	\$ -	\$ 10,033	\$ 33,111	\$ 45,384	\$ 42,788
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ -	\$ 802.29	\$ 4,059.49	\$ 11,166.50	\$ 17,167.53
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ -	\$ 49,869	\$ 166,554	\$ 223,193	\$ 207,246



Ontario Energy Board

Smart Meter Model

Chatham-Kent Hydro Inc.

For PILs Calculation

UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 475,549.71	\$ 1,075,801.58	\$ 1,059,801.05
Capital Additions	\$ -	\$ -	\$ -	\$ 495,364.29	\$ 664,891.51	\$ 72,982.91	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 495,364.29	\$ 1,140,441.22	\$ 1,148,784.49	\$ 1,059,801.05
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 247,682.14	\$ 332,445.75	\$ 36,491.45	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 247,682.14	\$ 807,995.47	\$ 1,112,293.04	\$ 1,059,801.05
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 19,814.57	\$ 64,639.64	\$ 88,983.44	\$ 84,784.08
Closing UCC	\$ -	\$ -	\$ -	\$ 475,549.71	\$ 1,075,801.58	\$ 1,059,801.05	\$ 975,016.96

UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 25,175.38	\$ 45,120.01	\$ 24,013.14
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 30,299.67	\$ 40,669.05	\$ 4,464.10	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ 4,424.99	\$ 5,939.35	\$ 651.94	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 34,724.66	\$ 71,783.78	\$ 50,236.06	\$ 24,013.14
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 17,362.33	\$ 23,304.20	\$ 2,558.02	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 17,362.33	\$ 48,479.58	\$ 47,678.03	\$ 24,013.14
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ 9,549.28	\$ 26,663.77	\$ 26,222.92	\$ 13,207.23
Closing UCC	\$ -	\$ -	\$ -	\$ 25,175.38	\$ 45,120.01	\$ 24,013.14	\$ 10,805.91

UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
INCOME TAX							
Net Income	\$ -	\$ -	\$ -	\$ 10,032.88	\$ 33,111.01	\$ 45,383.54	\$ 42,787.76
Amortization	\$ -	\$ -	\$ -	\$ 20,822.15	\$ 69,592.36	\$ 100,608.18	\$ 103,675.95
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 19,814.57	\$ 64,639.64	\$ 88,983.44	\$ 84,784.08
CCA - Computers	\$ -	\$ -	\$ -	\$ 9,549.28	\$ 26,663.77	\$ 26,222.92	\$ 13,207.23
CCA - Applications Software	\$ -	\$ -	\$ -	\$ 1,627.62	\$ 3,812.26	\$ 2,424.44	\$ 239.80
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ -	\$ 136.45	\$ 7,587.70	\$ 28,360.92	\$ 48,232.60
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ -	\$ 45.03	\$ 2,352.19	\$ 8,011.96	\$ 12,661.06
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ -	\$ 478,852.14	\$ 1,088,556.31	\$ 1,081,756.07	\$ 999,540.16
Computer Hardware	\$ -	\$ -	\$ -	\$ 27,269.71	\$ 57,811.92	\$ 47,635.87	\$ 32,549.30
Computer Software (Including Application Software)	\$ -	\$ -	\$ -	\$ 6,400.20	\$ 12,430.64	\$ 7,377.30	\$ 1,003.84
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ -	\$ 512,522.04	\$ 1,158,798.87	\$ 1,136,769.24	\$ 1,033,093.29
Less: Exemption	\$ -	\$ -	\$ -	\$ 126,080.42	\$ 291,437.91	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ -	\$ 386,441.62	\$ 867,360.95	\$ 1,136,769.24	\$ 1,033,093.29
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ -	\$ 869.49	\$ 650.52	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 45.03	\$ 2,352.19	\$ 8,011.96	\$ 12,661.06
Change in OCT	\$ -	\$ -	\$ -	\$ 869.49	\$ 650.52	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 824.46	\$ 3,002.71	\$ 8,011.96	\$ 12,661.06
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 67.21	\$ 3,408.97	\$ 11,166.50	\$ 17,167.53
Change in OCT	\$ -	\$ -	\$ -	\$ 869.49	\$ 650.52	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 802.29	\$ 4,059.49	\$ 11,166.50	\$ 17,167.53



Ontario Energy Board

Smart Meter Model

Chatham-Kent Hydro Inc.

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ -		4.59%	\$ -	\$ -	\$ -	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ -		5.14%	\$ -	\$ -	\$ -	
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			May-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			Jun-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			Jul-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Aug-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Sep-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Oct-08	2008	Q4	\$ -		3.35%	\$ -	\$ -		
			Nov-08	2008	Q4	\$ -		3.35%	\$ -	\$ -		
			Dec-08	2008	Q4	\$ -		3.35%	\$ -	\$ -	\$ -	
			Jan-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Feb-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Mar-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Apr-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			May-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			Jun-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			Jul-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Aug-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Sep-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Oct-09	2009	Q4	\$ -		0.55%	\$ -	\$ -		
			Nov-09	2009	Q4	\$ -		0.55%	\$ -	\$ -		
			Dec-09	2009	Q4	\$ -		0.55%	\$ -	\$ -	\$ -	
			Jan-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Feb-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Mar-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Apr-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		
			May-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		\$ 0.51
			Jun-10	2010	Q2	\$ -	\$ 2.14	0.55%	\$ -	\$ 2.14		\$ 0.51
			Jul-10	2010	Q3	\$ 2.14	\$ 2,118.98	0.89%	\$ -	\$ 2,121.13		\$ 0.51
			Aug-10	2010	Q3	\$ 2,121.13	\$ 1,435.34	0.89%	\$ 1.57	\$ 3,558.04		\$ 0.51
			Sep-10	2010	Q3	\$ 3,556.47	\$ 1,170.41	0.89%	\$ 2.64	\$ 4,729.53		\$ 0.51
			Oct-10	2010	Q4	\$ 4,726.89	\$ 1,167.71	1.20%	\$ 4.73	\$ 5,899.33		\$ 0.51
			Nov-10	2010	Q4	\$ 5,894.60	\$ 1,166.57	1.20%	\$ 5.89	\$ 7,067.07		\$ 0.51
			Dec-10	2010	Q4	\$ 7,061.18	\$ 2,862.78	1.20%	\$ 7.06	\$ 9,931.02	\$ 9,945.85	\$ 0.51
			Jan-11	2011	Q1	\$ 9,923.96	\$ 1,101.98	1.47%	\$ 12.16	\$ 11,038.11		\$ 0.51
			Feb-11	2011	Q1	\$ 11,025.95	\$ 1,149.98	1.47%	\$ 13.51	\$ 12,189.44		\$ 0.51
			Mar-11	2011	Q1	\$ 12,175.93	\$ 1,288.07	1.47%	\$ 14.92	\$ 13,478.93		\$ 0.51
			Apr-11	2011	Q2	\$ 13,464.01	\$ 1,097.85	1.47%	\$ 16.49	\$ 14,578.35		\$ 0.51
			May-11	2011	Q2	\$ 14,561.86	\$ 1,439.86	1.47%	\$ 17.84	\$ 16,019.57		\$ 0.96
			Jun-11	2011	Q2	\$ 16,001.73	\$ 2,374.32	1.47%	\$ 19.60	\$ 18,395.65		\$ 0.96
			Jul-11	2011	Q3	\$ 18,376.05	\$ 2,396.61	1.47%	\$ 22.51	\$ 20,795.18		\$ 0.96
			Aug-11	2011	Q3	\$ 20,772.67	\$ 2,635.89	1.47%	\$ 25.45	\$ 23,434.01		\$ 0.96
			Sep-11	2011	Q3	\$ 23,408.56	\$ 2,566.26	1.47%	\$ 28.68	\$ 26,003.51		\$ 0.96
			Oct-11	2011	Q4	\$ 25,974.83	\$ 2,372.51	1.47%	\$ 31.82	\$ 28,379.16		\$ 0.96
			Nov-11	2011	Q4	\$ 28,347.34	\$ 2,724.85	1.47%	\$ 34.73	\$ 31,106.93		\$ 0.96
			Dec-11	2011	Q4	\$ 31,072.20	\$ 4,317.89	1.47%	\$ 38.06	\$ 35,428.15	\$ 25,741.90	\$ 0.96



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP				Opening Balance (Principal)	Funding Adder Revenues	Interest		Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
			Date	Year	Quarter			Rate	Interest			
			Jan-12	2012	Q1	\$ 35,390.09	\$ 4,377.45	1.47%	\$ 43.35	\$ 39,810.89		\$ 0.96
			Feb-12	2012	Q1	\$ 39,767.54	\$ 4,371.64	1.47%	\$ 48.72	\$ 44,187.90		\$ 0.96
			Mar-12	2012	Q1	\$ 44,139.18	\$ 4,390.31	1.47%	\$ 54.07	\$ 48,583.56		\$ 0.96
			Apr-12	2012	Q2	\$ 48,529.49	\$ 3,940.77	1.47%	\$ 59.45	\$ 52,529.71		\$ 0.96
			May-12	2012	Q2	\$ 52,470.26	\$ 152.79	1.47%	\$ 64.28	\$ 52,381.75		
			Jun-12	2012	Q2	\$ 52,317.47	\$ -	1.47%	\$ 64.09	\$ 52,381.56		
			Jul-12	2012	Q3	\$ 52,317.47	\$ -	1.47%	\$ 64.09	\$ 52,381.56		
			Aug-12	2012	Q3	\$ 52,317.47	\$ -	1.47%	\$ 64.09	\$ 52,381.56		
			Sep-12	2012	Q3	\$ 52,317.47	\$ -	1.47%	\$ 64.09	\$ 52,381.56		
			Oct-12	2012	Q4	\$ 52,317.47	\$ -	1.47%	\$ 64.09	\$ 52,381.56		
			Nov-12	2012	Q4	\$ 52,317.47	\$ -	1.47%	\$ 64.09	\$ 52,381.56		
			Dec-12	2012	Q4	\$ 52,317.47	\$ -	1.47%	\$ 64.09	\$ 52,381.56	\$ 17,645.88	
Total Funding Adder Revenues Collected						\$ 52,317.47	\$ 52,317.47	\$ 1,016.16	\$ 53,333.63	\$ 53,333.63		



Chatham-Kent Hydro Inc.

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

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-			-	4.59%	-	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-			-	4.59%	-	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-			-	4.59%	-	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-			-	4.59%	-	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-			-	4.59%	-	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	-			-	5.14%	-	-
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	-			-	5.14%	-	-
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	-			-	5.14%	-	-
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	-			-	5.14%	-	-
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	-			-	4.08%	-	-
			May-08	2008	Q2	-			-	4.08%	-	-
			Jun-08	2008	Q2	-			-	4.08%	-	-
			Jul-08	2008	Q3	-			-	3.35%	-	-
			Aug-08	2008	Q3	-			-	3.35%	-	-
			Sep-08	2008	Q3	-			-	3.35%	-	-
			Oct-08	2008	Q4	-			-	3.35%	-	-
			Nov-08	2008	Q4	-			-	3.35%	-	-
			Dec-08	2008	Q4	-			-	3.35%	-	-
			Jan-09	2009	Q1	-			-	2.45%	-	-
			Feb-09	2009	Q1	-			-	2.45%	-	-
			Mar-09	2009	Q1	-			-	2.45%	-	-
			Apr-09	2009	Q2	-			-	1.00%	-	-
			May-09	2009	Q2	-			-	1.00%	-	-
			Jun-09	2009	Q2	-			-	1.00%	-	-
			Jul-09	2009	Q3	-			-	0.55%	-	-
			Aug-09	2009	Q3	-			-	0.55%	-	-
			Sep-09	2009	Q3	-			-	0.55%	-	-
			Oct-09	2009	Q4	-			-	0.55%	-	-
			Nov-09	2009	Q4	-			-	0.55%	-	-
			Dec-09	2009	Q4	-			-	0.55%	-	-
			Jan-10	2010	Q1	-			-	0.55%	-	-
			Feb-10	2010	Q1	-			-	0.55%	-	-
			Mar-10	2010	Q1	-			-	0.55%	-	-
			Apr-10	2010	Q2	-			-	0.55%	-	-
			May-10	2010	Q2	-			-	0.55%	-	-
			Jun-10	2010	Q2	-			-	0.55%	-	-
			Jul-10	2010	Q3	-			-	0.89%	-	-
			Aug-10	2010	Q3	-			-	0.89%	-	-
			Sep-10	2010	Q3	-			-	0.89%	-	-
			Oct-10	2010	Q4	-			-	1.20%	-	-
			Nov-10	2010	Q4	-			-	1.20%	-	-
			Dec-10	2010	Q4	-			-	1.20%	-	-
			Jan-11	2011	Q1	-			-	1.47%	-	-
			Feb-11	2011	Q1	-			-	1.47%	-	-
			Mar-11	2011	Q1	-			-	1.47%	-	-
			Apr-11	2011	Q2	-			-	1.47%	-	-
			May-11	2011	Q2	-			-	1.47%	-	-
			Jun-11	2011	Q2	-			-	1.47%	-	-
			Jul-11	2011	Q3	-			-	1.47%	-	-
			Aug-11	2011	Q3	-			-	1.47%	-	-
			Sep-11	2011	Q3	-			-	1.47%	-	-
			Oct-11	2011	Q4	-			-	1.47%	-	-
			Nov-11	2011	Q4	-			-	1.47%	-	-
			Dec-11	2011	Q4	-			-	1.47%	-	-
			Jan-12	2012	Q1	-			-	1.47%	-	-
			Feb-12	2012	Q1	-			-	1.47%	-	-
			Mar-12	2012	Q1	-			-	1.47%	-	-
			Apr-12	2012	Q2	-			-	1.47%	-	-
			May-12	2012	Q2	-			-	1.47%	-	-
			Jun-12	2012	Q2	-			-	1.47%	-	-
			Jul-12	2012	Q3	-			-	1.47%	-	-
			Aug-12	2012	Q3	-			-	1.47%	-	-
			Sep-12	2012	Q3	-			-	1.47%	-	-
			Oct-12	2012	Q4	-			-	1.47%	-	-
			Nov-12	2012	Q4	-			-	1.47%	-	-
			Dec-12	2012	Q4	-			-	1.47%	-	-
						\$	-	\$	-	\$	-	-



Ontario Energy Board

Smart Meter Model

Chatham-Kent Hydro Inc.

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

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense	Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
2006	\$ -	\$ -	\$ -	\$ -	4.37%	\$ -
2007	\$ -	\$ -	\$ -	\$ -	4.73%	\$ -
2008	\$ -	\$ -	\$ -	\$ -	3.98%	\$ -
2009	\$ 7,934.94	\$ 20,822.15	\$ 28,757.09	\$ 14,378.54	1.14%	\$ 163.56
2010	\$ 31,470.61	\$ 69,592.36	\$ 129,820.05	\$ 79,288.57	0.80%	\$ 632.33
2011	\$ 27,216.72	\$ 100,608.18	\$ 257,644.95	\$ 193,732.50	1.47%	\$ 2,847.87
2012	\$ 7,016.89	\$ 103,675.95	\$ 368,337.78	\$ 312,991.37	1.47%	\$ 4,600.97
Cumulative Interest to 2011						\$ 3,643.75
Cumulative Interest to 2012						\$ 8,244.72



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

Check if applicable

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

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ -	\$ 49,868.88	\$ 166,554.31	\$ 223,192.84	\$ 207,245.78	\$ 646,861.81
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ -	\$ 163.56	\$ 632.33	\$ 2,847.87		\$ 3,643.75
<input type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)								\$ -
<input checked="" type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)	\$ -	\$ -	\$ -	\$ 163.56	\$ 632.33	\$ 2,847.87		\$ 3,643.75
SMFA Revenues (from Sheet 8)	\$ -	\$ -	\$ -	\$ -	\$ 9,923.96	\$ 25,466.13	\$ 16,927.38	\$ 52,317.47
SMFA Interest (from Sheet 8)	\$ -	\$ -	\$ -	\$ -	\$ 21.89	\$ 275.77	\$ 718.50	\$ 1,016.16
Net Deferred Revenue Requirement	\$ -	\$ -	\$ -	\$ 50,032.44	\$ 157,240.78	\$ 200,298.81	\$ 189,599.90	\$ 597,171.93
Number of Metered Customers (average for 2012 test year)							3083	

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

Years for collection or refunding	3.5	
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 443,259.78	
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 53,333.63	
Net Deferred Revenue Requirement	\$ 389,926.15	
SMDR	November 1, 2012 to April 30, 2016	\$ 3.01
Check: Forecasted SMDR Revenues		\$ 389,752.86

Match

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

Incremental Revenue Requirement for 2012	\$ 207,245.78	
SMIRR	\$ 5.60	
Check: Forecasted SMIRR Revenues		\$ 207,177.60

Match

Entegrus Powerlines Inc.

SM Final Disposition – Draft Rate Order

Board File No.: EB-2012-0289

Date Filed: November 2, 2012

Attachment C
Smart Meter Model
CK GS>50kW



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Chapleau Public Utilities Corporation

Chatham-Kent Hydro Inc.

Application Contact Information

Name: Andrya Eagen

Title: Senior Regulatory Specialist

Phone Number: 519-352-6300 Ext 243

Email Address: andryaeagen@ckenergy.com

We are applying for rates effective: November 1, 2012

Last COS Re-based Year: 2010

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.



Chatham-Kent Hydro Inc.

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter Capital Cost and Operational Expense Data								
Smart Meter Installation Plan								
Actual/Planned number of Smart Meters installed during the Calendar Year								
Residential								0
General Service < 50 kW								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%	0.00%	0.00%	0.00%	
Actual/Planned number of GS > 50 kW meters installed				144	65	67		276
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	0	144	65	67	0	276
1 Capital Costs								
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type								
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter			107,132	48,358	49,846		\$ 205,337
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter			67,615	30,521	31,460		\$ 129,595
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
Total Advanced Metering Communications Devices (AMCD)				\$ 174,747	\$ 78,879	\$ 81,306		\$ 334,932
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
Asset Type								
1.2.1 Collectors								\$ -
1.2.2 Repeaters (may include radio licence, etc.)								\$ -
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)								\$ -
Total Advanced Metering Regional Collector (AMRC) (includes LAN)				\$ -	\$ -	\$ -	\$ -	\$ -
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)								
Asset Type								
1.3.1 Computer Hardware	Computer Hardware			3,199	1,444	1,489		\$ 6,132
1.3.2 Computer Software								\$ -
1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.)								\$ -
Total Advanced Metering Control Computer (AMCC)				\$ 3,199	\$ 1,444	\$ 1,489	\$ -	\$ 6,132
1.4 WIDE AREA NETWORK (WAN)								
Asset Type								
1.4.1 Activation Fees	Applications Software			5,723	2,583	2,663		\$ 10,970
Total Wide Area Network (WAN)				\$ 5,723	\$ 2,583	\$ 2,663	\$ -	\$ 10,970
1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY								
Asset Type								
1.5.1 Customer Equipment (including repair of damaged equipment)	Smart Meter			1,397	631	650		\$ 2,678
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				\$ 1,397	\$ 631	\$ 650	\$ -	\$ 2,678
Total Capital Costs Related to Minimum Functionality				\$ 185,067	\$ 83,537	\$ 86,108	\$ -	\$ 354,712
1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY								
Asset Type								
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06	Computer Software							\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Applications Software							\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDNR, etc.								\$ -
Total Capital Costs Beyond Minimum Functionality				\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter Capital Costs				\$ 185,067	\$ 83,537	\$ 86,108	\$ -	\$ 354,712
2 OM&A Expenses								
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type								
2.1.1 Maintenance (may include meter verification costs, etc.)				527	424	651	0	\$ 1,602
2.1.2 Other (please specify)								\$ -
Total Incremental AMCD OM&A Costs				\$ 527	\$ 424	\$ 651	\$ -	\$ 1,602



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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter Capital Cost and Operational Expense Data								
2.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
2.2.1 Maintenance								\$ -
2.2.2 Other (please specify)								\$ -
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)								
2.3.1 Hardware Maintenance (may include server support, etc.)				60	63	42	37	\$ 202
2.3.2 Software Maintenance (may include maintenance support, etc.)				234	175	114	839	\$ 1,362
2.3.2 Other (please specify)								\$ -
Total Incremental AMCC OM&A Costs	\$ -	\$ -	\$ -	\$ 294	\$ 238	\$ 156	\$ 876	\$ 1,564
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				8	0	0	0	\$ 8
2.5.6 Other AMI Expenses (please specify)				83	26	57		\$ 166
Total Other AMI OM&A Costs Related to Minimum Functionality	\$ -	\$ -	\$ -	\$ 91	\$ 26	\$ 57	\$ -	\$ 174
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY	\$ -	\$ -	\$ -	\$ 912	\$ 688	\$ 864	\$ 876	\$ 3,340
2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY								
<i>(Please provide a descriptive title and identify nature of beyond minimum functionality costs)</i>								
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.				0	0	0	0	\$ -
Total OM&A Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter OM&A Costs	\$ -	\$ -	\$ -	\$ 912	\$ 688	\$ 864	\$ 876	\$ 3,340
3 Aggregate Smart Meter Costs by Category								
3.1 Capital								
3.1.1 Smart Meter	\$ -	\$ -	\$ -	\$ 176,145	\$ 79,510	\$ 81,956	\$ -	\$ 337,610
3.1.2 Computer Hardware	\$ -	\$ -	\$ -	\$ 3,199	\$ 1,444	\$ 1,489	\$ -	\$ 6,132
3.1.3 Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.4 Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.5 Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.6 Applications Software	\$ -	\$ -	\$ -	\$ 5,723	\$ 2,583	\$ 2,663	\$ -	\$ 10,970
3.1.7 Total Capital Costs	\$ -	\$ -	\$ -	\$ 185,067	\$ 83,537	\$ 86,108	\$ -	\$ 354,712
3.2 OM&A Costs								
3.2.1 Total OM&A Costs	\$ -	\$ -	\$ -	\$ 912	\$ 688	\$ 864	\$ 876	\$ 3,340



Ontario Energy Board

Smart Meter Model

Chatham-Kent Hydro Inc.

	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure¹							
Deemed Short-term Debt Capitalization					4.0%	4.0%	4.0%
Deemed Long-term Debt Capitalization	50.0%	50.0%	53.3%	56.7%	56.0%	56.0%	56.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%
Preferred Shares	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate					2.07%	2.07%	2.07%
Long-term Debt Rate (actual/embedded/deemed) ²	7.04%	7.04%	7.04%	7.04%	5.87%	5.87%	5.87%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.85%	9.85%	9.85%
Return on Preferred Shares							
WACC	8.02%	8.02%	7.96%	7.89%	7.31%	7.31%	7.31%
Working Capital Allowance							
Working Capital Allowance Rate (% of the sum of Cost of Power + controllable expenses)	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates (expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	3	3	3	3	3	3	3
- rate (%)	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates							
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%

Assumptions

¹ Planned smart meter installations occur evenly throughout the year.

² Fiscal calendar year (January 1 to December 31) used.

³ Amortization is done on a straight line basis and has the "half-year" rule applied.



	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 176,145	\$ 255,654	\$ 337,610
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 176,145	\$ 79,510	\$ 81,956	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 176,145	\$ 255,654	\$ 337,610	\$ 337,610
Accumulated Depreciation							
Opening Balance		\$ -	\$ -	\$ -	\$ 5,871	\$ 20,265	\$ 40,040
Amortization expense during year	\$ -	\$ -	\$ -	\$ 5,871	\$ 14,393	\$ 19,775	\$ 22,507
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 5,871	\$ 20,265	\$ 40,040	\$ 62,548
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 170,273	\$ 235,390	\$ 297,570
Closing Balance	\$ -	\$ -	\$ -	\$ 170,273	\$ 235,390	\$ 297,570	\$ 275,063
Average Net Book Value	\$ -	\$ -	\$ -	\$ 85,137	\$ 202,831	\$ 266,480	\$ 286,316
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 3,199	\$ 4,643	\$ 6,132
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 3,199	\$ 1,444	\$ 1,489	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 3,199	\$ 4,643	\$ 6,132	\$ 6,132
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 320	\$ 1,104	\$ 2,182
Amortization expense during year	\$ -	\$ -	\$ -	\$ 320	\$ 784	\$ 1,078	\$ 1,226
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 320	\$ 1,104	\$ 2,182	\$ 3,408
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 2,879	\$ 3,539	\$ 3,950
Closing Balance	\$ -	\$ -	\$ -	\$ 2,879	\$ 3,539	\$ 3,950	\$ 2,724
Average Net Book Value	\$ -	\$ -	\$ -	\$ 1,440	\$ 3,209	\$ 3,745	\$ 3,337
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 5,723	\$ 8,307	\$ 10,970
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 5,723	\$ 2,583	\$ 2,663	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 5,723	\$ 8,307	\$ 10,970	\$ 10,970
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 954	\$ 3,292	\$ 6,505
Amortization expense during year	\$ -	\$ -	\$ -	\$ 954	\$ 2,338	\$ 3,213	\$ 3,657
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 954	\$ 3,292	\$ 6,505	\$ 10,162
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 4,769	\$ 5,015	\$ 4,465
Closing Balance	\$ -	\$ -	\$ -	\$ 4,769	\$ 5,015	\$ 4,465	\$ 808
Average Net Book Value	\$ -	\$ -	\$ -	\$ 2,385	\$ 4,892	\$ 4,740	\$ 2,636
Net Fixed Assets - Tools and Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Other Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Ontario Energy Board

Smart Meter Model

Chatham-Kent Hydro Inc.

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 85,137	\$ 202,831	\$ 266,480	\$ 286,316
Computer Hardware	\$ -	\$ -	\$ -	\$ 1,440	\$ 3,209	\$ 3,745	\$ 3,337
Computer Software	\$ -	\$ -	\$ -	\$ 2,385	\$ 4,892	\$ 4,740	\$ 2,636
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ -	\$ 88,961	\$ 210,933	\$ 274,964	\$ 292,290
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ -	\$ 912	\$ 688	\$ 864	\$ 876
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ -	\$ 137	\$ 103	\$ 130	\$ 131
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ -	\$ 89,098	\$ 211,036	\$ 275,094	\$ 292,421
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 8,441	\$ 11,004	\$ 11,697
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 50,518	\$ 118,180	\$ 154,053	\$ 163,756
Equity	\$ -	\$ -	\$ -	\$ 38,579	\$ 84,414	\$ 110,038	\$ 116,969
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ -	\$ 89,098	\$ 211,036	\$ 275,094	\$ 292,421
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ 175	\$ 228	\$ 242
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 3,556	\$ 6,937	\$ 9,043	\$ 9,612
Equity	\$ -	\$ -	\$ -	\$ 3,472	\$ 8,315	\$ 10,839	\$ 11,521
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ -	\$ 7,029	\$ 15,427	\$ 20,109	\$ 21,376
Operating Expenses	\$ -	\$ -	\$ -	\$ 912	\$ 688	\$ 864	\$ 876
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 5,871	\$ 14,393	\$ 19,775	\$ 22,507
Computer Hardware	\$ -	\$ -	\$ -	\$ 320	\$ 784	\$ 1,078	\$ 1,226
Computer Software	\$ -	\$ -	\$ -	\$ 954	\$ 2,338	\$ 3,213	\$ 3,657
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ -	\$ 7,145	\$ 17,516	\$ 24,066	\$ 27,390
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ -	\$ 15,086	\$ 33,631	\$ 45,039	\$ 49,642
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ -	\$ 912	\$ 688	\$ 864	\$ 876
Amortization Expense	\$ -	\$ -	\$ -	\$ 7,145	\$ 17,516	\$ 24,066	\$ 27,390
Interest Expense	\$ -	\$ -	\$ -	\$ 3,556	\$ 7,112	\$ 9,271	\$ 9,855
Net Income for Taxes/PILs	\$ -	\$ -	\$ -	\$ 3,472	\$ 8,315	\$ 10,839	\$ 11,521
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ -	\$ 218.20	\$ 1,617.83	\$ 3,500.93	\$ 4,665.26
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ -	\$ 15,304	\$ 35,248	\$ 48,540	\$ 54,307



For PILs Calculation

UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 169,098.80	\$ 231,900.22	\$ 292,026.11
Capital Additions	\$ -	\$ -	\$ -	\$ 176,144.58	\$ 79,509.71	\$ 81,956.16	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 176,144.58	\$ 248,608.51	\$ 313,856.38	\$ 292,026.11
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 88,072.29	\$ 39,754.85	\$ 40,978.08	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 88,072.29	\$ 208,853.65	\$ 272,878.30	\$ 292,026.11
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 7,045.78	\$ 16,708.29	\$ 21,830.26	\$ 23,362.09
Closing UCC	\$ -	\$ -	\$ -	\$ 169,098.80	\$ 231,900.22	\$ 292,026.11	\$ 268,664.02

UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 2,319.52	\$ 2,090.79	\$ 2,020.08
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 3,199.34	\$ 1,444.15	\$ 1,488.58	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 3,199.34	\$ 3,763.67	\$ 3,579.37	\$ 2,020.08
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 1,599.67	\$ 722.07	\$ 744.29	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 1,599.67	\$ 3,041.60	\$ 2,835.08	\$ 2,020.08
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ 879.82	\$ 1,672.88	\$ 1,559.30	\$ 1,111.04
Closing UCC	\$ -	\$ -	\$ -	\$ 2,319.52	\$ 2,090.79	\$ 2,020.08	\$ 909.04

UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
INCOME TAX							
Net Income	\$ -	\$ -	\$ -	\$ 3,472.14	\$ 8,314.81	\$ 10,838.70	\$ 11,521.40
Amortization	\$ -	\$ -	\$ -	\$ 7,145.32	\$ 17,515.95	\$ 24,065.82	\$ 27,390.38
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 7,045.78	\$ 16,708.29	\$ 21,830.26	\$ 23,362.09
CCA - Computers	\$ -	\$ -	\$ -	\$ 879.82	\$ 1,672.88	\$ 1,559.30	\$ 1,111.04
CCA - Applications Software	\$ -	\$ -	\$ -	\$ 2,861.69	\$ 4,153.42	\$ 2,623.21	\$ 1,331.48
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ -	\$ 169.83	\$ 3,296.17	\$ 8,891.75	\$ 13,107.17
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ -	\$ 56.04	\$ 1,021.81	\$ 2,511.92	\$ 3,440.63
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ -	\$ 170,273.10	\$ 235,389.51	\$ 297,570.18	\$ 275,062.82
Computer Hardware	\$ -	\$ -	\$ -	\$ 2,879.41	\$ 3,539.27	\$ 3,950.30	\$ 2,723.88
Computer Software (Including Application Software)	\$ -	\$ -	\$ -	\$ 4,769.48	\$ 5,014.58	\$ 4,464.76	\$ 808.16
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ -	\$ 177,921.98	\$ 243,943.36	\$ 305,985.24	\$ 278,594.86
Less: Exemption	\$ -	\$ -	\$ -	\$ 43,768.81	\$ 61,351.75	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ -	\$ 134,153.17	\$ 182,591.60	\$ 305,985.24	\$ 278,594.86
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ -	\$ 301.84	\$ 136.94	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 56.04	\$ 1,021.81	\$ 2,511.92	\$ 3,440.63
Change in OCT	\$ -	\$ -	\$ -	\$ 301.84	\$ 136.94	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 245.80	\$ 1,158.76	\$ 2,511.92	\$ 3,440.63
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 83.65	\$ 1,480.89	\$ 3,500.93	\$ 4,665.26
Change in OCT	\$ -	\$ -	\$ -	\$ 301.84	\$ 136.94	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 218.20	\$ 1,617.83	\$ 3,500.93	\$ 4,665.26



Ontario Energy Board
Smart Meter Model

Chatham-Kent Hydro Inc.

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ -		4.59%	\$ -	\$ -	\$ -	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ -		5.14%	\$ -	\$ -	\$ -	
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			May-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			Jun-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			Jul-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Aug-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Sep-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Oct-08	2008	Q4	\$ -		3.35%	\$ -	\$ -		
			Nov-08	2008	Q4	\$ -		3.35%	\$ -	\$ -		
			Dec-08	2008	Q4	\$ -		3.35%	\$ -	\$ -	\$ -	
			Jan-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Feb-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Mar-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Apr-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			May-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			Jun-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			Jul-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Aug-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Sep-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Oct-09	2009	Q4	\$ -		0.55%	\$ -	\$ -		
			Nov-09	2009	Q4	\$ -		0.55%	\$ -	\$ -		
			Dec-09	2009	Q4	\$ -		0.55%	\$ -	\$ -	\$ -	
			Jan-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Feb-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Mar-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Apr-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		
			May-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		\$ 0.51
			Jun-10	2010	Q2	\$ -	\$ 0.51	0.55%	\$ -	\$ 0.51		\$ 0.51
			Jul-10	2010	Q3	\$ 0.51	\$ 262.08	0.89%	\$ -	\$ 262.59		\$ 0.51
			Aug-10	2010	Q3	\$ 262.59	\$ 181.12	0.89%	\$ 0.19	\$ 443.90		\$ 0.51
			Sep-10	2010	Q3	\$ 443.71	\$ 126.79	0.89%	\$ 0.33	\$ 570.82		\$ 0.51
			Oct-10	2010	Q4	\$ 570.49	\$ 115.56	1.20%	\$ 0.57	\$ 686.62		\$ 0.51
			Nov-10	2010	Q4	\$ 686.05	\$ 116.33	1.20%	\$ 0.69	\$ 803.07		\$ 0.51
			Dec-10	2010	Q4	\$ 802.38	\$ 366.21	1.20%	\$ 0.80	\$ 1,169.39	\$ 1,171.17	\$ 0.51
			Jan-11	2011	Q1	\$ 1,168.59	\$ 116.06	1.47%	\$ 1.43	\$ 1,286.07		\$ 0.51
			Feb-11	2011	Q1	\$ 1,284.64	\$ 120.87	1.47%	\$ 1.57	\$ 1,407.08		\$ 0.51
			Mar-11	2011	Q1	\$ 1,405.51	\$ 119.76	1.47%	\$ 1.72	\$ 1,526.99		\$ 0.51
			Apr-11	2011	Q2	\$ 1,525.27	\$ 117.94	1.47%	\$ 1.87	\$ 1,645.08		\$ 0.51
			May-11	2011	Q2	\$ 1,643.21	\$ 108.66	1.47%	\$ 2.01	\$ 1,753.88		\$ 0.96
			Jun-11	2011	Q2	\$ 1,751.87	\$ 263.19	1.47%	\$ 2.15	\$ 2,017.20		\$ 0.96
			Jul-11	2011	Q3	\$ 2,015.05	\$ 292.03	1.47%	\$ 2.47	\$ 2,309.55		\$ 0.96
			Aug-11	2011	Q3	\$ 2,307.08	\$ 296.09	1.47%	\$ 2.83	\$ 2,606.00		\$ 0.96
			Sep-11	2011	Q3	\$ 2,603.17	\$ 302.25	1.47%	\$ 3.19	\$ 2,908.61		\$ 0.96
			Oct-11	2011	Q4	\$ 2,905.42	\$ 298.02	1.47%	\$ 3.56	\$ 3,206.99		\$ 0.96
			Nov-11	2011	Q4	\$ 3,203.43	\$ 300.77	1.47%	\$ 3.92	\$ 3,508.12		\$ 0.96
			Dec-11	2011	Q4	\$ 3,504.20	\$ 572.16	1.47%	\$ 4.29	\$ 4,080.65	\$ 2,938.78	\$ 0.96



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP				Opening Balance (Principal)	Funding Adder Revenues	Interest		Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
			Date	Year	Quarter			Rate	Interest			
			Jan-12	2012	Q1	\$ 4,076.36	\$ 567.52	1.47%	\$ 4.99	\$ 4,648.87		\$ 0.96
			Feb-12	2012	Q1	\$ 4,643.88	\$ 570.63	1.47%	\$ 5.69	\$ 5,220.20		\$ 0.96
			Mar-12	2012	Q1	\$ 5,214.51	\$ 575.95	1.47%	\$ 6.39	\$ 5,796.85		\$ 0.96
			Apr-12	2012	Q2	\$ 5,790.46	\$ 572.59	1.47%	\$ 7.09	\$ 6,370.14		\$ 0.96
			May-12	2012	Q2	\$ 6,363.05	\$ 35.05	1.47%	\$ 7.79	\$ 6,335.79		
			Jun-12	2012	Q2	\$ 6,328.00	\$ -	1.47%	\$ 7.75	\$ 6,335.75		
			Jul-12	2012	Q3	\$ 6,328.00	\$ -	1.47%	\$ 7.75	\$ 6,335.75		
			Aug-12	2012	Q3	\$ 6,328.00	\$ -	1.47%	\$ 7.75	\$ 6,335.75		
			Sep-12	2012	Q3	\$ 6,328.00	\$ -	1.47%	\$ 7.75	\$ 6,335.75		
			Oct-12	2012	Q4	\$ 6,328.00	\$ -	1.47%	\$ 7.75	\$ 6,335.75		
			Nov-12	2012	Q4	\$ 6,328.00	\$ -	1.47%	\$ 7.75	\$ 6,335.75		
			Dec-12	2012	Q4	\$ 6,328.00	\$ -	1.47%	\$ 7.75	\$ 6,335.75	\$ 2,337.84	
Total Funding Adder Revenues Collected						\$ 6,328.00		\$ 119.79	\$ 6,447.79	\$ 6,447.79		



Chatham-Kent Hydro Inc.

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

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-			-	4.59%	-	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-			-	4.59%	-	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-			-	4.59%	-	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-			-	4.59%	-	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-			-	4.59%	-	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	-			-	5.14%	-	-
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	-			-	5.14%	-	-
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	-			-	5.14%	-	-
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	-			-	5.14%	-	-
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	-			-	4.08%	-	-
			May-08	2008	Q2	-			-	4.08%	-	-
			Jun-08	2008	Q2	-			-	4.08%	-	-
			Jul-08	2008	Q3	-			-	3.35%	-	-
			Aug-08	2008	Q3	-			-	3.35%	-	-
			Sep-08	2008	Q3	-			-	3.35%	-	-
			Oct-08	2008	Q4	-			-	3.35%	-	-
			Nov-08	2008	Q4	-			-	3.35%	-	-
			Dec-08	2008	Q4	-			-	3.35%	-	-
			Jan-09	2009	Q1	-			-	2.45%	-	-
			Feb-09	2009	Q1	-			-	2.45%	-	-
			Mar-09	2009	Q1	-			-	2.45%	-	-
			Apr-09	2009	Q2	-			-	1.00%	-	-
			May-09	2009	Q2	-			-	1.00%	-	-
			Jun-09	2009	Q2	-			-	1.00%	-	-
			Jul-09	2009	Q3	-			-	0.55%	-	-
			Aug-09	2009	Q3	-			-	0.55%	-	-
			Sep-09	2009	Q3	-			-	0.55%	-	-
			Oct-09	2009	Q4	-			-	0.55%	-	-
			Nov-09	2009	Q4	-			-	0.55%	-	-
			Dec-09	2009	Q4	-			-	0.55%	-	-
			Jan-10	2010	Q1	-			-	0.55%	-	-
			Feb-10	2010	Q1	-			-	0.55%	-	-
			Mar-10	2010	Q1	-			-	0.55%	-	-
			Apr-10	2010	Q2	-			-	0.55%	-	-
			May-10	2010	Q2	-			-	0.55%	-	-
			Jun-10	2010	Q2	-			-	0.55%	-	-
			Jul-10	2010	Q3	-			-	0.89%	-	-
			Aug-10	2010	Q3	-			-	0.89%	-	-
			Sep-10	2010	Q3	-			-	0.89%	-	-
			Oct-10	2010	Q4	-			-	1.20%	-	-
			Nov-10	2010	Q4	-			-	1.20%	-	-
			Dec-10	2010	Q4	-			-	1.20%	-	-
			Jan-11	2011	Q1	-			-	1.47%	-	-
			Feb-11	2011	Q1	-			-	1.47%	-	-
			Mar-11	2011	Q1	-			-	1.47%	-	-
			Apr-11	2011	Q2	-			-	1.47%	-	-
			May-11	2011	Q2	-			-	1.47%	-	-
			Jun-11	2011	Q2	-			-	1.47%	-	-
			Jul-11	2011	Q3	-			-	1.47%	-	-
			Aug-11	2011	Q3	-			-	1.47%	-	-
			Sep-11	2011	Q3	-			-	1.47%	-	-
			Oct-11	2011	Q4	-			-	1.47%	-	-
			Nov-11	2011	Q4	-			-	1.47%	-	-
			Dec-11	2011	Q4	-			-	1.47%	-	-
			Jan-12	2012	Q1	-			-	1.47%	-	-
			Feb-12	2012	Q1	-			-	1.47%	-	-
			Mar-12	2012	Q1	-			-	1.47%	-	-
			Apr-12	2012	Q2	-			-	1.47%	-	-
			May-12	2012	Q2	-			-	1.47%	-	-
			Jun-12	2012	Q2	-			-	1.47%	-	-
			Jul-12	2012	Q3	-			-	1.47%	-	-
			Aug-12	2012	Q3	-			-	1.47%	-	-
			Sep-12	2012	Q3	-			-	1.47%	-	-
			Oct-12	2012	Q4	-			-	1.47%	-	-
			Nov-12	2012	Q4	-			-	1.47%	-	-
			Dec-12	2012	Q4	-			-	1.47%	-	-
						\$	-	\$	-	\$	-	-



Ontario Energy Board

Smart Meter Model

Chatham-Kent Hydro Inc.

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

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense	Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
2006	\$ -	\$ -	\$ -	\$ -	4.37%	\$ -
2007	\$ -	\$ -	\$ -	\$ -	4.73%	\$ -
2008	\$ -	\$ -	\$ -	\$ -	3.98%	\$ -
2009	\$ 912.00	\$ 7,145.32	\$ 8,057.32	\$ 4,028.66	1.14%	\$ 45.83
2010	\$ 687.98	\$ 17,515.95	\$ 26,261.25	\$ 17,159.28	0.80%	\$ 136.85
2011	\$ 863.99	\$ 24,065.82	\$ 51,191.05	\$ 38,726.15	1.47%	\$ 569.27
2012	\$ 875.70	\$ 27,390.38	\$ 79,457.13	\$ 65,324.09	1.47%	\$ 960.26
Cumulative Interest to 2011						\$ 751.95
Cumulative Interest to 2012						\$ 1,712.21



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

Check if applicable

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

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ -	\$ 15,304.15	\$ 35,248.48	\$ 48,540.10	\$ 54,307.35	\$ 153,400.09
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ -	\$ 45.83	\$ 136.85	\$ 569.27		\$ 751.95
<input type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)								\$ -
<input checked="" type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)	\$ -	\$ -	\$ -	\$ 45.83	\$ 136.85	\$ 569.27		\$ 751.95
SMFA Revenues (from Sheet 8)	\$ -	\$ -	\$ -	\$ -	\$ 1,168.59	\$ 2,907.77	\$ 2,251.64	\$ 6,328.00
SMFA Interest (from Sheet 8)	\$ -	\$ -	\$ -	\$ -	\$ 2.58	\$ 31.01	\$ 86.20	\$ 119.79
Net Deferred Revenue Requirement	\$ -	\$ -	\$ -	\$ 15,349.98	\$ 34,214.16	\$ 46,170.59	\$ 51,969.51	\$ 147,704.24
Number of Metered Customers (average for 2012 test year)							400	

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

Years for collection or refunding	1
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 99,844.69
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 6,447.79
Net Deferred Revenue Requirement	\$ 93,396.90
SMDR November 1, 2012 to October 31, 2013	\$ 19.46
Check: Forecasted SMDR Revenues	\$ 93,408.00

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

Incremental Revenue Requirement for 2012	\$ 54,307.35
SMIRR	\$ 11.31
Check: Forecasted SMIRR Revenues	\$ 54,288.00

Entegrus Powerlines Inc.

SM Final Disposition – Draft Rate Order

Board File No.: EB-2012-0289

Date Filed: November 2, 2012

Attachment D
Smart Meter Model
SMP Residential



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Middlesex Power Distribution Corporation

Middlesex Power Distribution Corporation - Dutton

Application Contact Information

Name: Andrya Eagen

Title: Senior Regulatory Specialist

Phone Number: 519-352-6300 Ext 243

Email Address: andryaeagen@ckenergy.com

We are applying for rates effective: November 1, 2012

Last COS Re-based Year 2006

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.



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

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

Smart Meter Capital Cost and Operational Expense Data	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter Installation Plan								
Actual/Planned number of Smart Meters installed during the Calendar Year								
Residential			754	92				846
General Service < 50 kW								0
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	754	92	0	0	0	846
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	89.13%	100.00%	0.00%	100.00%	0.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed								0
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	754	92	0	0	0	846
1 Capital Costs								
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type								
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter		38,689	4,721	0	0		\$ 43,410
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter		52,539	6,411	0	0		\$ 58,949
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
Total Advanced Metering Communications Devices (AMCD)			\$ 91,228	\$ 11,131	\$ -	\$ -	\$ -	\$ 102,359
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
Asset Type								
1.2.1 Collectors								\$ -
1.2.2 Repeaters (may include radio licence, etc.)								\$ -
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)								\$ -
Total Advanced Metering Regional Collector (AMRC) (includes LAN)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)								
Asset Type								
1.3.1 Computer Hardware								\$ -
1.3.2 Computer Software								\$ -
1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.)								\$ -
Total Advanced Metering Control Computer (AMCC)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.4 WIDE AREA NETWORK (WAN)								
Asset Type								
1.4.1 Activation Fees	Applications Software		6,485	791	0	0		\$ 7,276
Total Wide Area Network (WAN)			\$ 6,485	\$ 791	\$ -	\$ -	\$ -	\$ 7,276
1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY								
Asset Type								
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			\$ 97,713	\$ 11,923	\$ -	\$ -	\$ -	\$ 109,636
1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY								
Asset Type								
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06	Computer Software							\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Applications Software							\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDNR, etc.								\$ -
Total Capital Costs Beyond Minimum Functionality			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter Capital Costs			\$ 97,713	\$ 11,923	\$ -	\$ -	\$ -	\$ 109,636
2 OM&A Expenses								
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type								
2.1.1 Maintenance (may include meter re-verification costs, etc.)			9,574	9,148	7,350	11,301	0	\$ 37,373
2.1.2 Other (please specify)								\$ -
Total Incremental AMCD OM&A Costs			\$ 9,574	\$ 9,148	\$ 7,350	\$ 11,301	\$ -	\$ 37,373



Ontario Energy Board
Smart Meter Model

Middlesex Power Distribution Corporation

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

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

Smart Meter Capital Cost and Operational Expense Data

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
2.2.1 Maintenance								\$ -
2.2.2 Other (please specify)								\$ -
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

2.3.1 Hardware Maintenance (may include server support, etc.)			8,012	1,042	1,093	733	641	\$ 11,521
2.3.2 Software Maintenance (may include maintenance support, etc.)			17,574	4,058	3,043	1,977	14,555	\$ 41,207
2.3.2 Other (please specify)								\$ -
Total Incremental AMCC OM&A Costs	\$ -	\$ -	\$ 25,586	\$ 5,100	\$ 4,136	\$ 2,709	\$ 15,196	\$ 82,728

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			35,958	137	0	0	0	\$ 36,095
2.5.6 Other AMI Expenses (please specify)			2,145	1,440	452	982	0	\$ 5,020
Total Other AMI OM&A Costs Related to Minimum Functionality	\$ -	\$ -	\$ 38,103	\$ 1,578	\$ 452	\$ 982	\$ -	\$ 41,115
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY	\$ -	\$ -	\$ 73,262	\$ 15,826	\$ 11,939	\$ 14,993	\$ 15,196	\$ 131,216

2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY

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

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

2.6.2 Costs for deployment of smart meters to customers other than residential and small general service								\$ -
2.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDMR, etc.			0	1,358	56,216	43,949	0	\$ 101,523
Total OM&A Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ 1,358	\$ 56,216	\$ 43,949	\$ -	\$ 101,523
Total Smart Meter OM&A Costs	\$ -	\$ -	\$ 73,262	\$ 17,184	\$ 68,154	\$ 58,942	\$ 15,196	\$ 232,739

3 Aggregate Smart Meter Costs by Category

3.1	Capital								
3.1.1	Smart Meter	\$ -	\$ -	\$ 91,228	\$ 11,131	\$ -	\$ -	\$ -	\$ 102,359
3.1.2	Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.3	Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.4	Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.5	Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.6	Applications Software	\$ -	\$ -	\$ 6,485	\$ 791	\$ -	\$ -	\$ -	\$ 7,276
3.1.7	Total Capital Costs	\$ -	\$ -	\$ 97,713	\$ 11,923	\$ -	\$ -	\$ -	\$ 109,636
3.2	OM&A Costs								
3.2.1	Total OM&A Costs	\$ -	\$ -	\$ 73,262	\$ 17,184	\$ 68,154	\$ 58,942	\$ 15,196	\$ 232,739



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure¹							
Deemed Short-term Debt Capitalization							
Deemed Long-term Debt Capitalization	50.0%	50.0%	53.3%	56.7%	60.0%	60.0%	60.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%
Preferred Shares	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate							
Long-term Debt Rate (actual/embedded/deemed) ²	7.25%	7.25%	7.25%	7.25%	7.25%	7.25%	7.25%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%
Return on Preferred Shares							
WACC	8.13%	8.13%	8.07%	8.01%	7.95%	7.95%	7.95%
Working Capital Allowance							
Working Capital Allowance Rate (% of the sum of Cost of Power + controllable expenses)	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates (expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	3	3	3	3	3	3	3
- rate (%)	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates							
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%

Assumptions

¹ Planned smart meter installations occur evenly throughout the year.

² Fiscal calendar year (January 1 to December 31) used.

³ Amortization is done on a straight line basis and has the "half-year" rule applied.



	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ 91,228	\$ 102,359	\$ 102,359	\$ 102,359
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ 91,228	\$ 11,131	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 91,228	\$ 102,359	\$ 102,359	\$ 102,359	\$ 102,359
Accumulated Depreciation							
Opening Balance		\$ -	\$ -	\$ 3,041	\$ 9,494	\$ 16,318	\$ 23,142
Amortization expense during year	\$ -	\$ -	\$ 3,041	\$ 6,453	\$ 6,824	\$ 6,824	\$ 6,824
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 3,041	\$ 9,494	\$ 16,318	\$ 23,142	\$ 29,966
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ 88,187	\$ 92,865	\$ 86,041	\$ 79,218
Closing Balance	\$ -	\$ -	\$ 88,187	\$ 92,865	\$ 86,041	\$ 79,218	\$ 72,394
Average Net Book Value	\$ -	\$ -	\$ 44,094	\$ 90,526	\$ 89,453	\$ 82,629	\$ 75,806
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ 6,485	\$ 7,276	\$ 7,276	\$ 7,276
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ 6,485	\$ 791	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 6,485	\$ 7,276	\$ 7,276	\$ 7,276	\$ 7,276
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ 1,081	\$ 3,374	\$ 5,800	\$ 7,276
Amortization expense during year	\$ -	\$ -	\$ 1,081	\$ 2,294	\$ 2,425	\$ 1,477	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 1,081	\$ 3,374	\$ 5,800	\$ 7,276	\$ 7,276
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ 5,404	\$ 3,902	\$ 1,477	\$ -
Closing Balance	\$ -	\$ -	\$ 5,404	\$ 3,902	\$ 1,477	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ 2,702	\$ 4,653	\$ 2,689	\$ 738	\$ -
Net Fixed Assets - Tools and Equipment							
Gross Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Other Equipment							
Gross Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ 44,094	\$ 90,526	\$ 89,453	\$ 82,629	\$ 75,806
Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Computer Software	\$ -	\$ -	\$ 2,702	\$ 4,653	\$ 2,689	\$ 738	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ 46,796	\$ 95,179	\$ 92,143	\$ 83,368	\$ 75,806
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ 73,262	\$ 17,184	\$ 68,154	\$ 58,942	\$ 15,196
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ 10,989	\$ 2,578	\$ 10,223	\$ 8,841	\$ 2,279
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ 57,785	\$ 97,757	\$ 102,366	\$ 92,209	\$ 78,085
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ 30,799	\$ 55,428	\$ 61,419	\$ 55,325	\$ 46,851
Equity	\$ -	\$ -	\$ 26,986	\$ 42,329	\$ 40,946	\$ 36,884	\$ 31,234
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ 57,785	\$ 97,757	\$ 102,366	\$ 92,209	\$ 78,085
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ 2,233	\$ 4,019	\$ 4,453	\$ 4,011	\$ 3,397
Equity	\$ -	\$ -	\$ 2,429	\$ 3,810	\$ 3,685	\$ 3,320	\$ 2,811
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ 4,662	\$ 7,828	\$ 8,138	\$ 7,331	\$ 6,208
Operating Expenses	\$ -	\$ -	\$ 73,262	\$ 17,184	\$ 68,154	\$ 58,942	\$ 15,196
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ 3,041	\$ 6,453	\$ 6,824	\$ 6,824	\$ 6,824
Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Computer Software	\$ -	\$ -	\$ 1,081	\$ 2,294	\$ 2,425	\$ 1,477	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ 4,122	\$ 8,747	\$ 9,249	\$ 8,300	\$ 6,824
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ 82,046	\$ 33,759	\$ 85,542	\$ 74,573	\$ 28,228
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ 73,262	\$ 17,184	\$ 68,154	\$ 58,942	\$ 15,196
Amortization Expense	\$ -	\$ -	\$ 4,122	\$ 8,747	\$ 9,249	\$ 8,300	\$ 6,824
Interest Expense	\$ -	\$ -	\$ 2,233	\$ 4,019	\$ 4,453	\$ 4,011	\$ 3,397
Net Income for Taxes/PILs	\$ -	\$ -	\$ 2,429	\$ 3,810	\$ 3,685	\$ 3,320	\$ 2,811
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ 4.25	\$ 939.94	\$ 2,419.07	\$ 1,930.59	\$ 1,230.00
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ 82,042	\$ 34,699	\$ 87,961	\$ 76,503	\$ 29,458



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

For PILs Calculation

UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ 87,578.85	\$ 91,258.56	\$ 83,957.88	\$ 77,241.25
Capital Additions	\$ -	\$ -	\$ 91,227.97	\$ 11,131.26	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ 91,227.97	\$ 98,710.12	\$ 91,258.56	\$ 83,957.88	\$ 77,241.25
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ 45,613.99	\$ 5,565.63	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ 45,613.99	\$ 93,144.49	\$ 91,258.56	\$ 83,957.88	\$ 77,241.25
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ 3,649.12	\$ 7,451.56	\$ 7,300.68	\$ 6,716.63	\$ 6,179.30
Closing UCC	\$ -	\$ -	\$ 87,578.85	\$ 91,258.56	\$ 83,957.88	\$ 77,241.25	\$ 71,061.95

UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
INCOME TAX							
Net Income	\$ -	\$ -	\$ 2,428.71	\$ 3,809.59	\$ 3,685.17	\$ 3,319.52	\$ 2,811.06
Amortization	\$ -	\$ -	\$ 4,121.79	\$ 8,746.51	\$ 9,249.44	\$ 8,300.46	\$ 6,823.95
CCA - Smart Meters	\$ -	\$ -	\$ 3,649.12	\$ 7,451.56	\$ 7,300.68	\$ 6,716.63	\$ 6,179.30
CCA - Computers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA - Applications Software	\$ -	\$ -	\$ 3,242.58	\$ 3,638.23	\$ 395.65	\$ -	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ 341.20	\$ 1,466.31	\$ 5,238.27	\$ 4,903.35	\$ 3,455.71
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ 114.30	\$ 483.88	\$ 1,623.86	\$ 1,385.20	\$ 907.12
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ 88,187.04	\$ 92,865.40	\$ 86,041.45	\$ 79,217.50	\$ 72,393.55
Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Computer Software (Including Application Software)	\$ -	\$ -	\$ 5,404.31	\$ 3,901.99	\$ 1,476.51	\$ -	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ 93,591.35	\$ 96,767.39	\$ 87,517.96	\$ 79,217.50	\$ 72,393.55
Less: Exemption	\$ -	\$ -	\$ 19,086.90	\$ -	\$ -	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ 74,504.44	\$ 96,767.39	\$ 87,517.96	\$ 79,217.50	\$ 72,393.55
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ 167.63	\$ 217.73	\$ 65.64	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ 114.30	\$ 483.88	\$ 1,623.86	\$ 1,385.20	\$ 907.12
Change in OCT	\$ -	\$ -	\$ 167.63	\$ 217.73	\$ 65.64	\$ -	\$ -
PILs	\$ -	\$ -	\$ 53.33	\$ 701.61	\$ 1,689.50	\$ 1,385.20	\$ 907.12
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ 171.88	\$ 722.21	\$ 2,353.43	\$ 1,930.59	\$ 1,230.00
Change in OCT	\$ -	\$ -	\$ 167.63	\$ 217.73	\$ 65.64	\$ -	\$ -
PILs	\$ -	\$ -	\$ 4.25	\$ 939.94	\$ 2,419.07	\$ 1,930.59	\$ 1,230.00



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Approved Deferral and Variance						Opening Balance	Funding Adder	Interest				Board Approved
Interest Rates	Accounts	CWIP	Date	Year	Quarter	(Principal)	Revenues	Rate	Interest	Closing Balance	Annual amounts	Smart Meter Funding Adder (from Tariff)
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ -		4.59%	\$ -	\$ -	\$ -	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ -	\$ -	5.14%	\$ -	\$ -		
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ -	\$ -	5.14%	\$ -	\$ -	\$ -	
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ -	\$ -	5.14%	\$ -	\$ -	\$ -	
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ -	\$ -	5.14%	\$ -	\$ -		
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ -	\$ -	5.14%	\$ -	\$ -		
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	\$ -	\$ -	4.08%	\$ -	\$ -		
			May-08	2008	Q2	\$ -	\$ -	4.08%	\$ -	\$ -		
			Jun-08	2008	Q2	\$ -	\$ -	4.08%	\$ -	\$ -		
			Jul-08	2008	Q3	\$ -	\$ -	3.35%	\$ -	\$ -		
			Aug-08	2008	Q3	\$ -	\$ -	3.35%	\$ -	\$ -		
			Sep-08	2008	Q3	\$ -	\$ -	3.35%	\$ -	\$ -		
			Oct-08	2008	Q4	\$ -	\$ -	3.35%	\$ -	\$ -		
			Nov-08	2008	Q4	\$ -	\$ 7,959.44	3.35%	\$ -	\$ 7,959.44		\$ 1.26
			Dec-08	2008	Q4	\$ 7,959.44	\$ 7,615.23	3.35%	\$ 22.22	\$ 15,596.89	\$ 15,596.89	\$ 1.26
			Jan-09	2009	Q1	\$ 15,574.67	\$ 7,857.46	2.45%	\$ 31.80	\$ 23,463.93		\$ 1.26
			Feb-09	2009	Q1	\$ 23,432.13	\$ 7,837.44	2.45%	\$ 47.84	\$ 31,317.41		\$ 1.26
			Mar-09	2009	Q1	\$ 31,269.57	\$ 7,860.78	2.45%	\$ 63.84	\$ 39,194.19		\$ 1.26
			Apr-09	2009	Q2	\$ 39,130.35	\$ 7,849.43	1.00%	\$ 32.61	\$ 47,012.39		\$ 1.26
			May-09	2009	Q2	\$ 46,979.78	\$ 7,865.23	1.00%	\$ 39.15	\$ 54,884.16		\$ 1.26
			Jun-09	2009	Q2	\$ 54,845.01	\$ 7,874.63	1.00%	\$ 45.70	\$ 62,765.34		\$ 1.26
			Jul-09	2009	Q3	\$ 62,719.64	\$ 7,853.82	0.55%	\$ 28.75	\$ 70,602.21		\$ 1.26
			Aug-09	2009	Q3	\$ 70,573.46	\$ 7,900.85	0.55%	\$ 32.35	\$ 78,506.66		\$ 1.26
			Sep-09	2009	Q3	\$ 78,474.31	\$ 7,872.89	0.55%	\$ 35.97	\$ 86,383.17		\$ 1.26
			Oct-09	2009	Q4	\$ 86,347.20	\$ 7,906.09	0.55%	\$ 39.58	\$ 94,292.87		\$ 1.26
			Nov-09	2009	Q4	\$ 94,253.29	\$ 7,891.41	0.55%	\$ 43.20	\$ 102,187.90		\$ 1.26
			Dec-09	2009	Q4	\$ 102,144.70	\$ 11,222.14	0.55%	\$ 46.82	\$ 113,413.66	\$ 98,279.78	\$ 1.26
			Jan-10	2010	Q1	\$ 113,366.84	\$ 7,922.95	0.55%	\$ 51.96	\$ 121,341.75		\$ 1.26
			Feb-10	2010	Q1	\$ 121,289.79	\$ 7,931.61	0.55%	\$ 55.59	\$ 129,276.99		\$ 1.26
			Mar-10	2010	Q1	\$ 129,221.40	\$ 7,937.20	0.55%	\$ 59.23	\$ 137,217.83		\$ 1.26
			Apr-10	2010	Q2	\$ 137,158.60	\$ 7,953.53	0.55%	\$ 62.86	\$ 145,174.99		\$ 1.26
			May-10	2010	Q2	\$ 145,112.13	\$ 7,938.90	0.55%	\$ 66.51	\$ 153,117.54		\$ 1.26
			Jun-10	2010	Q2	\$ 153,051.03	\$ 7,939.19	0.55%	\$ 70.15	\$ 161,060.37		\$ 1.26
			Jul-10	2010	Q3	\$ 160,990.22	\$ 7,956.92	0.89%	\$ 119.40	\$ 169,066.54		\$ 1.26
			Aug-10	2010	Q3	\$ 168,947.14	\$ 7,953.47	0.89%	\$ 125.30	\$ 177,025.91		\$ 1.26
			Sep-10	2010	Q3	\$ 176,900.61	\$ 7,983.28	0.89%	\$ 131.20	\$ 185,015.09		\$ 1.26
			Oct-10	2010	Q4	\$ 184,883.89	\$ 7,977.45	1.20%	\$ 184.88	\$ 193,046.22		\$ 1.26
			Nov-10	2010	Q4	\$ 192,861.34	\$ 7,982.20	1.20%	\$ 192.86	\$ 201,036.40		\$ 1.26
			Dec-10	2010	Q4	\$ 200,843.54	\$ 8,782.49	1.20%	\$ 200.84	\$ 209,826.87	\$ 97,579.97	\$ 1.26
			Jan-11	2011	Q1	\$ 209,626.03	\$ 8,010.08	1.47%	\$ 256.79	\$ 217,892.90		\$ 1.26
			Feb-11	2011	Q1	\$ 217,636.11	\$ 8,001.66	1.47%	\$ 266.60	\$ 225,904.37		\$ 1.26
			Mar-11	2011	Q1	\$ 225,637.77	\$ 7,997.60	1.47%	\$ 276.41	\$ 233,911.78		\$ 1.26
			Apr-11	2011	Q2	\$ 233,635.37	\$ 7,991.84	1.47%	\$ 286.20	\$ 241,913.41		\$ 1.26
			May-11	2011	Q2	\$ 241,627.21	\$ 7,994.25	1.47%	\$ 295.99	\$ 249,917.45		\$ 1.18
			Jun-11	2011	Q2	\$ 249,621.46	\$ 7,600.10	1.47%	\$ 305.79	\$ 257,527.35		\$ 1.18
			Jul-11	2011	Q3	\$ 257,221.56	\$ 7,516.99	1.47%	\$ 315.10	\$ 265,053.65		\$ 1.18
			Aug-11	2011	Q3	\$ 264,738.55	\$ 7,512.15	1.47%	\$ 324.30	\$ 272,575.00		\$ 1.18
			Sep-11	2011	Q3	\$ 272,250.70	\$ 7,532.28	1.47%	\$ 333.51	\$ 280,116.49		\$ 1.18
			Oct-11	2011	Q4	\$ 279,782.98	\$ 7,537.12	1.47%	\$ 342.73	\$ 287,662.83		\$ 1.18
			Nov-11	2011	Q4	\$ 287,320.10	\$ 7,518.65	1.47%	\$ 351.97	\$ 295,190.72		\$ 1.18
			Dec-11	2011	Q4	\$ 294,838.75	\$ 6,192.67	1.47%	\$ 361.18	\$ 301,392.60	\$ 95,121.96	\$ 1.18



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP				Opening Balance (Principal)	Funding Adder Revenues	Interest		Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
			Date	Year	Quarter			Rate	Interest			
			Jan-12	2012	Q1	\$ 301,031.42	\$ 7,541.78	1.47%	\$ 368.76	\$ 308,941.96		\$ 1.18
			Feb-12	2012	Q1	\$ 308,573.20	\$ 7,554.65	1.47%	\$ 378.00	\$ 316,505.85		\$ 1.18
			Mar-12	2012	Q1	\$ 316,127.85	\$ 7,566.04	1.47%	\$ 387.26	\$ 324,081.15		\$ 1.18
			Apr-12	2012	Q2	\$ 323,693.89	\$ 7,541.94	1.47%	\$ 396.53	\$ 331,632.36		\$ 1.18
			May-12	2012	Q2	\$ 331,235.83	\$ 413.50	1.47%	\$ 405.76	\$ 331,228.09		
			Jun-12	2012	Q2	\$ 330,822.33	\$ -	1.47%	\$ 405.26	\$ 331,227.59		
			Jul-12	2012	Q3	\$ 330,822.33	\$ -	1.47%	\$ 405.26	\$ 331,227.59		
			Aug-12	2012	Q3	\$ 330,822.33	\$ -	1.47%	\$ 405.26	\$ 331,227.59		
			Sep-12	2012	Q3	\$ 330,822.33	\$ -	1.47%	\$ 405.26	\$ 331,227.59		
			Oct-12	2012	Q4	\$ 330,822.33	\$ -	1.47%	\$ 405.26	\$ 331,227.59		
			Nov-12	2012	Q4	\$ 330,822.33	\$ -	1.47%	\$ 405.26	\$ 331,227.59		
			Dec-12	2012	Q4	\$ 330,822.33	\$ -	1.47%	\$ 405.26	\$ 331,227.59	\$ 34,564.04	
Total Funding Adder Revenues Collected						\$ 330,822.33			\$ 10,320.31	\$ 341,142.64	\$ 341,142.64	



Middlesex Power Distribution Corporation

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

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-			-	4.59%	-	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-			-	4.59%	-	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-			-	4.59%	-	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-			-	4.59%	-	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-			-	4.59%	-	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	-			-	5.14%	-	-
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	-			-	5.14%	-	-
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	-			-	5.14%	-	-
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	-			-	5.14%	-	-
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	-			-	4.08%	-	-
			May-08	2008	Q2	-			-	4.08%	-	-
			Jun-08	2008	Q2	-			-	4.08%	-	-
			Jul-08	2008	Q3	-			-	3.35%	-	-
			Aug-08	2008	Q3	-			-	3.35%	-	-
			Sep-08	2008	Q3	-			-	3.35%	-	-
			Oct-08	2008	Q4	-			-	3.35%	-	-
			Nov-08	2008	Q4	-			-	3.35%	-	-
			Dec-08	2008	Q4	-			-	3.35%	-	-
			Jan-09	2009	Q1	-			-	2.45%	-	-
			Feb-09	2009	Q1	-			-	2.45%	-	-
			Mar-09	2009	Q1	-			-	2.45%	-	-
			Apr-09	2009	Q2	-			-	1.00%	-	-
			May-09	2009	Q2	-			-	1.00%	-	-
			Jun-09	2009	Q2	-			-	1.00%	-	-
			Jul-09	2009	Q3	-			-	0.55%	-	-
			Aug-09	2009	Q3	-			-	0.55%	-	-
			Sep-09	2009	Q3	-			-	0.55%	-	-
			Oct-09	2009	Q4	-			-	0.55%	-	-
			Nov-09	2009	Q4	-			-	0.55%	-	-
			Dec-09	2009	Q4	-			-	0.55%	-	-
			Jan-10	2010	Q1	-			-	0.55%	-	-
			Feb-10	2010	Q1	-			-	0.55%	-	-
			Mar-10	2010	Q1	-			-	0.55%	-	-
			Apr-10	2010	Q2	-			-	0.55%	-	-
			May-10	2010	Q2	-			-	0.55%	-	-
			Jun-10	2010	Q2	-			-	0.55%	-	-
			Jul-10	2010	Q3	-			-	0.89%	-	-
			Aug-10	2010	Q3	-			-	0.89%	-	-
			Sep-10	2010	Q3	-			-	0.89%	-	-
			Oct-10	2010	Q4	-			-	1.20%	-	-
			Nov-10	2010	Q4	-			-	1.20%	-	-
			Dec-10	2010	Q4	-			-	1.20%	-	-
			Jan-11	2011	Q1	-			-	1.47%	-	-
			Feb-11	2011	Q1	-			-	1.47%	-	-
			Mar-11	2011	Q1	-			-	1.47%	-	-
			Apr-11	2011	Q2	-			-	1.47%	-	-
			May-11	2011	Q2	-			-	1.47%	-	-
			Jun-11	2011	Q2	-			-	1.47%	-	-
			Jul-11	2011	Q3	-			-	1.47%	-	-
			Aug-11	2011	Q3	-			-	1.47%	-	-
			Sep-11	2011	Q3	-			-	1.47%	-	-
			Oct-11	2011	Q4	-			-	1.47%	-	-
			Nov-11	2011	Q4	-			-	1.47%	-	-
			Dec-11	2011	Q4	-			-	1.47%	-	-
			Jan-12	2012	Q1	-			-	1.47%	-	-
			Feb-12	2012	Q1	-			-	1.47%	-	-
			Mar-12	2012	Q1	-			-	1.47%	-	-
			Apr-12	2012	Q2	-			-	1.47%	-	-
			May-12	2012	Q2	-			-	1.47%	-	-
			Jun-12	2012	Q2	-			-	1.47%	-	-
			Jul-12	2012	Q3	-			-	1.47%	-	-
			Aug-12	2012	Q3	-			-	1.47%	-	-
			Sep-12	2012	Q3	-			-	1.47%	-	-
			Oct-12	2012	Q4	-			-	1.47%	-	-
			Nov-12	2012	Q4	-			-	1.47%	-	-
			Dec-12	2012	Q4	-			-	1.47%	-	-
						\$	-	\$	-	\$	-	-



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

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

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense	Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
2006	\$ -	\$ -	\$ -	\$ -	4.37%	\$ -
2007	\$ -	\$ -	\$ -	\$ -	4.73%	\$ -
2008	\$ 73,262.48	\$ 4,121.79	\$ 77,384.27	\$ 38,692.13	3.98%	\$ 1,539.95
2009	\$ 17,184.29	\$ 8,746.51	\$ 103,315.07	\$ 90,349.67	1.14%	\$ 1,027.73
2010	\$ 68,154.26	\$ 9,249.44	\$ 180,718.76	\$ 142,016.91	0.80%	\$ 1,132.58
2011	\$ 58,941.83	\$ 8,300.46	\$ 247,961.05	\$ 214,339.91	1.47%	\$ 3,150.80
2012	\$ 15,196.11	\$ 6,823.95	\$ 269,981.11	\$ 258,971.08	1.47%	\$ 3,806.87
Cumulative Interest to 2011						\$ 6,851.06
Cumulative Interest to 2012						\$ 10,657.93



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

Check if applicable

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

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ 82,041.68	\$ 34,698.87	\$ 87,960.85	\$ 76,503.49	\$ 29,457.81	\$ 310,662.70
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B)	\$ -	\$ -	\$ 1,539.95	\$ 1,027.73	\$ 1,132.58	\$ 3,150.80		\$ 6,851.06
(Check one of the boxes below)								
<input type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)								\$ -
<input checked="" type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)	\$ -	\$ -	\$ 1,539.95	\$ 1,027.73	\$ 1,132.58	\$ 3,150.80		\$ 6,851.06
SMFA Revenues (from Sheet 8)	\$ -	\$ -	\$ 15,574.67	\$ 97,792.17	\$ 96,259.19	\$ 91,405.39	\$ 29,790.91	\$ 330,822.33
SMFA Interest (from Sheet 8)	\$ -	\$ -	\$ 22.22	\$ 487.61	\$ 1,320.78	\$ 3,716.57	\$ 4,773.13	\$ 10,320.31
Net Deferred Revenue Requirement	\$ -	\$ -	\$ 67,984.74	\$ 62,553.18	\$ 8,486.54	\$ 15,467.67	\$ 5,106.23	\$ 23,628.88
Number of Metered Customers (average for 2012 test year)							6422	

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

Years for collection or refunding	1	
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 288,055.95	
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 341,142.64	
Net Deferred Revenue Requirement	-\$ 53,086.69	} Match
SMDR November 1, 2012 to October 31, 2013	-\$ 0.69	
Check: Forecasted SMDR Revenues	-\$ 53,174.16	

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

Incremental Revenue Requirement for 2012	\$ 29,457.81	} Match
SMIRR	\$ 0.38	
Check: Forecasted SMIRR Revenues	\$ 29,284.32	

Entegrus Powerlines Inc.

SM Final Disposition – Draft Rate Order

Board File No.: EB-2012-0289

Date Filed: November 2, 2012

Attachment E
Smart Meter Model
SMP GS<50kW



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Middlesex Power Distribution Corporation

Middlesex Power Distribution Corporation - Dutton

Application Contact Information

Name: Andrya Eagen

Title: Senior Regulatory Specialist

Phone Number: 519-352-6300 Ext 243

Email Address: andryaeagen@ckenergy.com

We are applying for rates effective: November 1, 2012

Last COS Re-based Year 2006

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.



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

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

Smart Meter Capital Cost and Operational Expense Data	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter Installation Plan								
Actual/Planned number of Smart Meters installed during the Calendar Year								
Residential								0
General Service < 50 kW			267	88	300	20		675
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	267	88	300	20	0	675
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	39.56%	52.59%	97.04%	100.00%	0.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed								0
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	267	88	300	20	0	675
1 Capital Costs								
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type								
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter		86,331	28,454	97,002	6,467		\$ 218,254
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter		17,148	5,652	19,267	1,284		\$ 43,351
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
Total Advanced Metering Communications Devices (AMCD)			\$ 103,479	\$ 34,106	\$ 116,269	\$ 7,751	\$ -	\$ 261,605
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
Asset Type								
1.2.1 Collectors								\$ -
1.2.2 Repeaters (may include radio licences, etc.)	Computer Hardware		2,253	743	2,532	169		\$ 5,696
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)								\$ -
Total Advanced Metering Regional Collector (AMRC) (includes LAN)			\$ 2,253	\$ 743	\$ 2,532	\$ 169	\$ -	\$ 5,696
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)								
Asset Type								
1.3.1 Computer Hardware								\$ -
1.3.2 Computer Software	Computer Software		1,688	556	1,897	126		\$ 4,268
1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.)								\$ -
Total Advanced Metering Control Computer (AMCC)			\$ 1,688	\$ 556	\$ 1,897	\$ 126	\$ -	\$ 4,268
1.4 WIDE AREA NETWORK (WAN)								
Asset Type								
1.4.1 Activation Fees	Applications Software		1,954	644	2,195	146		\$ 4,939
Total Wide Area Network (WAN)			\$ 1,954	\$ 644	\$ 2,195	\$ 146	\$ -	\$ 4,939
1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY								
Asset Type								
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			\$ 109,375	\$ 36,049	\$ 122,893	\$ 8,193	\$ -	\$ 276,509
1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY								
Asset Type								
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06	Computer Software							\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Applications Software							\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDNR, etc.								\$ -
Total Capital Costs Beyond Minimum Functionality			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter Capital Costs			\$ 109,375	\$ 36,049	\$ 122,893	\$ 8,193	\$ -	\$ 276,509
2 OM&A Expenses								
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type								
2.1.1 Maintenance (may include meter verification costs, etc.)			960	917	737	1,133	0	\$ 3,747
2.1.2 Other (please specify)								\$ -
Total Incremental AMCD OM&A Costs			\$ 960	\$ 917	\$ 737	\$ 1,133	\$ -	\$ 3,747



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Smart Meter Model

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

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

Smart Meter Capital Cost and Operational Expense Data

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

2.2.1 Maintenance

2.2.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

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

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

2.3.2 Other (please specify)

Total Incremental AMCC OM&A Costs

2.4 WIDE AREA NETWORK (WAN)

2.4.1 WAN Maintenance

2.4.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.5 OTHER AMI OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.5.1 Business Process Redesign

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

2.5.3 Program Management

2.5.4 Change Management (may include training, etc.)

2.5.5 Administration Costs

2.5.6 Other AMI Expenses

(please specify)

Total Other AMI OM&A Costs Related to Minimum Functionality

TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY

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

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

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

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

Total OM&A Costs Beyond Minimum Functionality

Total Smart Meter OM&A Costs

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
			803	104	110	73	64	\$ 1,155
			1,762	407	305	198	1,459	\$ 4,131
								\$ -
	\$ -	\$ -	\$ 2,565	\$ 511	\$ 415	\$ 272	\$ 1,523	\$ 5,286
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
								\$ -
								\$ -
			3,605	14	0	0	0	\$ 3,619
			215	144	45	98	0	\$ 503
	\$ -	\$ -	\$ 3,820	\$ 158	\$ 45	\$ 98	\$ -	\$ 4,122
	\$ -	\$ -	\$ 7,345	\$ 1,587	\$ 1,197	\$ 1,503	\$ 1,523	\$ 13,155
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual		
								\$ -
								\$ -
			0	136	5,636	4,406	0	\$ 10,178
	\$ -	\$ -	\$ -	\$ 136	\$ 5,636	\$ 4,406	\$ -	\$ 10,178
	\$ -	\$ -	\$ 7,345	\$ 1,723	\$ 6,833	\$ 5,909	\$ 1,523	\$ 23,333

3 Aggregate Smart Meter Costs by Category

3.1

Capital

3.1.1 Smart Meter

3.1.2 Computer Hardware

3.1.3 Computer Software

3.1.4 Tools & Equipment

3.1.5 Other Equipment

3.1.6 Applications Software

3.1.7 Total Capital Costs

3.2 OM&A Costs

3.2.1 Total OM&A Costs

\$ -	\$ -	\$ 103,479	\$ 34,105	\$ 116,269	\$ 7,751	\$ -	\$ 261,605
\$ -	\$ -	\$ 2,253	\$ 743	\$ 2,532	\$ 169	\$ -	\$ 5,696
\$ -	\$ -	\$ 1,688	\$ 556	\$ 1,897	\$ 126	\$ -	\$ 4,268
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ 1,954	\$ 644	\$ 2,195	\$ 146	\$ -	\$ 4,939
\$ -	\$ -	\$ 109,379	\$ 36,049	\$ 122,893	\$ 8,193	\$ -	\$ 276,509
\$ -	\$ -	\$ 7,345	\$ 1,723	\$ 6,833	\$ 5,909	\$ 1,523	\$ 23,333



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure¹							
Deemed Short-term Debt Capitalization							
Deemed Long-term Debt Capitalization	50.0%	50.0%	53.3%	56.7%	60.0%	60.0%	60.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%
Preferred Shares	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate							
Long-term Debt Rate (actual/embedded/deemed) ²	7.25%	7.25%	7.25%	7.25%	7.25%	7.25%	7.25%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%
Return on Preferred Shares							
WACC	8.13%	8.13%	8.07%	8.01%	7.95%	7.95%	7.95%
Working Capital Allowance							
Working Capital Allowance Rate (% of the sum of Cost of Power + controllable expenses)	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates (expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	3	3	3	3	3	3	3
- rate (%)	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates							
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%

Assumptions

¹ Planned smart meter installations occur evenly throughout the year.

² Fiscal calendar year (January 1 to December 31) used.

³ Amortization is done on a straight line basis and has the "half-year" rule applied.



	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ 103,479	\$ 137,585	\$ 253,853	\$ 261,605
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ 103,479	\$ 34,105	\$ 116,269	\$ 7,751	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 103,479	\$ 137,585	\$ 253,853	\$ 261,605	\$ 261,605
Accumulated Depreciation							
Opening Balance		\$ -	\$ -	\$ 3,449	\$ 11,485	\$ 24,533	\$ 41,715
Amortization expense during year	\$ -	\$ -	\$ 3,449	\$ 8,035	\$ 13,048	\$ 17,182	\$ 17,440
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 3,449	\$ 11,485	\$ 24,533	\$ 41,715	\$ 59,155
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ 100,030	\$ 126,100	\$ 229,321	\$ 219,890
Closing Balance	\$ -	\$ -	\$ 100,030	\$ 126,100	\$ 229,321	\$ 219,890	\$ 202,450
Average Net Book Value	\$ -	\$ -	\$ 50,015	\$ 113,065	\$ 177,710	\$ 224,605	\$ 211,170
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ 2,253	\$ 2,996	\$ 5,528	\$ 5,696
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ 2,253	\$ 743	\$ 2,532	\$ 169	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 2,253	\$ 2,996	\$ 5,528	\$ 5,696	\$ 5,696
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ 225	\$ 750	\$ 1,603	\$ 2,725
Amortization expense during year	\$ -	\$ -	\$ 225	\$ 525	\$ 852	\$ 1,122	\$ 1,139
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 225	\$ 750	\$ 1,603	\$ 2,725	\$ 3,864
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ 2,028	\$ 2,246	\$ 3,925	\$ 2,971
Closing Balance	\$ -	\$ -	\$ 2,028	\$ 2,246	\$ 3,925	\$ 2,971	\$ 1,832
Average Net Book Value	\$ -	\$ -	\$ 1,014	\$ 2,137	\$ 3,085	\$ 3,448	\$ 2,402
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ 3,642	\$ 4,843	\$ 8,935	\$ 9,208
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ 3,642	\$ 1,200	\$ 4,092	\$ 273	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 3,642	\$ 4,843	\$ 8,935	\$ 9,208	\$ 9,208
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ 607	\$ 2,021	\$ 4,317	\$ 7,341
Amortization expense during year	\$ -	\$ -	\$ 607	\$ 1,414	\$ 2,296	\$ 3,024	\$ 1,867
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 607	\$ 2,021	\$ 4,317	\$ 7,341	\$ 9,208
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ 3,035	\$ 2,821	\$ 4,618	\$ 1,867
Closing Balance	\$ -	\$ -	\$ 3,035	\$ 2,821	\$ 4,618	\$ 1,867	\$ -
Average Net Book Value	\$ -	\$ -	\$ 1,518	\$ 2,928	\$ 3,720	\$ 3,242	\$ 933
Net Fixed Assets - Tools and Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Other Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Ontario Energy Board
Smart Meter Model

Middlesex Power Distribution Corporation

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ 50,015	\$ 113,065	\$ 177,710	\$ 224,605	\$ 211,170
Computer Hardware	\$ -	\$ -	\$ 1,014	\$ 2,137	\$ 3,085	\$ 3,448	\$ 2,402
Computer Software	\$ -	\$ -	\$ 1,518	\$ 2,928	\$ 3,720	\$ 3,242	\$ 933
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ 52,546	\$ 118,130	\$ 184,515	\$ 231,296	\$ 214,505
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ 7,345	\$ 1,723	\$ 6,833	\$ 5,909	\$ 1,523
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ 1,102	\$ 258	\$ 1,025	\$ 886	\$ 229
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ 53,648	\$ 118,388	\$ 185,540	\$ 232,182	\$ 214,733
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ 28,594	\$ 67,126	\$ 111,324	\$ 139,309	\$ 128,840
Equity	\$ -	\$ -	\$ 25,054	\$ 51,262	\$ 74,216	\$ 92,873	\$ 85,893
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ 53,648	\$ 118,388	\$ 185,540	\$ 232,182	\$ 214,733
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ 2,073	\$ 4,867	\$ 8,071	\$ 10,100	\$ 9,341
Equity	\$ -	\$ -	\$ 2,255	\$ 4,614	\$ 6,679	\$ 8,359	\$ 7,730
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ 4,328	\$ 9,480	\$ 14,750	\$ 18,458	\$ 17,071
Operating Expenses	\$ -	\$ -	\$ 7,345	\$ 1,723	\$ 6,833	\$ 5,909	\$ 1,523
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ 3,449	\$ 8,035	\$ 13,048	\$ 17,182	\$ 17,440
Computer Hardware	\$ -	\$ -	\$ 225	\$ 525	\$ 852	\$ 1,122	\$ 1,139
Computer Software	\$ -	\$ -	\$ 607	\$ 1,414	\$ 2,296	\$ 3,024	\$ 1,867
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ 4,282	\$ 9,975	\$ 16,197	\$ 21,328	\$ 20,446
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ 15,954	\$ 21,178	\$ 37,780	\$ 45,696	\$ 39,041
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ 7,345	\$ 1,723	\$ 6,833	\$ 5,909	\$ 1,523
Amortization Expense	\$ -	\$ -	\$ 4,282	\$ 9,975	\$ 16,197	\$ 21,328	\$ 20,446
Interest Expense	\$ -	\$ -	\$ 2,073	\$ 4,867	\$ 8,071	\$ 10,100	\$ 9,341
Net Income for Taxes/PILs	\$ -	\$ -	\$ 2,255	\$ 4,614	\$ 6,679	\$ 8,359	\$ 7,730
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ 357.74	\$ 1,304.25	\$ 2,169.44	\$ 3,048.07	\$ 3,462.19
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ 16,312	\$ 22,482	\$ 39,949	\$ 48,744	\$ 42,503



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

For PILs Calculation

UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ 99,339.99	\$ 124,134.06	\$ 225,821.30	\$ 215,196.79
Capital Additions	\$ -	\$ -	\$ 103,479.15	\$ 34,105.49	\$ 116,268.71	\$ 7,751.25	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ 103,479.15	\$ 133,445.48	\$ 240,402.77	\$ 233,572.54	\$ 215,196.79
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ 51,739.58	\$ 17,052.74	\$ 58,134.36	\$ 3,875.62	\$ -
Reduced UCC	\$ -	\$ -	\$ 51,739.58	\$ 116,392.73	\$ 182,268.41	\$ 229,696.92	\$ 215,196.79
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ 4,139.17	\$ 9,311.42	\$ 14,581.47	\$ 18,375.75	\$ 17,215.74
Closing UCC	\$ -	\$ -	\$ 99,339.99	\$ 124,134.06	\$ 225,821.30	\$ 215,196.79	\$ 197,981.05

UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ 2,857.72	\$ 2,227.84	\$ 4,213.45	\$ 2,110.11
Capital Additions Computer Hardware	\$ -	\$ -	\$ 2,253.27	\$ 742.65	\$ 2,531.76	\$ 168.78	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ 1,688.42	\$ 556.48	\$ 1,897.10	\$ 126.47	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ 3,941.68	\$ 4,156.85	\$ 6,656.70	\$ 4,508.71	\$ 2,110.11
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ 1,970.84	\$ 649.57	\$ 2,214.43	\$ 147.63	\$ -
Reduced UCC	\$ -	\$ -	\$ 1,970.84	\$ 3,507.29	\$ 4,442.27	\$ 4,361.08	\$ 2,110.11
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ 1,083.96	\$ 1,929.01	\$ 2,443.25	\$ 2,398.59	\$ 1,160.56
Closing UCC	\$ -	\$ -	\$ 2,857.72	\$ 2,227.84	\$ 4,213.45	\$ 2,110.11	\$ 949.55

UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
INCOME TAX							
Net Income	\$ -	\$ -	\$ 2,254.83	\$ 4,613.60	\$ 6,679.44	\$ 8,358.55	\$ 7,730.40
Amortization	\$ -	\$ -	\$ 4,281.67	\$ 9,974.52	\$ 16,196.57	\$ 21,328.16	\$ 20,446.18
CCA - Smart Meters	\$ -	\$ -	\$ 4,139.17	\$ 9,311.42	\$ 14,581.47	\$ 18,375.75	\$ 17,215.74
CCA - Computers	\$ -	\$ -	\$ 1,083.96	\$ 1,929.01	\$ 2,443.25	\$ 2,398.59	\$ 1,160.56
CCA - Applications Software	\$ -	\$ -	\$ 976.90	\$ 1,298.87	\$ 1,419.62	\$ 1,170.82	\$ 73.18
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ 336.47	\$ 2,048.82	\$ 4,431.67	\$ 7,741.55	\$ 9,727.10
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ 112.72	\$ 676.11	\$ 1,373.82	\$ 2,186.99	\$ 2,553.36
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ 100,029.85	\$ 126,099.88	\$ 229,320.66	\$ 219,889.97	\$ 202,449.66
Computer Hardware	\$ -	\$ -	\$ 2,027.94	\$ 2,245.67	\$ 3,925.07	\$ 2,971.44	\$ 1,832.15
Computer Software (Including Application Software)	\$ -	\$ -	\$ 3,035.18	\$ 2,821.47	\$ 4,617.57	\$ 1,866.58	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ 105,092.97	\$ 131,167.02	\$ 237,863.29	\$ 224,727.99	\$ 204,281.81
Less: Exemption	\$ -	\$ -	\$ 21,432.53	\$ -	\$ -	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ 83,660.44	\$ 131,167.02	\$ 237,863.29	\$ 224,727.99	\$ 204,281.81
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ 188.24	\$ 295.13	\$ 178.40	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ 112.72	\$ 676.11	\$ 1,373.82	\$ 2,186.99	\$ 2,553.36
Change in OCT	\$ -	\$ -	\$ 188.24	\$ 295.13	\$ 178.40	\$ -	\$ -
PILs	\$ -	\$ -	\$ 300.95	\$ 971.24	\$ 1,552.22	\$ 2,186.99	\$ 2,553.36
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ 169.50	\$ 1,009.12	\$ 1,991.04	\$ 3,048.07	\$ 3,462.19
Change in OCT	\$ -	\$ -	\$ 188.24	\$ 295.13	\$ 178.40	\$ -	\$ -
PILs	\$ -	\$ -	\$ 357.74	\$ 1,304.25	\$ 2,169.44	\$ 3,048.07	\$ 3,462.19



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ -		4.59%	\$ -	\$ -	\$ -	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ -	\$ -	5.14%	\$ -	\$ -		
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ -	\$ -	5.14%	\$ -	\$ -	\$ -	
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ -	\$ -	5.14%	\$ -	\$ -		
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ -	\$ -	5.14%	\$ -	\$ -		
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ -	\$ -	5.14%	\$ -	\$ -		
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	\$ -	\$ -	4.08%	\$ -	\$ -		
			May-08	2008	Q2	\$ -	\$ -	4.08%	\$ -	\$ -		
			Jun-08	2008	Q2	\$ -	\$ -	4.08%	\$ -	\$ -		
			Jul-08	2008	Q3	\$ -	\$ -	3.35%	\$ -	\$ -		
			Aug-08	2008	Q3	\$ -	\$ -	3.35%	\$ -	\$ -		
			Sep-08	2008	Q3	\$ -	\$ -	3.35%	\$ -	\$ -		
			Oct-08	2008	Q4	\$ -	\$ -	3.35%	\$ -	\$ -		
			Nov-08	2008	Q4	\$ -	\$ 831.49	3.35%	\$ -	\$ 831.49	\$ -	1.26
			Dec-08	2008	Q4	\$ 831.49	\$ 807.30	3.35%	\$ 2.32	\$ 1,641.11	\$ 1,641.11	\$ 1.26
			Jan-09	2009	Q1	\$ 1,638.79	\$ 843.74	2.45%	\$ 3.35	\$ 2,485.88	\$ -	1.26
			Feb-09	2009	Q1	\$ 2,482.53	\$ 840.33	2.45%	\$ 5.07	\$ 3,327.93	\$ -	1.26
			Mar-09	2009	Q1	\$ 3,322.86	\$ 843.32	2.45%	\$ 6.78	\$ 4,172.96	\$ -	1.26
			Apr-09	2009	Q2	\$ 4,166.18	\$ 840.42	1.00%	\$ 3.47	\$ 5,010.07	\$ -	1.26
			May-09	2009	Q2	\$ 5,006.60	\$ 839.46	1.00%	\$ 4.17	\$ 5,850.23	\$ -	1.26
			Jun-09	2009	Q2	\$ 5,846.06	\$ 843.36	1.00%	\$ 4.87	\$ 6,694.29	\$ -	1.26
			Jul-09	2009	Q3	\$ 6,689.42	\$ 839.26	0.55%	\$ 3.07	\$ 7,531.75	\$ -	1.26
			Aug-09	2009	Q3	\$ 7,528.68	\$ 838.03	0.55%	\$ 3.45	\$ 8,370.16	\$ -	1.26
			Sep-09	2009	Q3	\$ 8,366.71	\$ 832.20	0.55%	\$ 3.83	\$ 9,202.74	\$ -	1.26
			Oct-09	2009	Q4	\$ 9,198.91	\$ 836.63	0.55%	\$ 4.22	\$ 10,039.76	\$ -	1.26
			Nov-09	2009	Q4	\$ 10,035.54	\$ 829.84	0.55%	\$ 4.60	\$ 10,869.98	\$ -	1.26
			Dec-09	2009	Q4	\$ 10,865.38	\$ 1,186.91	0.55%	\$ 4.98	\$ 12,057.27	\$ 10,465.36	\$ 1.26
			Jan-10	2010	Q1	\$ 12,052.29	\$ 835.96	0.55%	\$ 5.52	\$ 12,893.77	\$ -	1.26
			Feb-10	2010	Q1	\$ 12,888.25	\$ 837.34	0.55%	\$ 5.91	\$ 13,731.50	\$ -	1.26
			Mar-10	2010	Q1	\$ 13,725.59	\$ 841.50	0.55%	\$ 6.29	\$ 14,573.38	\$ -	1.26
			Apr-10	2010	Q2	\$ 14,567.09	\$ 841.17	0.55%	\$ 6.68	\$ 15,414.94	\$ -	1.26
			May-10	2010	Q2	\$ 15,408.26	\$ 835.93	0.55%	\$ 7.06	\$ 16,251.25	\$ -	1.26
			Jun-10	2010	Q2	\$ 16,244.19	\$ 836.79	0.55%	\$ 7.45	\$ 17,088.43	\$ -	1.26
			Jul-10	2010	Q3	\$ 17,080.98	\$ 840.18	0.89%	\$ 12.67	\$ 17,933.83	\$ -	1.26
			Aug-10	2010	Q3	\$ 17,921.16	\$ 837.18	0.89%	\$ 13.29	\$ 18,771.63	\$ -	1.26
			Sep-10	2010	Q3	\$ 18,758.34	\$ 837.23	0.89%	\$ 13.91	\$ 19,609.48	\$ -	1.26
			Oct-10	2010	Q4	\$ 19,595.57	\$ 837.14	1.20%	\$ 19.60	\$ 20,452.31	\$ -	1.26
			Nov-10	2010	Q4	\$ 20,432.71	\$ 836.23	1.20%	\$ 20.43	\$ 21,289.37	\$ -	1.26
			Dec-10	2010	Q4	\$ 21,268.94	\$ 907.00	1.20%	\$ 21.27	\$ 22,197.21	\$ 10,263.73	\$ 1.26
			Jan-11	2011	Q1	\$ 22,175.94	\$ 846.14	1.47%	\$ 27.17	\$ 23,049.25	\$ -	1.26
			Feb-11	2011	Q1	\$ 23,022.08	\$ 844.21	1.47%	\$ 28.20	\$ 23,894.49	\$ -	1.26
			Mar-11	2011	Q1	\$ 23,866.29	\$ 844.69	1.47%	\$ 29.24	\$ 24,740.22	\$ -	1.26
			Apr-11	2011	Q2	\$ 24,710.98	\$ 843.95	1.47%	\$ 30.27	\$ 25,585.20	\$ -	1.26
			May-11	2011	Q2	\$ 25,554.93	\$ 835.24	1.47%	\$ 31.30	\$ 26,421.47	\$ -	1.18
			Jun-11	2011	Q2	\$ 26,390.17	\$ 794.93	1.47%	\$ 32.33	\$ 27,217.43	\$ -	1.18
			Jul-11	2011	Q3	\$ 27,185.10	\$ 783.84	1.47%	\$ 33.30	\$ 28,002.24	\$ -	1.18
			Aug-11	2011	Q3	\$ 27,968.94	\$ 790.75	1.47%	\$ 34.26	\$ 28,793.95	\$ -	1.18
			Sep-11	2011	Q3	\$ 28,759.69	\$ 786.29	1.47%	\$ 35.23	\$ 29,581.21	\$ -	1.18
			Oct-11	2011	Q4	\$ 29,545.98	\$ 785.75	1.47%	\$ 36.19	\$ 30,367.92	\$ -	1.18
			Nov-11	2011	Q4	\$ 30,331.73	\$ 780.86	1.47%	\$ 37.16	\$ 31,149.75	\$ -	1.18
			Dec-11	2011	Q4	\$ 31,112.59	\$ 634.80	1.47%	\$ 38.11	\$ 31,785.50	\$ 9,964.21	\$ 1.18



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP				Opening Balance (Principal)	Funding Adder Revenues	Interest		Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
			Date	Year	Quarter			Rate	Interest			
			Jan-12	2012	Q1	\$ 31,747.39	\$ 770.19	1.47%	\$ 38.89	\$ 32,556.47		\$ 1.18
			Feb-12	2012	Q1	\$ 32,517.58	\$ 781.98	1.47%	\$ 39.83	\$ 33,339.39		\$ 1.18
			Mar-12	2012	Q1	\$ 33,299.56	\$ 781.31	1.47%	\$ 40.79	\$ 34,121.66		\$ 1.18
			Apr-12	2012	Q2	\$ 34,080.87	\$ 782.89	1.47%	\$ 41.75	\$ 34,905.51		\$ 1.18
			May-12	2012	Q2	\$ 34,863.76	\$ 36.96	1.47%	\$ 42.71	\$ 34,869.51		
			Jun-12	2012	Q2	\$ 34,826.80	\$ -	1.47%	\$ 42.66	\$ 34,869.46		
			Jul-12	2012	Q3	\$ 34,826.80	\$ -	1.47%	\$ 42.66	\$ 34,869.46		
			Aug-12	2012	Q3	\$ 34,826.80	\$ -	1.47%	\$ 42.66	\$ 34,869.46		
			Sep-12	2012	Q3	\$ 34,826.80	\$ -	1.47%	\$ 42.66	\$ 34,869.46		
			Oct-12	2012	Q4	\$ 34,826.80	\$ -	1.47%	\$ 42.66	\$ 34,869.46		
			Nov-12	2012	Q4	\$ 34,826.80	\$ -	1.47%	\$ 42.66	\$ 34,869.46		
			Dec-12	2012	Q4	\$ 34,826.80	\$ -	1.47%	\$ 42.66	\$ 34,869.46	\$ 3,582.00	
Total Funding Adder Revenues Collected						\$ 34,826.80			\$ 1,089.61	\$ 35,916.41	\$ 35,916.41	



Middlesex Power Distribution Corporation

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

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-			-	4.59%	-	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-			-	4.59%	-	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-			-	4.59%	-	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-			-	4.59%	-	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-			-	4.59%	-	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	-			-	5.14%	-	-
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	-			-	5.14%	-	-
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	-			-	5.14%	-	-
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	-			-	5.14%	-	-
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	-			-	4.08%	-	-
			May-08	2008	Q2	-			-	4.08%	-	-
			Jun-08	2008	Q2	-			-	4.08%	-	-
			Jul-08	2008	Q3	-			-	3.35%	-	-
			Aug-08	2008	Q3	-			-	3.35%	-	-
			Sep-08	2008	Q3	-			-	3.35%	-	-
			Oct-08	2008	Q4	-			-	3.35%	-	-
			Nov-08	2008	Q4	-			-	3.35%	-	-
			Dec-08	2008	Q4	-			-	3.35%	-	-
			Jan-09	2009	Q1	-			-	2.45%	-	-
			Feb-09	2009	Q1	-			-	2.45%	-	-
			Mar-09	2009	Q1	-			-	2.45%	-	-
			Apr-09	2009	Q2	-			-	1.00%	-	-
			May-09	2009	Q2	-			-	1.00%	-	-
			Jun-09	2009	Q2	-			-	1.00%	-	-
			Jul-09	2009	Q3	-			-	0.55%	-	-
			Aug-09	2009	Q3	-			-	0.55%	-	-
			Sep-09	2009	Q3	-			-	0.55%	-	-
			Oct-09	2009	Q4	-			-	0.55%	-	-
			Nov-09	2009	Q4	-			-	0.55%	-	-
			Dec-09	2009	Q4	-			-	0.55%	-	-
			Jan-10	2010	Q1	-			-	0.55%	-	-
			Feb-10	2010	Q1	-			-	0.55%	-	-
			Mar-10	2010	Q1	-			-	0.55%	-	-
			Apr-10	2010	Q2	-			-	0.55%	-	-
			May-10	2010	Q2	-			-	0.55%	-	-
			Jun-10	2010	Q2	-			-	0.55%	-	-
			Jul-10	2010	Q3	-			-	0.89%	-	-
			Aug-10	2010	Q3	-			-	0.89%	-	-
			Sep-10	2010	Q3	-			-	0.89%	-	-
			Oct-10	2010	Q4	-			-	1.20%	-	-
			Nov-10	2010	Q4	-			-	1.20%	-	-
			Dec-10	2010	Q4	-			-	1.20%	-	-
			Jan-11	2011	Q1	-			-	1.47%	-	-
			Feb-11	2011	Q1	-			-	1.47%	-	-
			Mar-11	2011	Q1	-			-	1.47%	-	-
			Apr-11	2011	Q2	-			-	1.47%	-	-
			May-11	2011	Q2	-			-	1.47%	-	-
			Jun-11	2011	Q2	-			-	1.47%	-	-
			Jul-11	2011	Q3	-			-	1.47%	-	-
			Aug-11	2011	Q3	-			-	1.47%	-	-
			Sep-11	2011	Q3	-			-	1.47%	-	-
			Oct-11	2011	Q4	-			-	1.47%	-	-
			Nov-11	2011	Q4	-			-	1.47%	-	-
			Dec-11	2011	Q4	-			-	1.47%	-	-
			Jan-12	2012	Q1	-			-	1.47%	-	-
			Feb-12	2012	Q1	-			-	1.47%	-	-
			Mar-12	2012	Q1	-			-	1.47%	-	-
			Apr-12	2012	Q2	-			-	1.47%	-	-
			May-12	2012	Q2	-			-	1.47%	-	-
			Jun-12	2012	Q2	-			-	1.47%	-	-
			Jul-12	2012	Q3	-			-	1.47%	-	-
			Aug-12	2012	Q3	-			-	1.47%	-	-
			Sep-12	2012	Q3	-			-	1.47%	-	-
			Oct-12	2012	Q4	-			-	1.47%	-	-
			Nov-12	2012	Q4	-			-	1.47%	-	-
			Dec-12	2012	Q4	-			-	1.47%	-	-
						\$ -	\$ -	\$ -	\$ -			



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

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

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense	Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
2006	\$ -	\$ -	\$ -	\$ -	4.37%	\$ -
2007	\$ -	\$ -	\$ -	\$ -	4.73%	\$ -
2008	\$ 7,344.75	\$ 4,281.67	\$ 11,626.41	\$ 5,813.21	3.98%	\$ 231.37
2009	\$ 1,722.77	\$ 9,974.52	\$ 23,323.70	\$ 17,475.06	1.14%	\$ 198.78
2010	\$ 6,832.63	\$ 16,196.57	\$ 46,352.91	\$ 34,838.31	0.80%	\$ 277.84
2011	\$ 5,909.07	\$ 21,328.16	\$ 73,590.13	\$ 59,971.52	1.47%	\$ 881.58
2012	\$ 1,523.45	\$ 20,446.18	\$ 95,559.76	\$ 84,574.95	1.47%	\$ 1,243.25
Cumulative Interest to 2011						\$ 1,589.56
Cumulative Interest to 2012						\$ 2,832.81



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

Check if applicable

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

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ 16,312.08	\$ 22,481.78	\$ 39,949.08	\$ 48,743.76	\$ 42,503.12	\$ 169,989.83
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ 231.37	\$ 198.78	\$ 277.84	\$ 881.58		\$ 1,589.56
<input type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)								\$ -
<input checked="" type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)	\$ -	\$ -	\$ 231.37	\$ 198.78	\$ 277.84	\$ 881.58		\$ 1,589.56
SMFA Revenues (from Sheet 8)	\$ -	\$ -	\$ 1,638.79	\$ 10,413.50	\$ 10,123.65	\$ 9,571.45	\$ 3,079.41	\$ 34,826.80
SMFA Interest (from Sheet 8)	\$ -	\$ -	\$ 2.32	\$ 51.86	\$ 140.08	\$ 392.76	\$ 502.59	\$ 1,089.61
Net Deferred Revenue Requirement	\$ -	\$ -	\$ 14,902.34	\$ 12,215.20	\$ 29,963.19	\$ 39,661.13	\$ 38,921.12	\$ 135,662.98
Number of Metered Customers (average for 2012 test year)							662	

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

Years for collection or refunding	3.5	
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 129,076.27	
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 35,916.41	
Net Deferred Revenue Requirement	\$ 93,159.86	
SMDR November 1, 2012 to April 30, 2016	\$ 3.35	Match
Check: Forecasted SMDR Revenues	\$ 93,143.40	

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

Incremental Revenue Requirement for 2012	\$ 42,503.12	
SMIRR	\$ 5.35	Match
Check: Forecasted SMIRR Revenues	\$ 42,500.40	

Entegrus Powerlines Inc.

SM Final Disposition – Draft Rate Order

Board File No.: EB-2012-0289

Date Filed: November 2, 2012

Attachment F
Smart Meter Model
SMP GS>50kW



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Middlesex Power Distribution Corporation

Middlesex Power Distribution Corporation - Dutton

Application Contact Information

Name: Andrya Eagen

Title: Senior Regulatory Specialist

Phone Number: 519-352-6300 Ext 243

Email Address: andryaeagen@ckenergy.com

We are applying for rates effective: November 1, 2012

Last COS Re-based Year 2006

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.



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

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

Smart Meter Capital Cost and Operational Expense Data	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter Installation Plan								
Actual/Planned number of Smart Meters installed during the Calendar Year								
Residential								0
General Service < 50 kW								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%	0.00%	0.00%	0.00%	
Actual/Planned number of GS > 50 kW meters installed				21	42	18		81
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	0	21	42	18	0	81
1 Capital Costs								
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type								
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter		0	12,354	24,708	10,589		\$ 47,651
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter		0	3,958	7,917	3,393		\$ 15,268
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
Total Advanced Metering Communications Devices (AMCD)				\$ 16,312	\$ 32,625	\$ 13,982		\$ 62,919
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
Asset Type								
1.2.1 Collectors								\$ -
1.2.2 Repeaters (may include radio licence, etc.)								\$ -
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)								\$ -
Total Advanced Metering Regional Collector (AMRC) (includes LAN)				\$ -	\$ -	\$ -		\$ -
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)								
Asset Type								
1.3.1 Computer Hardware								\$ -
1.3.2 Computer Software								\$ -
1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.)								\$ -
Total Advanced Metering Control Computer (AMCC)				\$ -	\$ -	\$ -		\$ -
1.4 WIDE AREA NETWORK (WAN)								
Asset Type								
1.4.1 Activation Fees	Applications Software		0	2,423	4,845	2,077		\$ 9,345
Total Wide Area Network (WAN)				\$ 2,423	\$ 4,845	\$ 2,077		\$ 9,345
1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY								
Asset Type								
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				\$ 18,735	\$ 37,470	\$ 16,059		\$ 72,264
1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY								
Asset Type								
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06	Computer Software							\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Applications Software							\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDNR, etc.								\$ -
Total Capital Costs Beyond Minimum Functionality				\$ -	\$ -	\$ -		\$ -
Total Smart Meter Capital Costs				\$ 18,735	\$ 37,470	\$ 16,059		\$ 72,264
2 OM&A Expenses								
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type								
2.1.1 Maintenance (may include meter re-verification costs, etc.)			115	110	88	136	0	\$ 450
2.1.2 Other (please specify)								\$ -
Total Incremental AMCD OM&A Costs			\$ 115	\$ 110	\$ 88	\$ 136	\$ -	\$ 450



Ontario Energy Board
Smart Meter Model

Middlesex Power Distribution Corporation

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

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

Smart Meter Capital Cost and Operational Expense Data

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

2.2.1 Maintenance

2.2.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

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

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

2.3.2 Other (please specify)

Total Incremental AMCC OM&A Costs

2.4 WIDE AREA NETWORK (WAN)

2.4.1 WAN Maintenance

2.4.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.5 OTHER AMI OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.5.1 Business Process Redesign

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

2.5.3 Program Management

2.5.4 Change Management (may include training, etc.)

2.5.5 Administration Costs

2.5.6 Other AMI Expenses

(please specify)

Total Other AMI OM&A Costs Related to Minimum Functionality

TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY

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

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

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

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

Total OM&A Costs Beyond Minimum Functionality

Total Smart Meter OM&A Costs

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
2.2.1 Maintenance								\$ -
2.2.2 Other (please specify)								\$ -
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2.3.1 Hardware Maintenance (may include server support, etc.)			96	13	13	9	8	\$ 139
2.3.2 Software Maintenance (may include maintenance support, etc.)			211	49	37	24	175	\$ 496
2.3.2 Other (please specify)								\$ -
Total Incremental AMCC OM&A Costs	\$ -	\$ -	\$ 308	\$ 61	\$ 50	\$ 33	\$ 183	\$ 634
2.4.1 WAN Maintenance								\$ -
2.4.2 Other (please specify)								\$ -
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
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			433	2	0	0	0	\$ 434
2.5.6 Other AMI Expenses			26	17	5	12	0	\$ 60
(please specify)								
Total Other AMI OM&A Costs Related to Minimum Functionality	\$ -	\$ -	\$ 458	\$ 19	\$ 5	\$ 12	\$ -	\$ 495
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY	\$ -	\$ -	\$ 881	\$ 190	\$ 144	\$ 180	\$ 183	\$ 1,579
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.			0	0	0	0	0	\$ -
Total OM&A Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter OM&A Costs	\$ -	\$ -	\$ 881	\$ 190	\$ 144	\$ 180	\$ 183	\$ 1,579

3 Aggregate Smart Meter Costs by Category

3.1

Capital

3.1.1 Smart Meter

3.1.2 Computer Hardware

3.1.3 Computer Software

3.1.4 Tools & Equipment

3.1.5 Other Equipment

3.1.6 Applications Software

3.1.7 Total Capital Costs

3.2 OM&A Costs

3.2.1 Total OM&A Costs

\$ -	\$ -	\$ -	\$ 16,312	\$ 32,625	\$ 13,982	\$ -	\$ 62,919
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ 2,423	\$ 4,845	\$ 2,077	\$ -	\$ 9,345
\$ -	\$ -	\$ -	\$ 18,735	\$ 37,470	\$ 16,059	\$ -	\$ 72,264
\$ -	\$ -	\$ 881	\$ 190	\$ 144	\$ 180	\$ 183	\$ 1,579



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure¹							
Deemed Short-term Debt Capitalization							
Deemed Long-term Debt Capitalization	50.0%	50.0%	53.3%	56.7%	60.0%	60.0%	60.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%
Preferred Shares	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate							
Long-term Debt Rate (actual/embedded/deemed) ²	7.25%	7.25%	7.25%	7.25%	7.25%	7.25%	7.25%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%
Return on Preferred Shares							
WACC	8.13%	8.13%	8.07%	8.01%	7.95%	7.95%	7.95%
Working Capital Allowance							
Working Capital Allowance Rate (% of the sum of Cost of Power + controllable expenses)	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates (expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	3	3	3	3	3	3	3
- rate (%)	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates							
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%

Assumptions

¹ Planned smart meter installations occur evenly throughout the year.

² Fiscal calendar year (January 1 to December 31) used.

³ Amortization is done on a straight line basis and has the "half-year" rule applied.



	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 16,312	\$ 48,937	\$ 62,919
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 16,312	\$ 32,625	\$ 13,962	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 16,312	\$ 48,937	\$ 62,919	\$ 62,919
Accumulated Depreciation							
Opening Balance		\$ -	\$ -	\$ -	\$ 544	\$ 2,719	\$ 6,447
Amortization expense during year	\$ -	\$ -	\$ -	\$ 544	\$ 2,175	\$ 3,729	\$ 4,195
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 544	\$ 2,719	\$ 6,447	\$ 10,642
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 15,769	\$ 46,218	\$ 56,472
Closing Balance	\$ -	\$ -	\$ -	\$ 15,769	\$ 46,218	\$ 56,472	\$ 52,277
Average Net Book Value	\$ -	\$ -	\$ -	\$ 7,884	\$ 30,994	\$ 51,345	\$ 54,375
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 2,423	\$ 7,268	\$ 9,345
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 2,423	\$ 4,845	\$ 2,077	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 2,423	\$ 7,268	\$ 9,345	\$ 9,345
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 404	\$ 2,019	\$ 4,788
Amortization expense during year	\$ -	\$ -	\$ -	\$ 404	\$ 1,615	\$ 2,769	\$ 3,115
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 404	\$ 2,019	\$ 4,788	\$ 7,903
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 2,019	\$ 5,249	\$ 4,557
Closing Balance	\$ -	\$ -	\$ -	\$ 2,019	\$ 5,249	\$ 4,557	\$ 1,442
Average Net Book Value	\$ -	\$ -	\$ -	\$ 1,009	\$ 3,634	\$ 4,903	\$ 3,000
Net Fixed Assets - Tools and Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Other Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 7,884	\$ 30,994	\$ 51,345	\$ 54,375
Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Computer Software	\$ -	\$ -	\$ -	\$ 1,009	\$ 3,634	\$ 4,903	\$ 3,000
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ -	\$ 8,894	\$ 34,628	\$ 56,248	\$ 57,374
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ 881	\$ 190	\$ 144	\$ 180	\$ 183
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ 132	\$ 29	\$ 22	\$ 27	\$ 27
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ 132	\$ 8,922	\$ 34,649	\$ 56,275	\$ 57,402
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ 70	\$ 5,059	\$ 20,789	\$ 33,765	\$ 34,441
Equity	\$ -	\$ -	\$ 62	\$ 3,863	\$ 13,860	\$ 22,510	\$ 22,961
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ 132	\$ 8,922	\$ 34,649	\$ 56,275	\$ 57,402
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ 5	\$ 367	\$ 1,507	\$ 2,448	\$ 2,497
Equity	\$ -	\$ -	\$ 6	\$ 348	\$ 1,247	\$ 2,026	\$ 2,066
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ 11	\$ 714	\$ 2,755	\$ 4,474	\$ 4,563
Operating Expenses	\$ -	\$ -	\$ 881	\$ 190	\$ 144	\$ 180	\$ 183
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 544	\$ 2,175	\$ 3,729	\$ 4,195
Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Computer Software	\$ -	\$ -	\$ -	\$ 404	\$ 1,615	\$ 2,769	\$ 3,115
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ -	\$ 948	\$ 3,790	\$ 6,497	\$ 7,309
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ 892	\$ 1,852	\$ 6,688	\$ 11,152	\$ 12,056
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ 881	\$ 190	\$ 144	\$ 180	\$ 183
Amortization Expense	\$ -	\$ -	\$ -	\$ 948	\$ 3,790	\$ 6,497	\$ 7,309
Interest Expense	\$ -	\$ -	\$ 5	\$ 367	\$ 1,507	\$ 2,448	\$ 2,497
Net Income for Taxes/PILs	\$ -	\$ -	\$ 6	\$ 348	\$ 1,247	\$ 2,026	\$ 2,066
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ 2.80	\$ 240.04	\$ 480.01	\$ 332.63	\$ 1,387.54
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ 895	\$ 1,612	\$ 6,208	\$ 11,484	\$ 13,443



For PILs Calculation

UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 15,659.88	\$ 45,726.86	\$ 55,491.47
Capital Additions	\$ -	\$ -	\$ -	\$ 16,312.38	\$ 32,624.76	\$ 13,982.04	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 16,312.38	\$ 48,284.64	\$ 59,708.90	\$ 55,491.47
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 8,156.19	\$ 16,312.38	\$ 6,991.02	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 8,156.19	\$ 31,972.26	\$ 52,717.88	\$ 55,491.47
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 652.50	\$ 2,557.78	\$ 4,217.43	\$ 4,439.32
Closing UCC	\$ -	\$ -	\$ -	\$ 15,659.88	\$ 45,726.86	\$ 55,491.47	\$ 51,052.15

UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
INCOME TAX							
Net Income	\$ -	\$ -	\$ 5.56	\$ 347.70	\$ 1,247.37	\$ 2,025.91	\$ 2,066.46
Amortization	\$ -	\$ -	\$ -	\$ 947.53	\$ 3,790.11	\$ 6,497.33	\$ 7,309.50
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 652.50	\$ 2,557.78	\$ 4,217.43	\$ 4,439.32
CCA - Computers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA - Applications Software	\$ -	\$ -	\$ -	\$ 1,211.34	\$ 3,634.03	\$ 3,460.98	\$ 1,038.29
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ 5.56	\$ 568.61	\$ 1,154.34	\$ 844.83	\$ 3,898.34
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ 1.86	\$ 187.64	\$ 357.84	\$ 238.66	\$ 1,023.31
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ -	\$ 15,768.63	\$ 46,218.41	\$ 56,471.90	\$ 52,277.29
Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Computer Software (Including Application Software)	\$ -	\$ -	\$ -	\$ 2,018.91	\$ 5,249.16	\$ 4,556.96	\$ 1,442.08
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ -	\$ 17,787.54	\$ 51,467.56	\$ 61,028.86	\$ 53,719.37
Less: Exemption	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ -	\$ 17,787.54	\$ 51,467.56	\$ 61,028.86	\$ 53,719.37
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ -	\$ 40.02	\$ 38.60	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ 1.86	\$ 187.64	\$ 357.84	\$ 238.66	\$ 1,023.31
Change in OCT	\$ -	\$ -	\$ -	\$ 40.02	\$ 38.60	\$ -	\$ -
PILs	\$ -	\$ -	\$ 1.86	\$ 147.62	\$ 319.24	\$ 238.66	\$ 1,023.31
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ 2.80	\$ 280.06	\$ 518.61	\$ 332.63	\$ 1,387.54
Change in OCT	\$ -	\$ -	\$ -	\$ 40.02	\$ 38.60	\$ -	\$ -
PILs	\$ -	\$ -	\$ 2.80	\$ 240.04	\$ 480.01	\$ 332.63	\$ 1,387.54



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ -		4.59%	\$ -	\$ -	\$ -	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ -	\$ -	5.14%	\$ -	\$ -		
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ -	\$ -	5.14%	\$ -	\$ -	\$ -	
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ -	\$ -	5.14%	\$ -	\$ -		
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ -	\$ -	5.14%	\$ -	\$ -		
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ -	\$ -	5.14%	\$ -	\$ -		
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	\$ -	\$ -	4.08%	\$ -	\$ -		
			May-08	2008	Q2	\$ -	\$ -	4.08%	\$ -	\$ -		
			Jun-08	2008	Q2	\$ -	\$ -	4.08%	\$ -	\$ -		
			Jul-08	2008	Q3	\$ -	\$ -	3.35%	\$ -	\$ -		
			Aug-08	2008	Q3	\$ -	\$ -	3.35%	\$ -	\$ -		
			Sep-08	2008	Q3	\$ -	\$ -	3.35%	\$ -	\$ -		
			Oct-08	2008	Q4	\$ -	\$ -	3.35%	\$ -	\$ -	0.00	
			Nov-08	2008	Q4	\$ -	\$ 122.21	3.35%	\$ -	\$ 122.21	\$ 231.92	\$ 1.26
			Dec-08	2008	Q4	\$ 122.21	\$ 109.37	3.35%	\$ 0.34	\$ 231.92	\$ 231.92	\$ 1.26
			Jan-09	2009	Q1	\$ 231.58	\$ 118.02	2.45%	\$ 0.47	\$ 350.07		\$ 1.26
			Feb-09	2009	Q1	\$ 349.60	\$ 117.68	2.45%	\$ 0.71	\$ 467.99		\$ 1.26
			Mar-09	2009	Q1	\$ 467.28	\$ 123.19	2.45%	\$ 0.95	\$ 591.42		\$ 1.26
			Apr-09	2009	Q2	\$ 590.47	\$ 122.22	1.00%	\$ 0.49	\$ 713.18		\$ 1.26
			May-09	2009	Q2	\$ 712.69	\$ 122.22	1.00%	\$ 0.59	\$ 835.50		\$ 1.26
			Jun-09	2009	Q2	\$ 834.91	\$ 122.31	1.00%	\$ 0.70	\$ 957.92		\$ 1.26
			Jul-09	2009	Q3	\$ 957.22	\$ 122.22	0.55%	\$ 0.44	\$ 1,079.88		\$ 1.26
			Aug-09	2009	Q3	\$ 1,079.44	\$ 122.22	0.55%	\$ 0.49	\$ 1,202.15		\$ 1.26
			Sep-09	2009	Q3	\$ 1,201.66	\$ 122.22	0.55%	\$ 0.55	\$ 1,324.43		\$ 1.26
			Oct-09	2009	Q4	\$ 1,323.88	\$ 122.22	0.55%	\$ 0.61	\$ 1,446.71		\$ 1.26
			Nov-09	2009	Q4	\$ 1,446.10	\$ 122.22	0.55%	\$ 0.66	\$ 1,568.98		\$ 1.26
			Dec-09	2009	Q4	\$ 1,568.32	\$ 178.56	0.55%	\$ 0.72	\$ 1,747.60	\$ 1,522.68	\$ 1.26
			Jan-10	2010	Q1	\$ 1,746.88	\$ 119.66	0.55%	\$ 0.80	\$ 1,867.34		\$ 1.26
			Feb-10	2010	Q1	\$ 1,866.54	\$ 124.90	0.55%	\$ 0.86	\$ 1,992.30		\$ 1.26
			Mar-10	2010	Q1	\$ 1,991.44	\$ 122.22	0.55%	\$ 0.91	\$ 2,114.57		\$ 1.26
			Apr-10	2010	Q2	\$ 2,113.66	\$ 120.96	0.55%	\$ 0.97	\$ 2,235.59		\$ 1.26
			May-10	2010	Q2	\$ 2,234.62	\$ 121.00	0.55%	\$ 1.02	\$ 2,356.64		\$ 1.26
			Jun-10	2010	Q2	\$ 2,355.62	\$ 123.44	0.55%	\$ 1.08	\$ 2,480.14		\$ 1.26
			Jul-10	2010	Q3	\$ 2,479.06	\$ 123.48	0.89%	\$ 1.84	\$ 2,604.38		\$ 1.26
			Aug-10	2010	Q3	\$ 2,602.54	\$ 122.22	0.89%	\$ 1.93	\$ 2,726.69		\$ 1.26
			Sep-10	2010	Q3	\$ 2,724.76	\$ 120.62	0.89%	\$ 2.02	\$ 2,847.40		\$ 1.26
			Oct-10	2010	Q4	\$ 2,845.38	\$ 125.46	1.20%	\$ 2.85	\$ 2,973.69		\$ 1.26
			Nov-10	2010	Q4	\$ 2,970.84	\$ 119.53	1.20%	\$ 2.97	\$ 3,093.34		\$ 1.26
			Dec-10	2010	Q4	\$ 3,090.37	\$ 145.09	1.20%	\$ 3.09	\$ 3,238.55	\$ 1,508.92	\$ 1.26
			Jan-11	2011	Q1	\$ 3,235.46	\$ 123.48	1.47%	\$ 3.96	\$ 3,362.90		\$ 1.26
			Feb-11	2011	Q1	\$ 3,358.94	\$ 123.48	1.47%	\$ 4.11	\$ 3,486.53		\$ 1.26
			Mar-11	2011	Q1	\$ 3,482.42	\$ 123.48	1.47%	\$ 4.27	\$ 3,610.17		\$ 1.26
			Apr-11	2011	Q2	\$ 3,605.90	\$ 123.48	1.47%	\$ 4.42	\$ 3,733.80		\$ 1.26
			May-11	2011	Q2	\$ 3,729.38	\$ 121.80	1.47%	\$ 4.57	\$ 3,855.75		\$ 1.18
			Jun-11	2011	Q2	\$ 3,851.18	\$ 113.54	1.47%	\$ 4.72	\$ 3,969.44		\$ 1.18
			Jul-11	2011	Q3	\$ 3,964.72	\$ 118.23	1.47%	\$ 4.86	\$ 4,087.81		\$ 1.18
			Aug-11	2011	Q3	\$ 4,082.95	\$ 115.64	1.47%	\$ 5.00	\$ 4,203.59		\$ 1.18
			Sep-11	2011	Q3	\$ 4,198.59	\$ 115.64	1.47%	\$ 5.14	\$ 4,319.37		\$ 1.18
			Oct-11	2011	Q4	\$ 4,314.23	\$ 115.64	1.47%	\$ 5.28	\$ 4,435.15		\$ 1.18
			Nov-11	2011	Q4	\$ 4,429.87	\$ 115.50	1.47%	\$ 5.43	\$ 4,550.80		\$ 1.18
			Dec-11	2011	Q4	\$ 4,545.37	\$ 94.40	1.47%	\$ 5.57	\$ 4,645.34	\$ 1,461.64	\$ 1.18



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
			Jan-12	2012	Q1	\$ 4,639.77	\$ 114.66	1.47%	\$ 5.68	\$ 4,760.11		\$ 1.18
			Feb-12	2012	Q1	\$ 4,754.43	\$ 114.46	1.47%	\$ 5.82	\$ 4,874.71		\$ 1.18
			Mar-12	2012	Q1	\$ 4,868.89	\$ 115.64	1.47%	\$ 5.96	\$ 4,990.49		\$ 1.18
			Apr-12	2012	Q2	\$ 4,984.53	\$ 115.64	1.47%	\$ 6.11	\$ 5,106.28		\$ 1.18
			May-12	2012	Q2	\$ 5,100.17	\$ 119.46	1.47%	\$ 6.25	\$ 5,125.88		
			Jun-12	2012	Q2	\$ 5,119.63	\$ -	1.47%	\$ 6.27	\$ 5,125.90		
			Jul-12	2012	Q3	\$ 5,119.63	\$ -	1.47%	\$ 6.27	\$ 5,125.90		
			Aug-12	2012	Q3	\$ 5,119.63	\$ -	1.47%	\$ 6.27	\$ 5,125.90		
			Sep-12	2012	Q3	\$ 5,119.63	\$ -	1.47%	\$ 6.27	\$ 5,125.90		
			Oct-12	2012	Q4	\$ 5,119.63	\$ -	1.47%	\$ 6.27	\$ 5,125.90		
			Nov-12	2012	Q4	\$ 5,119.63	\$ -	1.47%	\$ 6.27	\$ 5,125.90		
			Dec-12	2012	Q4	\$ 5,119.63	\$ -	1.47%	\$ 6.27	\$ 5,125.90	\$ 553.57	
Total Funding Adder Revenues Collected						\$	5,119.63		\$ 159.10	\$ 5,278.73	\$ 5,278.73	



Middlesex Power Distribution Corporation

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

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-			-	4.59%	-	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-			-	4.59%	-	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-			-	4.59%	-	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-			-	4.59%	-	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-			-	4.59%	-	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	-			-	5.14%	-	-
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	-			-	5.14%	-	-
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	-			-	5.14%	-	-
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	-			-	5.14%	-	-
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	-			-	4.08%	-	-
			May-08	2008	Q2	-			-	4.08%	-	-
			Jun-08	2008	Q2	-			-	4.08%	-	-
			Jul-08	2008	Q3	-			-	3.35%	-	-
			Aug-08	2008	Q3	-			-	3.35%	-	-
			Sep-08	2008	Q3	-			-	3.35%	-	-
			Oct-08	2008	Q4	-			-	3.35%	-	-
			Nov-08	2008	Q4	-			-	3.35%	-	-
			Dec-08	2008	Q4	-			-	3.35%	-	-
			Jan-09	2009	Q1	-			-	2.45%	-	-
			Feb-09	2009	Q1	-			-	2.45%	-	-
			Mar-09	2009	Q1	-			-	2.45%	-	-
			Apr-09	2009	Q2	-			-	1.00%	-	-
			May-09	2009	Q2	-			-	1.00%	-	-
			Jun-09	2009	Q2	-			-	1.00%	-	-
			Jul-09	2009	Q3	-			-	0.55%	-	-
			Aug-09	2009	Q3	-			-	0.55%	-	-
			Sep-09	2009	Q3	-			-	0.55%	-	-
			Oct-09	2009	Q4	-			-	0.55%	-	-
			Nov-09	2009	Q4	-			-	0.55%	-	-
			Dec-09	2009	Q4	-			-	0.55%	-	-
			Jan-10	2010	Q1	-			-	0.55%	-	-
			Feb-10	2010	Q1	-			-	0.55%	-	-
			Mar-10	2010	Q1	-			-	0.55%	-	-
			Apr-10	2010	Q2	-			-	0.55%	-	-
			May-10	2010	Q2	-			-	0.55%	-	-
			Jun-10	2010	Q2	-			-	0.55%	-	-
			Jul-10	2010	Q3	-			-	0.89%	-	-
			Aug-10	2010	Q3	-			-	0.89%	-	-
			Sep-10	2010	Q3	-			-	0.89%	-	-
			Oct-10	2010	Q4	-			-	1.20%	-	-
			Nov-10	2010	Q4	-			-	1.20%	-	-
			Dec-10	2010	Q4	-			-	1.20%	-	-
			Jan-11	2011	Q1	-			-	1.47%	-	-
			Feb-11	2011	Q1	-			-	1.47%	-	-
			Mar-11	2011	Q1	-			-	1.47%	-	-
			Apr-11	2011	Q2	-			-	1.47%	-	-
			May-11	2011	Q2	-			-	1.47%	-	-
			Jun-11	2011	Q2	-			-	1.47%	-	-
			Jul-11	2011	Q3	-			-	1.47%	-	-
			Aug-11	2011	Q3	-			-	1.47%	-	-
			Sep-11	2011	Q3	-			-	1.47%	-	-
			Oct-11	2011	Q4	-			-	1.47%	-	-
			Nov-11	2011	Q4	-			-	1.47%	-	-
			Dec-11	2011	Q4	-			-	1.47%	-	-
			Jan-12	2012	Q1	-			-	1.47%	-	-
			Feb-12	2012	Q1	-			-	1.47%	-	-
			Mar-12	2012	Q1	-			-	1.47%	-	-
			Apr-12	2012	Q2	-			-	1.47%	-	-
			May-12	2012	Q2	-			-	1.47%	-	-
			Jun-12	2012	Q2	-			-	1.47%	-	-
			Jul-12	2012	Q3	-			-	1.47%	-	-
			Aug-12	2012	Q3	-			-	1.47%	-	-
			Sep-12	2012	Q3	-			-	1.47%	-	-
			Oct-12	2012	Q4	-			-	1.47%	-	-
			Nov-12	2012	Q4	-			-	1.47%	-	-
			Dec-12	2012	Q4	-			-	1.47%	-	-
						\$	-	\$	-	\$	-	-



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation

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

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense	Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
2006	\$ -	\$ -	\$ -	\$ -	4.37%	\$ -
2007	\$ -	\$ -	\$ -	\$ -	4.73%	\$ -
2008	\$ 881.37	\$ -	\$ 881.37	\$ 440.68	3.98%	\$ 17.54
2009	\$ 190.39	\$ 947.53	\$ 2,019.29	\$ 1,450.33	1.14%	\$ 16.50
2010	\$ 143.62	\$ 3,790.11	\$ 5,953.02	\$ 3,986.16	0.80%	\$ 31.79
2011	\$ 180.37	\$ 6,497.33	\$ 12,630.72	\$ 9,291.87	1.47%	\$ 136.59
2012	\$ 182.81	\$ 7,309.50	\$ 20,123.03	\$ 16,376.88	1.47%	\$ 240.74
Cumulative Interest to 2011						\$ 202.42
Cumulative Interest to 2012						\$ 443.16



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

Check if applicable

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

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ 894.83	\$ 1,612.36	\$ 6,208.32	\$ 11,484.21	\$ 13,443.28	\$ 33,643.01
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ 17.54	\$ 16.50	\$ 31.79	\$ 136.59		\$ 202.42
<input type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)								\$ -
<input checked="" type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)	\$ -	\$ -	\$ 17.54	\$ 16.50	\$ 31.79	\$ 136.59		\$ 202.42
SMFA Revenues (from Sheet 8)	\$ -	\$ -	\$ 231.58	\$ 1,515.30	\$ 1,488.58	\$ 1,404.31	\$ 479.86	\$ 5,119.63
SMFA Interest (from Sheet 8)	\$ -	\$ -	\$ 0.34	\$ 7.38	\$ 20.34	\$ 57.33	\$ 73.71	\$ 159.10
Net Deferred Revenue Requirement	\$ -	\$ -	\$ 680.45	\$ 106.18	\$ 4,731.19	\$ 10,159.16	\$ 12,889.71	\$ 28,566.69
Number of Metered Customers (average for 2012 test year)							89	

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

Years for collection or refunding	1
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 20,402.15
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 5,278.73
Net Deferred Revenue Requirement	\$ 15,123.42
SMDR November 1, 2012 to October 31, 2013	\$ 14.16
Check: Forecasted SMDR Revenues	\$ 15,122.88

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

Incremental Revenue Requirement for 2012	\$ 13,443.28
SMIRR	\$ 12.59
Check: Forecasted SMIRR Revenues	\$ 13,446.12

Entegrus Powerlines Inc.

SM Final Disposition – Draft Rate Order

Board File No.: EB-2012-0289

Date Filed: November 2, 2012

Attachment G
Smart Meter Model
Dutton Residential



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Middlesex Power Distribution Corporation

Middlesex Power Distribution Corporation - Dutton

Application Contact Information

Name: Andrya Eagen

Title: Senior Regulatory Specialist

Phone Number: 519-352-6300 Ext 243

Email Address: andryaeagen@ckenergy.com

We are applying for rates effective: November 1, 2012

Last COS Re-based Year 2006

Legend

DROP-DOWN MENU

INPUT FIELD

CALCULATION FIELD

Copyright

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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.



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

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

Smart Meter Capital Cost and Operational Expense Data	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter Installation Plan								
Actual/Planned number of Smart Meters installed during the Calendar Year								
Residential				512	4			516
General Service < 50 kW								0
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	0	512	4	0	0	516
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	0.00%	99.22%	100.00%	0.00%	100.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed								0
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	0	512	4	0	0	516
1 Capital Costs								
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter			60,466	472	0		\$ 60,939
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter			17,783	139	0		\$ 17,922
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
Total Advanced Metering Communications Devices (AMCD)				\$ 78,249	\$ 611	\$ -	\$ -	\$ 78,860
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
1.2.1 Collectors								\$ -
1.2.2 Repeaters (may include radio licences, etc.)	Computer Hardware			8,571	67	0		\$ 8,638
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)								\$ -
Total Advanced Metering Regional Collector (AMRC) (includes LAN)				\$ 8,571	\$ 67	\$ -	\$ -	\$ 8,638
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)								
1.3.1 Computer Hardware								\$ -
1.3.2 Computer Software				0	0	0		\$ -
1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.)								\$ -
Total Advanced Metering Control Computer (AMCC)				\$ -	\$ -	\$ -	\$ -	\$ -
1.4 WIDE AREA NETWORK (WAN)								
1.4.1 Activation Fees	Applications Software			916	7	0		\$ 923
Total Wide Area Network (WAN)				\$ 916	\$ 7	\$ -	\$ -	\$ 923
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				\$ 87,736	\$ 685	\$ -	\$ -	\$ 88,421
1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY (Please provide a descriptive title and identify nature of beyond minimum functionality costs)								
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06	Computer Software							\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Applications Software							\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDNR, etc.								\$ -
Total Capital Costs Beyond Minimum Functionality				\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter Capital Costs				\$ 87,736	\$ 685	\$ -	\$ -	\$ 88,421
2 OM&A Expenses								
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
2.1.1 Maintenance (may include meter re-verification costs, etc.)				701	563	866	0	\$ 2,130
2.1.2 Other (please specify)								\$ -
Total Incremental AMCD OM&A Costs				\$ 701	\$ 563	\$ 866	\$ -	\$ 2,130



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

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

Smart Meter Capital Cost and Operational Expense Data

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

2.2.1 Maintenance

2.2.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

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

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

2.3.2 Other (please specify)

Total Incremental AMCC OM&A Costs

2.4 WIDE AREA NETWORK (WAN)

2.4.1 WAN Maintenance

2.4.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.5 OTHER AMI OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.5.1 Business Process Redesign

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

2.5.3 Program Management

2.5.4 Change Management (may include training, etc.)

2.5.5 Administration Costs

2.5.6 Other AM Expenses

(please specify)

Total Other AMI OM&A Costs Related to Minimum Functionality

TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY

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

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

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

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

Total OM&A Costs Beyond Minimum Functionality

Total Smart Meter OM&A Costs

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				80	84	56	49	\$ 269
				311	233	151	1,115	\$ 1,811
								\$ -
	\$ -	\$ -	\$ -	\$ 391	\$ 317	\$ 208	\$ 1,165	\$ 2,080
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
								\$ -
								\$ -
								\$ -
				11	0	0	0	\$ 11
				110	35	75	0	\$ 220
	\$ -	\$ -	\$ -	\$ 121	\$ 35	\$ 75	\$ -	\$ 231
	\$ -	\$ -	\$ -	\$ 1,213	\$ 915	\$ 1,149	\$ 1,165	\$ 4,441
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual		
								\$ -
								\$ -
				104	4,308	3,368	0	\$ 7,780
	\$ -	\$ -	\$ -	\$ 104	\$ 4,308	\$ 3,368	\$ -	\$ 7,780
	\$ -	\$ -	\$ -	\$ 1,317	\$ 5,223	\$ 4,517	\$ 1,165	\$ 12,222

3 Aggregate Smart Meter Costs by Category

3.1

Capital

3.1.1 Smart Meter

3.1.2 Computer Hardware

3.1.3 Computer Software

3.1.4 Tools & Equipment

3.1.5 Other Equipment

3.1.6 Applications Software

3.1.7 Total Capital Costs

3.2 OM&A Costs

3.2.1 Total OM&A Costs

\$ -	\$ -	\$ -	\$ 78,249	\$ 611	\$ -	\$ -	\$ -	\$ 78,860
\$ -	\$ -	\$ -	\$ 8,571	\$ 67	\$ -	\$ -	\$ -	\$ 8,638
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ 916	\$ 7	\$ -	\$ -	\$ -	\$ 923
\$ -	\$ -	\$ -	\$ 87,736	\$ 685	\$ -	\$ -	\$ -	\$ 88,421
\$ -	\$ -	\$ -	\$ 1,317	\$ 5,223	\$ 4,517	\$ 1,165	\$ -	\$ 12,222



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Dutton

	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure¹							
Deemed Short-term Debt Capitalization							
Deemed Long-term Debt Capitalization	57.0%	57.0%	60.0%	60.0%	60.0%	60.0%	60.0%
Deemed Equity Capitalization	43.0%	43.0%	40.0%	40.0%	40.0%	40.0%	40.0%
Preferred Shares	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate							
Long-term Debt Rate (actual/embedded/deemed) ²	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%
Return on Preferred Shares							
WACC	7.43%	7.43%	7.35%	7.35%	7.35%	7.35%	7.35%
Working Capital Allowance							
Working Capital Allowance Rate (% of the sum of Cost of Power + controllable expenses)	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates (expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	3	3	3	3	3	3	3
- rate (%)	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates							
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%

Assumptions

¹ Planned smart meter installations occur evenly throughout the year.

² Fiscal calendar year (January 1 to December 31) used.

³ Amortization is done on a straight line basis and has the "half-year" rule applied.



	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 78,249	\$ 78,860	\$ 78,860
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 78,249	\$ 611	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 78,249	\$ 78,860	\$ 78,860	\$ 78,860
Accumulated Depreciation							
Opening Balance		\$ -	\$ -	\$ -	\$ 2,608	\$ 7,845	\$ 13,103
Amortization expense during year	\$ -	\$ -	\$ -	\$ 2,608	\$ 5,237	\$ 5,257	\$ 5,257
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 2,608	\$ 7,845	\$ 13,103	\$ 18,360
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 75,641	\$ 71,015	\$ 65,758
Closing Balance	\$ -	\$ -	\$ -	\$ 75,641	\$ 71,015	\$ 65,758	\$ 60,500
Average Net Book Value	\$ -	\$ -	\$ -	\$ 37,820	\$ 73,328	\$ 68,387	\$ 63,129
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 8,571	\$ 8,638	\$ 8,638
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 8,571	\$ 67	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 8,571	\$ 8,638	\$ 8,638	\$ 8,638
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 857	\$ 2,578	\$ 4,305
Amortization expense during year	\$ -	\$ -	\$ -	\$ 857	\$ 1,721	\$ 1,728	\$ 1,728
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 857	\$ 2,578	\$ 4,305	\$ 6,033
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 7,714	\$ 6,060	\$ 4,332
Closing Balance	\$ -	\$ -	\$ -	\$ 7,714	\$ 6,060	\$ 4,332	\$ 2,605
Average Net Book Value	\$ -	\$ -	\$ -	\$ 3,857	\$ 6,867	\$ 5,196	\$ 3,468
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 916	\$ 923	\$ 923
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 916	\$ 7	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 916	\$ 923	\$ 923	\$ 923
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 153	\$ 459	\$ 767
Amortization expense during year	\$ -	\$ -	\$ -	\$ 153	\$ 306	\$ 308	\$ 156
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 153	\$ 459	\$ 767	\$ 923
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 763	\$ 464	\$ 156
Closing Balance	\$ -	\$ -	\$ -	\$ 763	\$ 464	\$ 156	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ 382	\$ 614	\$ 310	\$ 78
Net Fixed Assets - Tools and Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Other Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Ontario Energy Board
Smart Meter Model

Middlesex Power Distribution Corporation - Dutton

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 37,820	\$ 73,328	\$ 68,387	\$ 63,129
Computer Hardware	\$ -	\$ -	\$ -	\$ 3,857	\$ 6,887	\$ 5,196	\$ 3,468
Computer Software	\$ -	\$ -	\$ -	\$ 382	\$ 614	\$ 310	\$ 78
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ -	\$ 42,059	\$ 80,828	\$ 73,893	\$ 66,676
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ -	\$ 1,317	\$ 5,223	\$ 4,517	\$ 1,165
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ -	\$ 198	\$ 783	\$ 678	\$ 175
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ -	\$ 42,256	\$ 81,612	\$ 74,570	\$ 66,850
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 25,354	\$ 48,967	\$ 44,742	\$ 40,110
Equity	\$ -	\$ -	\$ -	\$ 16,903	\$ 32,645	\$ 29,828	\$ 26,740
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ -	\$ 42,256	\$ 81,612	\$ 74,570	\$ 66,850
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 1,585	\$ 3,060	\$ 2,796	\$ 2,507
Equity	\$ -	\$ -	\$ -	\$ 1,521	\$ 2,938	\$ 2,685	\$ 2,407
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ -	\$ 3,106	\$ 5,998	\$ 5,481	\$ 4,914
Operating Expenses	\$ -	\$ -	\$ -	\$ 1,317	\$ 5,223	\$ 4,517	\$ 1,165
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 2,608	\$ 5,237	\$ 5,257	\$ 5,257
Computer Hardware	\$ -	\$ -	\$ -	\$ 857	\$ 1,721	\$ 1,728	\$ 1,728
Computer Software	\$ -	\$ -	\$ -	\$ 153	\$ 306	\$ 308	\$ 156
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ -	\$ 3,618	\$ 7,264	\$ 7,293	\$ 7,141
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ -	\$ 8,041	\$ 18,486	\$ 17,291	\$ 13,219
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ -	\$ 1,317	\$ 5,223	\$ 4,517	\$ 1,165
Amortization Expense	\$ -	\$ -	\$ -	\$ 3,618	\$ 7,264	\$ 7,293	\$ 7,141
Interest Expense	\$ -	\$ -	\$ -	\$ 1,585	\$ 3,060	\$ 2,796	\$ 2,507
Net Income for Taxes/PILs	\$ -	\$ -	\$ -	\$ 1,521	\$ 2,938	\$ 2,685	\$ 2,407
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ -	\$ 207.53	\$ 179.84	\$ 1,115.51	\$ 1,321.93
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ -	\$ 7,833	\$ 18,666	\$ 18,406	\$ 14,541



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Dutton

For PILs Calculation

UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 75,119.20	\$ 69,696.53	\$ 64,120.81
Capital Additions	\$ -	\$ -	\$ -	\$ 78,249.17	\$ 611.32	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 78,249.17	\$ 75,730.52	\$ 69,696.53	\$ 64,120.81
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 39,124.58	\$ 305.66	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 39,124.58	\$ 75,424.86	\$ 69,696.53	\$ 64,120.81
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 3,129.97	\$ 6,033.99	\$ 5,575.72	\$ 5,129.66
Closing UCC	\$ -	\$ -	\$ -	\$ 75,119.20	\$ 69,696.53	\$ 64,120.81	\$ 58,991.15

UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 6,213.78	\$ 2,844.75	\$ 1,280.14
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 8,570.74	\$ 66.96	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 8,570.74	\$ 6,280.74	\$ 2,844.75	\$ 1,280.14
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 4,285.37	\$ 33.48	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 4,285.37	\$ 6,247.26	\$ 2,844.75	\$ 1,280.14
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ 2,356.95	\$ 3,435.99	\$ 1,564.61	\$ 704.08
Closing UCC	\$ -	\$ -	\$ -	\$ 6,213.78	\$ 2,844.75	\$ 1,280.14	\$ 576.06

UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
INCOME TAX							
Net Income	\$ -	\$ -	\$ -	\$ 1,521.23	\$ 2,938.02	\$ 2,684.53	\$ 2,406.62
Amortization	\$ -	\$ -	\$ -	\$ 3,618.03	\$ 7,264.32	\$ 7,292.59	\$ 7,141.13
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 3,129.97	\$ 6,033.99	\$ 5,575.72	\$ 5,129.66
CCA - Computers	\$ -	\$ -	\$ -	\$ 2,356.95	\$ 3,435.99	\$ 1,564.61	\$ 704.08
CCA - Applications Software	\$ -	\$ -	\$ -	\$ 457.95	\$ 461.52	\$ 3.58	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ -	\$ 805.61	\$ 270.84	\$ 2,833.20	\$ 3,714.01
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ -	\$ 265.85	\$ 83.96	\$ 800.38	\$ 974.93
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ -	\$ 75,640.86	\$ 71,015.20	\$ 65,757.83	\$ 60,500.46
Computer Hardware	\$ -	\$ -	\$ -	\$ 7,713.66	\$ 6,059.78	\$ 4,332.24	\$ 2,604.70
Computer Software (Including Application Software)	\$ -	\$ -	\$ -	\$ 763.24	\$ 463.91	\$ 156.23	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ -	\$ 84,117.77	\$ 77,538.88	\$ 70,246.30	\$ 63,105.16
Less: Exemption	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ -	\$ 84,117.77	\$ 77,538.88	\$ 70,246.30	\$ 63,105.16
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ -	\$ 189.26	\$ 58.15	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 265.85	\$ 83.96	\$ 800.38	\$ 974.93
Change in OCT	\$ -	\$ -	\$ -	\$ 189.26	\$ 58.15	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 76.59	\$ 142.11	\$ 800.38	\$ 974.93
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 396.79	\$ 121.68	\$ 1,115.51	\$ 1,321.93
Change in OCT	\$ -	\$ -	\$ -	\$ 189.26	\$ 58.15	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 207.53	\$ 179.84	\$ 1,115.51	\$ 1,321.93



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Dutton

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ -		4.59%	\$ -	\$ -	\$ -	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ -		5.14%	\$ -	\$ -	\$ -	
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			May-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			Jun-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			Jul-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Aug-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Sep-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Oct-08	2008	Q4	\$ -		3.35%	\$ -	\$ -		
			Nov-08	2008	Q4	\$ -		3.35%	\$ -	\$ -		
			Dec-08	2008	Q4	\$ -		3.35%	\$ -	\$ -	\$ -	
			Jan-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Feb-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Mar-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Apr-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			May-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			Jun-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			Jul-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Aug-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Sep-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Oct-09	2009	Q4	\$ -		0.55%	\$ -	\$ -		
			Nov-09	2009	Q4	\$ -		0.55%	\$ -	\$ -		
			Dec-09	2009	Q4	\$ -		0.55%	\$ -	\$ -	\$ -	
			Jan-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Feb-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Mar-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Apr-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		
			May-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		
			Jun-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		
			Jul-10	2010	Q3	\$ -		0.89%	\$ -	\$ -		
			Aug-10	2010	Q3	\$ -		0.89%	\$ -	\$ -		
			Sep-10	2010	Q3	\$ -		0.89%	\$ -	\$ -		
			Oct-10	2010	Q4	\$ -		1.20%	\$ -	\$ -		
			Nov-10	2010	Q4	\$ -	\$ 0.23	1.20%	\$ -	\$ 0.23		\$ 1.00
			Dec-10	2010	Q4	\$ 0.23	\$ 1,294.05	1.20%	\$ -	\$ 1,294.28	\$ 1,294.28	\$ 1.00
			Jan-11	2011	Q1	\$ 1,294.28	\$ 516.20	1.47%	\$ 1.59	\$ 1,812.07		\$ 1.00
			Feb-11	2011	Q1	\$ 1,810.48	\$ 515.59	1.47%	\$ 2.22	\$ 2,328.29		\$ 1.00
			Mar-11	2011	Q1	\$ 2,326.07	\$ 519.12	1.47%	\$ 2.85	\$ 2,848.04		\$ 1.00
			Apr-11	2011	Q2	\$ 2,845.19	\$ 516.88	1.47%	\$ 3.49	\$ 3,365.56		\$ 1.00
			May-11	2011	Q2	\$ 3,362.07	\$ 517.90	1.47%	\$ 4.12	\$ 3,884.09		\$ 2.50
			Jun-11	2011	Q2	\$ 3,879.97	\$ 965.30	1.47%	\$ 4.75	\$ 4,850.02		\$ 2.50
			Jul-11	2011	Q3	\$ 4,845.27	\$ 1,293.49	1.47%	\$ 5.94	\$ 6,144.70		\$ 2.50
			Aug-11	2011	Q3	\$ 6,138.76	\$ 1,293.51	1.47%	\$ 7.52	\$ 7,439.79		\$ 2.50
			Sep-11	2011	Q3	\$ 7,432.27	\$ 1,297.16	1.47%	\$ 9.10	\$ 8,738.53		\$ 2.50
			Oct-11	2011	Q4	\$ 8,729.43	\$ 1,305.51	1.47%	\$ 10.69	\$ 10,045.63		\$ 2.50
			Nov-11	2011	Q4	\$ 10,034.94	\$ 1,301.81	1.47%	\$ 12.29	\$ 11,349.04		\$ 2.50
			Dec-11	2011	Q4	\$ 11,336.75	\$ 2,269.55	1.47%	\$ 13.89	\$ 13,620.19	\$ 12,390.47	\$ 2.50



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP				Opening Balance (Principal)	Funding Adder Revenues	Interest		Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
			Date	Year	Quarter			Rate	Interest			
			Jan-12	2012	Q1	\$ 13,606.30	\$ 1,309.02	1.47%	\$ 16.67	\$ 14,931.99		\$ 2.50
			Feb-12	2012	Q1	\$ 14,915.32	\$ 1,310.08	1.47%	\$ 18.27	\$ 16,243.67		\$ 2.50
			Mar-12	2012	Q1	\$ 16,225.40	\$ 1,308.26	1.47%	\$ 19.88	\$ 17,553.54		\$ 2.50
			Apr-12	2012	Q2	\$ 17,533.66	\$ 1,313.00	1.47%	\$ 21.48	\$ 18,868.14		
			May-12	2012	Q2	\$ 18,846.66	\$ 108.01	1.47%	\$ 23.09	\$ 18,761.74		
			Jun-12	2012	Q2	\$ 18,738.65		1.47%	\$ 22.95	\$ 18,761.60		
			Jul-12	2012	Q3	\$ 18,738.65		1.47%	\$ 22.95	\$ 18,761.60		
			Aug-12	2012	Q3	\$ 18,738.65		1.47%	\$ 22.95	\$ 18,761.60		
			Sep-12	2012	Q3	\$ 18,738.65		1.47%	\$ 22.95	\$ 18,761.60		
			Oct-12	2012	Q4	\$ 18,738.65		1.47%	\$ 22.95	\$ 18,761.60		
			Nov-12	2012	Q4	\$ 18,738.65		1.47%	\$ 22.95	\$ 18,761.60		
			Dec-12	2012	Q4	\$ 18,738.65		1.47%	\$ 22.95	\$ 18,761.60	\$ 5,392.39	
Total Funding Adder Revenues Collected						\$ 18,738.65			\$ 338.49	\$ 19,077.14	\$ 19,077.14	



Middlesex Power Distribution Corporation - Dutton

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

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-			-	4.59%	-	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-			-	4.59%	-	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-			-	4.59%	-	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-			-	4.59%	-	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-			-	4.59%	-	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	-			-	5.14%	-	-
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	-			-	5.14%	-	-
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	-			-	5.14%	-	-
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	-			-	5.14%	-	-
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	-			-	4.08%	-	-
			May-08	2008	Q2	-			-	4.08%	-	-
			Jun-08	2008	Q2	-			-	4.08%	-	-
			Jul-08	2008	Q3	-			-	3.35%	-	-
			Aug-08	2008	Q3	-			-	3.35%	-	-
			Sep-08	2008	Q3	-			-	3.35%	-	-
			Oct-08	2008	Q4	-			-	3.35%	-	-
			Nov-08	2008	Q4	-			-	3.35%	-	-
			Dec-08	2008	Q4	-			-	3.35%	-	-
			Jan-09	2009	Q1	-			-	2.45%	-	-
			Feb-09	2009	Q1	-			-	2.45%	-	-
			Mar-09	2009	Q1	-			-	2.45%	-	-
			Apr-09	2009	Q2	-			-	1.00%	-	-
			May-09	2009	Q2	-			-	1.00%	-	-
			Jun-09	2009	Q2	-			-	1.00%	-	-
			Jul-09	2009	Q3	-			-	0.55%	-	-
			Aug-09	2009	Q3	-			-	0.55%	-	-
			Sep-09	2009	Q3	-			-	0.55%	-	-
			Oct-09	2009	Q4	-			-	0.55%	-	-
			Nov-09	2009	Q4	-			-	0.55%	-	-
			Dec-09	2009	Q4	-			-	0.55%	-	-
			Jan-10	2010	Q1	-			-	0.55%	-	-
			Feb-10	2010	Q1	-			-	0.55%	-	-
			Mar-10	2010	Q1	-			-	0.55%	-	-
			Apr-10	2010	Q2	-			-	0.55%	-	-
			May-10	2010	Q2	-			-	0.55%	-	-
			Jun-10	2010	Q2	-			-	0.55%	-	-
			Jul-10	2010	Q3	-			-	0.89%	-	-
			Aug-10	2010	Q3	-			-	0.89%	-	-
			Sep-10	2010	Q3	-			-	0.89%	-	-
			Oct-10	2010	Q4	-			-	1.20%	-	-
			Nov-10	2010	Q4	-			-	1.20%	-	-
			Dec-10	2010	Q4	-			-	1.20%	-	-
			Jan-11	2011	Q1	-			-	1.47%	-	-
			Feb-11	2011	Q1	-			-	1.47%	-	-
			Mar-11	2011	Q1	-			-	1.47%	-	-
			Apr-11	2011	Q2	-			-	1.47%	-	-
			May-11	2011	Q2	-			-	1.47%	-	-
			Jun-11	2011	Q2	-			-	1.47%	-	-
			Jul-11	2011	Q3	-			-	1.47%	-	-
			Aug-11	2011	Q3	-			-	1.47%	-	-
			Sep-11	2011	Q3	-			-	1.47%	-	-
			Oct-11	2011	Q4	-			-	1.47%	-	-
			Nov-11	2011	Q4	-			-	1.47%	-	-
			Dec-11	2011	Q4	-			-	1.47%	-	-
			Jan-12	2012	Q1	-			-	1.47%	-	-
			Feb-12	2012	Q1	-			-	1.47%	-	-
			Mar-12	2012	Q1	-			-	1.47%	-	-
			Apr-12	2012	Q2	-			-	1.47%	-	-
			May-12	2012	Q2	-			-	1.47%	-	-
			Jun-12	2012	Q2	-			-	1.47%	-	-
			Jul-12	2012	Q3	-			-	1.47%	-	-
			Aug-12	2012	Q3	-			-	1.47%	-	-
			Sep-12	2012	Q3	-			-	1.47%	-	-
			Oct-12	2012	Q4	-			-	1.47%	-	-
			Nov-12	2012	Q4	-			-	1.47%	-	-
			Dec-12	2012	Q4	-			-	1.47%	-	-
						\$ -	\$ -	\$ -	\$ -			



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Dutton

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

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense	Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
2006	\$ -	\$ -	\$ -	\$ -	4.37%	\$ -
2007	\$ -	\$ -	\$ -	\$ -	4.73%	\$ -
2008	\$ -	\$ -	\$ -	\$ -	3.98%	\$ -
2009	\$ 1,316.96	\$ 3,618.03	\$ 4,934.99	\$ 2,467.49	1.14%	\$ 28.07
2010	\$ 5,223.17	\$ 7,264.32	\$ 17,422.48	\$ 11,178.73	0.80%	\$ 89.15
2011	\$ 4,517.15	\$ 7,292.59	\$ 29,232.22	\$ 23,327.35	1.47%	\$ 342.91
2012	\$ 1,164.59	\$ 7,141.13	\$ 37,537.94	\$ 33,385.08	1.47%	\$ 490.76
Cumulative Interest to 2011						\$ 460.13
Cumulative Interest to 2012						\$ 950.89



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

Check if applicable

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

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ -	\$ 7,833.31	\$ 18,665.79	\$ 18,406.16	\$ 14,541.16	\$ 59,446.43
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ -	\$ 28.07	\$ 89.15	\$ 342.91		\$ 460.13
<input type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)								\$ -
<input checked="" type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)	\$ -	\$ -	\$ -	\$ 28.07	\$ 89.15	\$ 342.91		\$ 460.13
SMFA Revenues (from Sheet 8)	\$ -	\$ -	\$ -	\$ -	\$ 1,294.28	\$ 12,312.02	\$ 5,132.35	\$ 18,738.65
SMFA Interest (from Sheet 8)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 78.45	\$ 260.04	\$ 338.49
Net Deferred Revenue Requirement	\$ -	\$ -	\$ -	\$ 7,861.38	\$ 17,460.66	\$ 6,358.60	\$ 9,148.77	\$ 40,829.42
Number of Metered Customers (average for 2012 test year)							521	

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

Years for collection or refunding	3.5	
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 45,365.39	
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 19,077.14	
Net Deferred Revenue Requirement	\$ 26,288.25	
SMDR November 1, 2012 to April 30, 2016	\$ 1.20	Match
Check: Forecasted SMDR Revenues	\$ 26,258.40	

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

Incremental Revenue Requirement for 2012	\$ 14,541.16	
SMIRR	\$ 2.33	Match
Check: Forecasted SMIRR Revenues	\$ 14,567.16	

Entegrus Powerlines Inc.

SM Final Disposition – Draft Rate Order

Board File No.: EB-2012-0289

Date Filed: November 2, 2012

Attachment H
Smart Meter Model
Dutton GS<50kW



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Middlesex Power Distribution Corporation

Middlesex Power Distribution Corporation - Dutton

Application Contact Information

Name: Andrya Eagen

Title: Senior Regulatory Specialist

Phone Number: 519-352-6300 Ext 243

Email Address: andryaeagen@ckenergy.com

We are applying for rates effective: November 1, 2012

Last COS Re-based Year 2006

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.



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

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

Smart Meter Capital Cost and Operational Expense Data	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter Installation Plan								
Actual/Planned number of Smart Meters installed during the Calendar Year								
Residential								0
General Service < 50 kW				77	12			89
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	0	77	12	0	0	89
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	0.00%	86.52%	100.00%	0.00%	100.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed								0
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	0	77	12	0	0	89
1 Capital Costs								
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter			16,103	2,510	0		\$ 18,613
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter			5,736	894	0		\$ 6,630
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
Total Advanced Metering Communications Devices (AMCD)				\$ 21,839	\$ 3,404	\$ -	\$ -	\$ 25,243
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
1.2.1 Collectors								\$ -
1.2.2 Repeaters (may include radio licences, etc.)	Computer Hardware			1,261	197	0		\$ 1,458
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)								\$ -
Total Advanced Metering Regional Collector (AMRC) (includes LAN)				\$ 1,261	\$ 197	\$ -	\$ -	\$ 1,458
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)								
1.3.1 Computer Hardware								\$ -
1.3.2 Computer Software								\$ -
1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.)								\$ -
Total Advanced Metering Control Computer (AMCC)				\$ -	\$ -	\$ -	\$ -	\$ -
1.4 WIDE AREA NETWORK (WAN)								
1.4.1 Activation Fees	Applications Software			130	20	0		\$ 151
Total Wide Area Network (WAN)				\$ 130	\$ 20	\$ -	\$ -	\$ 151
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				\$ 23,231	\$ 3,620	\$ -	\$ -	\$ 26,851
1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY (Please provide a descriptive title and identify nature of beyond minimum functionality costs)								
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06	Computer Software							\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Applications Software							\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDNR, etc.								\$ -
Total Capital Costs Beyond Minimum Functionality				\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter Capital Costs				\$ 23,231	\$ 3,620	\$ -	\$ -	\$ 26,851
2 OM&A Expenses								
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
2.1.1 Maintenance (may include meter re-verification costs, etc.)				120	96	148	0	\$ 363
2.1.2 Other (please specify)								\$ -
Total Incremental AMCD OM&A Costs				\$ 120	\$ 96	\$ 148	\$ -	\$ 363



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

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

Smart Meter Capital Cost and Operational Expense Data

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

2.2.1 Maintenance

2.2.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

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

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

2.3.2 Other (please specify)

Total Incremental AMCC OM&A Costs

2.4 WIDE AREA NETWORK (WAN)

2.4.1 WAN Maintenance

2.4.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.5 OTHER AMI OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.5.1 Business Process Redesign

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

2.5.3 Program Management

2.5.4 Change Management (may include training, etc.)

2.5.5 Administration Costs

2.5.6 Other AM Expenses

(please specify)

Total Other AMI OM&A Costs Related to Minimum Functionality

TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY

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

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

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

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

Total OM&A Costs Beyond Minimum Functionality

Total Smart Meter OM&A Costs

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				14	14	10	8	\$ 46
				53	40	26	190	\$ 309
								\$ -
	\$ -	\$ -	\$ -	67	54	35	199	\$ 355
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
								\$ -
								\$ -
								\$ -
				2	0	0	0	\$ 2
				19	6	13		\$ 38
	\$ -	\$ -	\$ -	21	6	13	\$ -	\$ 39
	\$ -	\$ -	\$ -	207	156	196	199	\$ 757
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual		
								\$ -
								\$ -
				18	735	574	0	\$ 1,327
	\$ -	\$ -	\$ -	18	735	574	\$ -	\$ 1,327
	\$ -	\$ -	\$ -	225	891	770	199	\$ 2,084

3 Aggregate Smart Meter Costs by Category

3.1

Capital

3.1.1 Smart Meter

3.1.2 Computer Hardware

3.1.3 Computer Software

3.1.4 Tools & Equipment

3.1.5 Other Equipment

3.1.6 Applications Software

3.1.7 Total Capital Costs

3.2 OM&A Costs

3.2.1 Total OM&A Costs

\$ -	\$ -	\$ -	\$ 21,839	\$ 3,404	\$ -	\$ -	\$ -	\$ 25,243
\$ -	\$ -	\$ -	\$ 1,261	\$ 197	\$ -	\$ -	\$ -	\$ 1,458
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ 130	\$ 20	\$ -	\$ -	\$ -	\$ 151
\$ -	\$ -	\$ -	\$ 23,231	\$ 3,620	\$ -	\$ -	\$ -	\$ 26,851
\$ -	\$ -	\$ -	\$ 225	\$ 891	\$ 770	\$ 199	\$ -	\$ 2,084



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Dutton

	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure¹							
Deemed Short-term Debt Capitalization							
Deemed Long-term Debt Capitalization	57.0%	57.0%	60.0%	60.0%	60.0%	60.0%	60.0%
Deemed Equity Capitalization	43.0%	43.0%	40.0%	40.0%	40.0%	40.0%	40.0%
Preferred Shares	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate							
Long-term Debt Rate (actual/embedded/deemed) ²	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%
Return on Preferred Shares							
WACC	7.43%	7.43%	7.35%	7.35%	7.35%	7.35%	7.35%
Working Capital Allowance							
Working Capital Allowance Rate (% of the sum of Cost of Power + controllable expenses)	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates (expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	3	3	3	3	3	3	3
- rate (%)	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates							
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%

Assumptions

¹ Planned smart meter installations occur evenly throughout the year.

² Fiscal calendar year (January 1 to December 31) used.

³ Amortization is done on a straight line basis and has the "half-year" rule applied.



	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 21,839	\$ 25,243	\$ 25,243
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 21,839	\$ 3,404	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 21,839	\$ 25,243	\$ 25,243	\$ 25,243
Accumulated Depreciation							
Opening Balance		\$ -	\$ -	\$ -	\$ 728	\$ 2,297	\$ 3,980
Amortization expense during year	\$ -	\$ -	\$ -	\$ 728	\$ 1,569	\$ 1,683	\$ 1,683
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 728	\$ 2,297	\$ 3,980	\$ 5,663
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 21,111	\$ 22,945	\$ 21,262
Closing Balance	\$ -	\$ -	\$ -	\$ 21,111	\$ 22,945	\$ 21,262	\$ 19,580
Average Net Book Value	\$ -	\$ -	\$ -	\$ 10,556	\$ 22,028	\$ 22,104	\$ 20,421
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 1,261	\$ 1,458	\$ 1,458
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 1,261	\$ 197	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 1,261	\$ 1,458	\$ 1,458	\$ 1,458
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 126	\$ 398	\$ 690
Amortization expense during year	\$ -	\$ -	\$ -	\$ 126	\$ 272	\$ 292	\$ 292
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 126	\$ 398	\$ 690	\$ 981
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 1,135	\$ 1,060	\$ 768
Closing Balance	\$ -	\$ -	\$ -	\$ 1,135	\$ 1,060	\$ 768	\$ 477
Average Net Book Value	\$ -	\$ -	\$ -	\$ 568	\$ 1,097	\$ 914	\$ 622
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 130	\$ 151	\$ 151
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 130	\$ 20	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 130	\$ 151	\$ 151	\$ 151
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 22	\$ 69	\$ 119
Amortization expense during year	\$ -	\$ -	\$ -	\$ 22	\$ 47	\$ 50	\$ 32
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 22	\$ 69	\$ 119	\$ 151
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 109	\$ 82	\$ 32
Closing Balance	\$ -	\$ -	\$ -	\$ 109	\$ 82	\$ 32	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ 54	\$ 95	\$ 57	\$ 16
Net Fixed Assets - Tools and Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Other Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Ontario Energy Board
Smart Meter Model

Middlesex Power Distribution Corporation - Dutton

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 10,556	\$ 22,028	\$ 22,104	\$ 20,421
Computer Hardware	\$ -	\$ -	\$ -	\$ 568	\$ 1,097	\$ 914	\$ 622
Computer Software	\$ -	\$ -	\$ -	\$ 54	\$ 95	\$ 57	\$ 16
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ -	\$ 11,177	\$ 23,221	\$ 23,075	\$ 21,059
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ -	\$ 225	\$ 891	\$ 770	\$ 199
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ -	\$ 34	\$ 134	\$ 116	\$ 30
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ -	\$ 11,211	\$ 23,355	\$ 23,190	\$ 21,089
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 6,727	\$ 14,013	\$ 13,914	\$ 12,654
Equity	\$ -	\$ -	\$ -	\$ 4,484	\$ 9,342	\$ 9,276	\$ 8,436
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ -	\$ 11,211	\$ 23,355	\$ 23,190	\$ 21,089
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 420	\$ 876	\$ 870	\$ 791
Equity	\$ -	\$ -	\$ -	\$ 404	\$ 841	\$ 835	\$ 759
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ -	\$ 824	\$ 1,717	\$ 1,704	\$ 1,550
Operating Expenses	\$ -	\$ -	\$ -	\$ 225	\$ 891	\$ 770	\$ 199
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 728	\$ 1,569	\$ 1,683	\$ 1,683
Computer Hardware	\$ -	\$ -	\$ -	\$ 126	\$ 272	\$ 292	\$ 292
Computer Software	\$ -	\$ -	\$ -	\$ 22	\$ 47	\$ 50	\$ 32
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ -	\$ 876	\$ 1,888	\$ 2,025	\$ 2,006
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ -	\$ 1,924	\$ 4,495	\$ 4,499	\$ 3,755
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ -	\$ 225	\$ 891	\$ 770	\$ 199
Amortization Expense	\$ -	\$ -	\$ -	\$ 876	\$ 1,888	\$ 2,025	\$ 2,006
Interest Expense	\$ -	\$ -	\$ -	\$ 420	\$ 876	\$ 870	\$ 791
Net Income for Taxes/PILs	\$ -	\$ -	\$ -	\$ 404	\$ 841	\$ 835	\$ 759
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ -	\$ 47.28	\$ 145.31	\$ 291.42	\$ 344.64
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ -	\$ 1,972	\$ 4,641	\$ 4,791	\$ 4,100



For PILs Calculation

UCC - Smart Meters

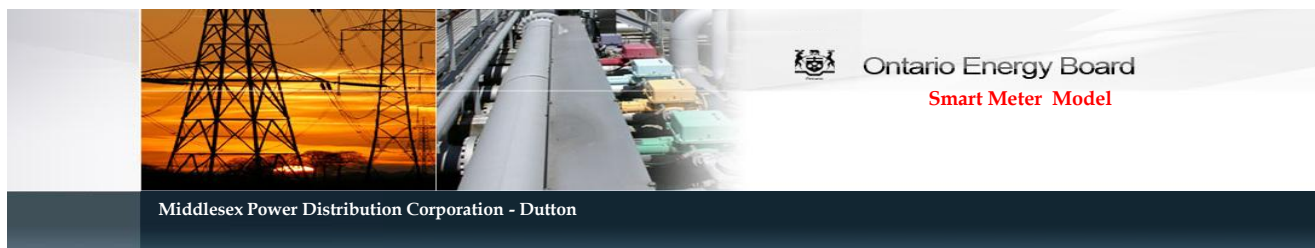
	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 20,965.60	\$ 22,555.72	\$ 20,751.26
Capital Additions	\$ -	\$ -	\$ -	\$ 21,839.17	\$ 3,403.51	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 21,839.17	\$ 24,369.11	\$ 22,555.72	\$ 20,751.26
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 10,919.58	\$ 1,701.75	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 10,919.58	\$ 22,667.36	\$ 22,555.72	\$ 20,751.26
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 873.57	\$ 1,813.39	\$ 1,804.46	\$ 1,660.10
Closing UCC	\$ -	\$ -	\$ -	\$ 20,965.60	\$ 22,555.72	\$ 20,751.26	\$ 19,091.16

UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 914.39	\$ 553.98	\$ 249.29
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 1,261.22	\$ 196.55	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 1,261.22	\$ 1,110.94	\$ 553.98	\$ 249.29
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 630.61	\$ 98.28	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 630.61	\$ 1,012.66	\$ 553.98	\$ 249.29
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ 346.84	\$ 556.96	\$ 304.69	\$ 137.11
Closing UCC	\$ -	\$ -	\$ -	\$ 914.39	\$ 553.98	\$ 249.29	\$ 112.18

UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
INCOME TAX							
Net Income	\$ -	\$ -	\$ -	\$ 403.60	\$ 840.77	\$ 834.85	\$ 759.21
Amortization	\$ -	\$ -	\$ -	\$ 875.81	\$ 1,888.11	\$ 2,024.59	\$ 2,006.27
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 873.57	\$ 1,813.39	\$ 1,804.46	\$ 1,660.10
CCA - Computers	\$ -	\$ -	\$ -	\$ 346.84	\$ 556.96	\$ 304.69	\$ 137.11
CCA - Applications Software	\$ -	\$ -	\$ -	\$ 65.14	\$ 75.29	\$ 10.15	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ -	\$ 6.13	\$ 283.23	\$ 740.15	\$ 968.27
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ -	\$ 2.02	\$ 87.80	\$ 209.09	\$ 254.17
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ -	\$ 21,111.20	\$ 22,945.31	\$ 21,262.46	\$ 19,579.62
Computer Hardware	\$ -	\$ -	\$ -	\$ 1,135.10	\$ 1,059.75	\$ 768.20	\$ 476.64
Computer Software (Including Application Software)	\$ -	\$ -	\$ -	\$ 108.57	\$ 82.06	\$ 31.86	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ -	\$ 22,354.86	\$ 24,087.12	\$ 22,062.53	\$ 20,056.26
Less: Exemption	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ -	\$ 22,354.86	\$ 24,087.12	\$ 22,062.53	\$ 20,056.26
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ -	\$ 50.30	\$ 18.07	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 2.02	\$ 87.80	\$ 209.09	\$ 254.17
Change in OCT	\$ -	\$ -	\$ -	\$ 50.30	\$ 18.07	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 48.27	\$ 105.87	\$ 209.09	\$ 254.17
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 3.02	\$ 127.25	\$ 291.42	\$ 344.64
Change in OCT	\$ -	\$ -	\$ -	\$ 50.30	\$ 18.07	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 47.28	\$ 145.31	\$ 291.42	\$ 344.64



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Dutton

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ -		4.59%	\$ -	\$ -	\$ -	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ -		5.14%	\$ -	\$ -	\$ -	
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ -		5.14%	\$ -	\$ -		
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			May-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			Jun-08	2008	Q2	\$ -		4.08%	\$ -	\$ -		
			Jul-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Aug-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Sep-08	2008	Q3	\$ -		3.35%	\$ -	\$ -		
			Oct-08	2008	Q4	\$ -		3.35%	\$ -	\$ -		
			Nov-08	2008	Q4	\$ -		3.35%	\$ -	\$ -		
			Dec-08	2008	Q4	\$ -		3.35%	\$ -	\$ -	\$ -	
			Jan-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Feb-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Mar-09	2009	Q1	\$ -		2.45%	\$ -	\$ -		
			Apr-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			May-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			Jun-09	2009	Q2	\$ -		1.00%	\$ -	\$ -		
			Jul-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Aug-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Sep-09	2009	Q3	\$ -		0.55%	\$ -	\$ -		
			Oct-09	2009	Q4	\$ -		0.55%	\$ -	\$ -		
			Nov-09	2009	Q4	\$ -		0.55%	\$ -	\$ -		
			Dec-09	2009	Q4	\$ -		0.55%	\$ -	\$ -	\$ -	
			Jan-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Feb-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Mar-10	2010	Q1	\$ -		0.55%	\$ -	\$ -		
			Apr-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		
			May-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		
			Jun-10	2010	Q2	\$ -		0.55%	\$ -	\$ -		
			Jul-10	2010	Q3	\$ -		0.89%	\$ -	\$ -		
			Aug-10	2010	Q3	\$ -		0.89%	\$ -	\$ -		
			Sep-10	2010	Q3	\$ -		0.89%	\$ -	\$ -		
			Oct-10	2010	Q4	\$ -		1.20%	\$ -	\$ -		
			Nov-10	2010	Q4	\$ -		1.20%	\$ -	\$ -		
			Dec-10	2010	Q4	\$ -	\$ 225.17	1.20%	\$ -	\$ 225.17	\$ 225.17	\$ 1.00
			Jan-11	2011	Q1	\$ 225.17	\$ 89.00	1.47%	\$ 0.28	\$ 314.45	\$ -	\$ 1.00
			Feb-11	2011	Q1	\$ 314.17	\$ 89.00	1.47%	\$ 0.38	\$ 403.55	\$ -	\$ 1.00
			Mar-11	2011	Q1	\$ 403.17	\$ 89.40	1.47%	\$ 0.49	\$ 493.06	\$ -	\$ 1.00
			Apr-11	2011	Q2	\$ 492.57	\$ 88.60	1.47%	\$ 0.60	\$ 581.77	\$ -	\$ 1.00
			May-11	2011	Q2	\$ 581.17	\$ 89.00	1.47%	\$ 0.71	\$ 670.88	\$ -	\$ 2.50
			Jun-11	2011	Q2	\$ 670.17	\$ 165.31	1.47%	\$ 0.82	\$ 836.30	\$ -	\$ 2.50
			Jul-11	2011	Q3	\$ 835.48	\$ 222.50	1.47%	\$ 1.02	\$ 1,059.00	\$ -	\$ 2.50
			Aug-11	2011	Q3	\$ 1,057.98	\$ 222.42	1.47%	\$ 1.30	\$ 1,281.70	\$ -	\$ 2.50
			Sep-11	2011	Q3	\$ 1,280.40	\$ 222.83	1.47%	\$ 1.57	\$ 1,504.80	\$ -	\$ 2.50
			Oct-11	2011	Q4	\$ 1,503.23	\$ 222.75	1.47%	\$ 1.84	\$ 1,727.82	\$ -	\$ 2.50
			Nov-11	2011	Q4	\$ 1,725.98	\$ 223.58	1.47%	\$ 2.11	\$ 1,951.67	\$ -	\$ 2.50
			Dec-11	2011	Q4	\$ 1,949.56	\$ 384.12	1.47%	\$ 2.39	\$ 2,336.07	\$ 2,122.02	\$ 2.50



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
			Jan-12	2012	Q1	\$ 2,333.68	\$ 222.50	1.47%	\$ 2.86	\$ 2,559.04		\$ 2.50
			Feb-12	2012	Q1	\$ 2,556.18	\$ 222.50	1.47%	\$ 3.13	\$ 2,781.81		\$ 2.50
			Mar-12	2012	Q1	\$ 2,778.68	\$ 222.50	1.47%	\$ 3.40	\$ 3,004.58		\$ 2.50
			Apr-12	2012	Q2	\$ 3,001.18	\$ 222.50	1.47%	\$ 3.68	\$ 3,227.36		
			May-12	2012	Q2	\$ 3,223.68	\$ 22.73	1.47%	\$ 3.95	\$ 3,204.90		
			Jun-12	2012	Q2	\$ 3,200.95		1.47%	\$ 3.92	\$ 3,204.87		
			Jul-12	2012	Q3	\$ 3,200.95		1.47%	\$ 3.92	\$ 3,204.87		
			Aug-12	2012	Q3	\$ 3,200.95		1.47%	\$ 3.92	\$ 3,204.87		
			Sep-12	2012	Q3	\$ 3,200.95		1.47%	\$ 3.92	\$ 3,204.87		
			Oct-12	2012	Q4	\$ 3,200.95		1.47%	\$ 3.92	\$ 3,204.87		
			Nov-12	2012	Q4	\$ 3,200.95		1.47%	\$ 3.92	\$ 3,204.87		
			Dec-12	2012	Q4	\$ 3,200.95		1.47%	\$ 3.92	\$ 3,204.87	\$ 911.73	
Total Funding Adder Revenues Collected						\$ 3,200.95			\$ 57.97	\$ 3,258.92	\$ 3,258.92	



Middlesex Power Distribution Corporation - Dutton

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

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-			-	4.59%	-	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-			-	4.59%	-	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-			-	4.59%	-	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-			-	4.59%	-	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-			-	4.59%	-	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	-			-	5.14%	-	-
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	-			-	5.14%	-	-
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	-			-	5.14%	-	-
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	-			-	5.14%	-	-
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	-			-	4.08%	-	-
			May-08	2008	Q2	-			-	4.08%	-	-
			Jun-08	2008	Q2	-			-	4.08%	-	-
			Jul-08	2008	Q3	-			-	3.35%	-	-
			Aug-08	2008	Q3	-			-	3.35%	-	-
			Sep-08	2008	Q3	-			-	3.35%	-	-
			Oct-08	2008	Q4	-			-	3.35%	-	-
			Nov-08	2008	Q4	-			-	3.35%	-	-
			Dec-08	2008	Q4	-			-	3.35%	-	-
			Jan-09	2009	Q1	-			-	2.45%	-	-
			Feb-09	2009	Q1	-			-	2.45%	-	-
			Mar-09	2009	Q1	-			-	2.45%	-	-
			Apr-09	2009	Q2	-			-	1.00%	-	-
			May-09	2009	Q2	-			-	1.00%	-	-
			Jun-09	2009	Q2	-			-	1.00%	-	-
			Jul-09	2009	Q3	-			-	0.55%	-	-
			Aug-09	2009	Q3	-			-	0.55%	-	-
			Sep-09	2009	Q3	-			-	0.55%	-	-
			Oct-09	2009	Q4	-			-	0.55%	-	-
			Nov-09	2009	Q4	-			-	0.55%	-	-
			Dec-09	2009	Q4	-			-	0.55%	-	-
			Jan-10	2010	Q1	-			-	0.55%	-	-
			Feb-10	2010	Q1	-			-	0.55%	-	-
			Mar-10	2010	Q1	-			-	0.55%	-	-
			Apr-10	2010	Q2	-			-	0.55%	-	-
			May-10	2010	Q2	-			-	0.55%	-	-
			Jun-10	2010	Q2	-			-	0.55%	-	-
			Jul-10	2010	Q3	-			-	0.89%	-	-
			Aug-10	2010	Q3	-			-	0.89%	-	-
			Sep-10	2010	Q3	-			-	0.89%	-	-
			Oct-10	2010	Q4	-			-	1.20%	-	-
			Nov-10	2010	Q4	-			-	1.20%	-	-
			Dec-10	2010	Q4	-			-	1.20%	-	-
			Jan-11	2011	Q1	-			-	1.47%	-	-
			Feb-11	2011	Q1	-			-	1.47%	-	-
			Mar-11	2011	Q1	-			-	1.47%	-	-
			Apr-11	2011	Q2	-			-	1.47%	-	-
			May-11	2011	Q2	-			-	1.47%	-	-
			Jun-11	2011	Q2	-			-	1.47%	-	-
			Jul-11	2011	Q3	-			-	1.47%	-	-
			Aug-11	2011	Q3	-			-	1.47%	-	-
			Sep-11	2011	Q3	-			-	1.47%	-	-
			Oct-11	2011	Q4	-			-	1.47%	-	-
			Nov-11	2011	Q4	-			-	1.47%	-	-
			Dec-11	2011	Q4	-			-	1.47%	-	-
			Jan-12	2012	Q1	-			-	1.47%	-	-
			Feb-12	2012	Q1	-			-	1.47%	-	-
			Mar-12	2012	Q1	-			-	1.47%	-	-
			Apr-12	2012	Q2	-			-	1.47%	-	-
			May-12	2012	Q2	-			-	1.47%	-	-
			Jun-12	2012	Q2	-			-	1.47%	-	-
			Jul-12	2012	Q3	-			-	1.47%	-	-
			Aug-12	2012	Q3	-			-	1.47%	-	-
			Sep-12	2012	Q3	-			-	1.47%	-	-
			Oct-12	2012	Q4	-			-	1.47%	-	-
			Nov-12	2012	Q4	-			-	1.47%	-	-
			Dec-12	2012	Q4	-			-	1.47%	-	-
						\$	-	\$	-	\$	-	-



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Dutton

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

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense	Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
2006	\$ -	\$ -	\$ -	\$ -	4.37%	\$ -
2007	\$ -	\$ -	\$ -	\$ -	4.73%	\$ -
2008	\$ -	\$ -	\$ -	\$ -	3.98%	\$ -
2009	\$ 224.60	\$ 875.81	\$ 1,100.41	\$ 550.20	1.14%	\$ 6.26
2010	\$ 890.77	\$ 1,888.11	\$ 3,879.28	\$ 2,489.84	0.80%	\$ 19.86
2011	\$ 770.37	\$ 2,024.59	\$ 6,674.25	\$ 5,276.76	1.47%	\$ 77.57
2012	\$ 198.61	\$ 2,006.27	\$ 8,879.12	\$ 7,776.68	1.47%	\$ 114.32
Cumulative Interest to 2011						\$ 103.68
Cumulative Interest to 2012						\$ 218.00



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

Check if applicable

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

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ -	\$ 1,971.70	\$ 4,640.75	\$ 4,790.87	\$ 4,099.57	\$ 15,502.90
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ -	\$ 6.26	\$ 19.86	\$ 77.57		\$ 103.68
<input type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)								\$ -
<input checked="" type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)	\$ -	\$ -	\$ -	\$ 6.26	\$ 19.86	\$ 77.57		\$ 103.68
SMFA Revenues (from Sheet 8)	\$ -	\$ -	\$ -	\$ -	\$ 225.17	\$ 2,108.51	\$ 867.27	\$ 3,200.95
SMFA Interest (from Sheet 8)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13.51	\$ 44.46	\$ 57.97
Net Deferred Revenue Requirement	\$ -	\$ -	\$ -	\$ 1,977.96	\$ 4,435.44	\$ 2,746.42	\$ 3,187.84	\$ 12,347.66
Number of Metered Customers (average for 2012 test year)							89	

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

Years for collection or refunding	3.5	
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 11,507.01	
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 3,258.92	
Net Deferred Revenue Requirement	\$ 8,248.09	
SMDR November 1, 2012 to April 30, 2016	\$ 2.21	Match
Check: Forecasted SMDR Revenues	\$ 8,260.98	

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

Incremental Revenue Requirement for 2012	\$ 4,099.57	
SMIRR	\$ 3.84	Match
Check: Forecasted SMIRR Revenues	\$ 4,101.12	

Entegrus Powerlines Inc.

SM Final Disposition – Draft Rate Order

Board File No.: EB-2012-0289

Date Filed: November 2, 2012

Attachment I
Smart Meter Model
Newbury Residential



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Middlesex Power Distribution Corporation - Newbury

Midland Power Utility Corporation

Application Contact Information

Name: Andrya Eagen

Title: Senior Regulatory Specialist

Phone Number: 519-352-6300 Ext 243

Email Address: andryaeagen@ckenergy.com

We are applying for rates effective: November 1, 2012

Last COS Re-based Year 2006

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.



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

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

Smart Meter Capital Cost and Operational Expense Data	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter Installation Plan								
Actual/Planned number of Smart Meters installed during the Calendar Year								
Residential				170				170
General Service < 50 kW								0
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	0	170	0	0	0	170
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%	0.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed								0
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	0	170	0	0	0	170
1 Capital Costs								
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter			18,467	0	0		\$ 18,467
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter			6,693	0	0		\$ 6,693
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
Total Advanced Metering Communications Devices (AMCD)	\$ -	\$ -	\$ -	\$ 25,161	\$ -	\$ -	\$ -	\$ 25,161
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.2.1 Collectors								\$ -
1.2.2 Repeaters (may include radio licences, etc.)	Computer Hardware			2,974	0	0		\$ 2,974
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)								\$ -
Total Advanced Metering Regional Collector (AMRC) (includes LAN)	\$ -	\$ -	\$ -	\$ 2,974	\$ -	\$ -	\$ -	\$ 2,974
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.3.1 Computer Hardware								\$ -
1.3.2 Computer Software								\$ -
1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.)								\$ -
Total Advanced Metering Control Computer (AMCC)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.4 WIDE AREA NETWORK (WAN)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.4.1 Activation Fees	Applications Software			321	0	0		\$ 321
Total Wide Area Network (WAN)	\$ -	\$ -	\$ -	\$ 321	\$ -	\$ -	\$ -	\$ 321
1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
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	\$ -	\$ -	\$ -	\$ 28,455	\$ -	\$ -	\$ -	\$ 28,455
1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06	Computer Software							\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Applications Software							\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDNR, etc.								\$ -
Total Capital Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter Capital Costs	\$ -	\$ -	\$ -	\$ 28,455	\$ -	\$ -	\$ -	\$ 28,455
2 OM&A Expenses								
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
2.1.1 Maintenance (may include meter re-verification costs, etc.)				231	186	285	0	\$ 702
2.1.2 Other (please specify)								\$ -
Total Incremental AMCD OM&A Costs	\$ -	\$ -	\$ -	\$ 231	\$ 186	\$ 285	\$ -	\$ 702





Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Newbury

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

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

Smart Meter Capital Cost and Operational Expense Data

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
2.2.1 Maintenance								\$ -
2.2.2 Other (please specify)								\$ -
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

2.3.1 Hardware Maintenance (may include server support, etc.)				26	28	19	16	\$ 89
2.3.2 Software Maintenance (may include maintenance support, etc.)				102	77	50	367	\$ 597
2.3.2 Other (please specify)								\$ -
Total Incremental AMCC OM&A Costs	\$ -	\$ -	\$ -	\$ 128	\$ 104	\$ 68	\$ 384	\$ 685

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				3	0	0	0	\$ 3
2.5.6 Other AM Expenses (please specify)				36	11	25		\$ 73
Total Other AMI OM&A Costs Related to Minimum Functionality	\$ -	\$ -	\$ -	\$ 40	\$ 11	\$ 25	\$ -	\$ 76
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY	\$ -	\$ -	\$ -	\$ 400	\$ 301	\$ 379	\$ 384	\$ 1,463

2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY

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

2.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06								\$ -
2.6.2 Costs for deployment of smart meters to customers other than residential and small general service								\$ -
2.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDMR, etc.				34	1,419	1,110	0	\$ 2,563
Total OM&A Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ 34	\$ 1,419	\$ 1,110	\$ -	\$ 2,563
Total Smart Meter OM&A Costs	\$ -	\$ -	\$ -	\$ 434	\$ 1,721	\$ 1,488	\$ 384	\$ 4,027

3 Aggregate Smart Meter Costs by Category

3.1 Capital								
3.1.1 Smart Meter	\$ -	\$ -	\$ -	\$ 25,161	\$ -	\$ -	\$ -	\$ 25,161
3.1.2 Computer Hardware	\$ -	\$ -	\$ -	\$ 2,974	\$ -	\$ -	\$ -	\$ 2,974
3.1.3 Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.4 Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.5 Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3.1.6 Applications Software	\$ -	\$ -	\$ -	\$ 321	\$ -	\$ -	\$ -	\$ 321
3.1.7 Total Capital Costs	\$ -	\$ -	\$ -	\$ 28,455	\$ -	\$ -	\$ -	\$ 28,455
3.2 OM&A Costs								
3.2.1 Total OM&A Costs	\$ -	\$ -	\$ -	\$ 434	\$ 1,721	\$ 1,488	\$ 384	\$ 4,027



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Newbury

	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure¹							
Deemed Short-term Debt Capitalization							
Deemed Long-term Debt Capitalization	50.0%	50.0%	53.3%	56.7%	60.0%	60.0%	60.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%
Preferred Shares	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate							
Long-term Debt Rate (actual/embedded/deemed) ²	7.25%	7.25%	7.25%	7.25%	7.25%	7.25%	7.25%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%
Return on Preferred Shares							
WACC	8.13%	8.13%	8.07%	8.01%	7.95%	7.95%	7.95%
Working Capital Allowance							
Working Capital Allowance Rate (% of the sum of Cost of Power + controllable expenses)	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates (expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	3	3	3	3	3	3	3
- rate (%)	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates							
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%

Assumptions

¹ Planned smart meter installations occur evenly throughout the year.

² Fiscal calendar year (January 1 to December 31) used.

³ Amortization is done on a straight line basis and has the "half-year" rule applied.



	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 25,161	\$ 25,161	\$ 25,161
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 25,161	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 25,161	\$ 25,161	\$ 25,161	\$ 25,161
Accumulated Depreciation							
Opening Balance		\$ -	\$ -	\$ -	\$ 839	\$ 2,516	\$ 4,193
Amortization expense during year	\$ -	\$ -	\$ -	\$ 839	\$ 1,677	\$ 1,677	\$ 1,677
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 839	\$ 2,516	\$ 4,193	\$ 5,871
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 24,322	\$ 22,644	\$ 20,967
Closing Balance	\$ -	\$ -	\$ -	\$ 24,322	\$ 22,644	\$ 20,967	\$ 19,290
Average Net Book Value	\$ -	\$ -	\$ -	\$ 12,161	\$ 23,483	\$ 21,806	\$ 20,128
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 2,974	\$ 2,974	\$ 2,974
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 2,974	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 2,974	\$ 2,974	\$ 2,974	\$ 2,974
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 297	\$ 892	\$ 1,487
Amortization expense during year	\$ -	\$ -	\$ -	\$ 297	\$ 595	\$ 595	\$ 595
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 297	\$ 892	\$ 1,487	\$ 2,082
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 2,677	\$ 2,082	\$ 1,487
Closing Balance	\$ -	\$ -	\$ -	\$ 2,677	\$ 2,082	\$ 1,487	\$ 892
Average Net Book Value	\$ -	\$ -	\$ -	\$ 1,339	\$ 2,380	\$ 1,785	\$ 1,190
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 321	\$ 321	\$ 321
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 321	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 321	\$ 321	\$ 321	\$ 321
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 53	\$ 160	\$ 267
Amortization expense during year	\$ -	\$ -	\$ -	\$ 53	\$ 107	\$ 107	\$ 53
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 53	\$ 160	\$ 267	\$ 321
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 267	\$ 160	\$ 53
Closing Balance	\$ -	\$ -	\$ -	\$ 267	\$ 160	\$ 53	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ 134	\$ 214	\$ 107	\$ 27
Net Fixed Assets - Tools and Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Other Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Middlesex Power Distribution Corporation - Newbury

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 12,161	\$ 23,483	\$ 21,806	\$ 20,128
Computer Hardware	\$ -	\$ -	\$ -	\$ 1,339	\$ 2,380	\$ 1,785	\$ 1,190
Computer Software	\$ -	\$ -	\$ -	\$ 134	\$ 214	\$ 107	\$ 27
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ -	\$ 13,633	\$ 26,076	\$ 23,697	\$ 21,345
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ -	\$ 434	\$ 1,721	\$ 1,488	\$ 384
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ -	\$ 65	\$ 258	\$ 223	\$ 58
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ -	\$ 13,698	\$ 26,335	\$ 23,921	\$ 21,402
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 7,767	\$ 15,801	\$ 14,352	\$ 12,841
Equity	\$ -	\$ -	\$ -	\$ 5,931	\$ 10,534	\$ 9,568	\$ 8,561
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ -	\$ 13,698	\$ 26,335	\$ 23,921	\$ 21,402
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 563	\$ 1,146	\$ 1,041	\$ 931
Equity	\$ -	\$ -	\$ -	\$ 534	\$ 948	\$ 861	\$ 770
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ -	\$ 1,097	\$ 2,094	\$ 1,902	\$ 1,701
Operating Expenses	\$ -	\$ -	\$ -	\$ 434	\$ 1,721	\$ 1,488	\$ 384
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 839	\$ 1,677	\$ 1,677	\$ 1,677
Computer Hardware	\$ -	\$ -	\$ -	\$ 297	\$ 595	\$ 595	\$ 595
Computer Software	\$ -	\$ -	\$ -	\$ 53	\$ 107	\$ 107	\$ 53
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ -	\$ 1,190	\$ 2,379	\$ 2,379	\$ 2,326
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ -	\$ 2,720	\$ 6,194	\$ 5,769	\$ 4,411
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ -	\$ 434	\$ 1,721	\$ 1,488	\$ 384
Amortization Expense	\$ -	\$ -	\$ -	\$ 1,190	\$ 2,379	\$ 2,379	\$ 2,326
Interest Expense	\$ -	\$ -	\$ -	\$ 563	\$ 1,146	\$ 1,041	\$ 931
Net Income for Taxes/PILs	\$ -	\$ -	\$ -	\$ 534	\$ 948	\$ 861	\$ 770
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ -	\$ 67.35	\$ 40.45	\$ 365.68	\$ 434.40
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ -	\$ 2,653	\$ 6,234	\$ 6,135	\$ 4,845



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Newbury

For PILs Calculation

UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 24,154.12	\$ 22,221.79	\$ 20,444.05
Capital Additions	\$ -	\$ -	\$ -	\$ 25,160.54	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 25,160.54	\$ 24,154.12	\$ 22,221.79	\$ 20,444.05
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 12,580.27	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 12,580.27	\$ 24,154.12	\$ 22,221.79	\$ 20,444.05
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 1,006.42	\$ 1,932.33	\$ 1,777.74	\$ 1,635.52
Closing UCC	\$ -	\$ -	\$ -	\$ 24,154.12	\$ 22,221.79	\$ 20,444.05	\$ 18,808.52

UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 2,156.48	\$ 970.42	\$ 436.69
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 2,974.45	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 2,974.45	\$ 2,156.48	\$ 970.42	\$ 436.69
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 1,487.23	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 1,487.23	\$ 2,156.48	\$ 970.42	\$ 436.69
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ 817.97	\$ 1,186.06	\$ 533.73	\$ 240.18
Closing UCC	\$ -	\$ -	\$ -	\$ 2,156.48	\$ 970.42	\$ 436.69	\$ 196.51

UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
INCOME TAX							
Net Income	\$ -	\$ -	\$ -	\$ 533.81	\$ 948.04	\$ 861.14	\$ 770.49
Amortization	\$ -	\$ -	\$ -	\$ 1,189.55	\$ 2,379.10	\$ 2,379.10	\$ 2,325.68
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 1,006.42	\$ 1,932.33	\$ 1,777.74	\$ 1,635.52
CCA - Computers	\$ -	\$ -	\$ -	\$ 817.97	\$ 1,186.06	\$ 533.73	\$ 240.18
CCA - Applications Software	\$ -	\$ -	\$ -	\$ 160.25	\$ 160.25	\$ -	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ -	\$ 261.29	\$ 48.49	\$ 928.76	\$ 1,220.47
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ -	\$ 86.23	\$ 15.03	\$ 262.38	\$ 320.37
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ -	\$ 24,321.86	\$ 22,644.49	\$ 20,967.12	\$ 19,289.75
Computer Hardware	\$ -	\$ -	\$ -	\$ 2,677.01	\$ 2,082.12	\$ 1,487.23	\$ 892.34
Computer Software (Including Application Software)	\$ -	\$ -	\$ -	\$ 267.09	\$ 160.25	\$ 53.42	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ -	\$ 27,265.95	\$ 24,886.86	\$ 22,507.76	\$ 20,182.08
Less: Exemption	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ -	\$ 27,265.95	\$ 24,886.86	\$ 22,507.76	\$ 20,182.08
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ -	\$ 61.35	\$ 18.67	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 86.23	\$ 15.03	\$ 262.38	\$ 320.37
Change in OCT	\$ -	\$ -	\$ -	\$ 61.35	\$ 18.67	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 24.88	\$ 33.70	\$ 262.38	\$ 320.37
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 128.69	\$ 21.79	\$ 365.68	\$ 434.40
Change in OCT	\$ -	\$ -	\$ -	\$ 61.35	\$ 18.67	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 67.35	\$ 40.45	\$ 365.68	\$ 434.40



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Newbury

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ -		4.59%	\$ -	\$ -	\$ -	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ -	\$ 4.87	5.14%	\$ -	\$ 4.87		\$ 0.25
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ 4.87	\$ 40.89	5.14%	\$ 0.02	\$ 45.78	\$ 45.78	\$ 0.25
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ 45.76	\$ 41.43	5.14%	\$ 0.20	\$ 87.39		\$ 0.25
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ 87.19	\$ 41.28	5.14%	\$ 0.37	\$ 128.84		\$ 0.25
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ 128.47	\$ 41.19	5.14%	\$ 0.55	\$ 170.21		\$ 0.25
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	\$ 169.66	\$ 41.19	4.08%	\$ 0.58	\$ 211.43		\$ 0.25
			May-08	2008	Q2	\$ 210.85	\$ 41.37	4.08%	\$ 0.72	\$ 252.94		\$ 0.25
			Jun-08	2008	Q2	\$ 252.22	\$ 41.04	4.08%	\$ 0.86	\$ 294.12		\$ 0.25
			Jul-08	2008	Q3	\$ 293.26	\$ 42.12	3.35%	\$ 0.82	\$ 336.20		\$ 0.25
			Aug-08	2008	Q3	\$ 335.38	\$ 41.50	3.35%	\$ 0.94	\$ 377.82		\$ 0.25
			Sep-08	2008	Q3	\$ 376.88	\$ 41.07	3.35%	\$ 1.05	\$ 419.00		\$ 0.25
			Oct-08	2008	Q4	\$ 417.95	\$ 42.33	3.35%	\$ 1.17	\$ 461.45		\$ 0.25
			Nov-08	2008	Q4	\$ 460.28	\$ 41.64	3.35%	\$ 1.28	\$ 503.20		\$ 0.25
			Dec-08	2008	Q4	\$ 501.92	\$ 42.21	3.35%	\$ 1.40	\$ 545.53	\$ 508.31	\$ 0.25
			Jan-09	2009	Q1	\$ 544.13	\$ 42.17	2.45%	\$ 1.11	\$ 587.41		\$ 0.25
			Feb-09	2009	Q1	\$ 586.30	\$ 42.25	2.45%	\$ 1.20	\$ 629.75		\$ 0.25
			Mar-09	2009	Q1	\$ 628.55	\$ 41.65	2.45%	\$ 1.28	\$ 671.48		\$ 0.25
			Apr-09	2009	Q2	\$ 670.20	\$ 42.97	1.00%	\$ 0.56	\$ 713.73		\$ 0.25
			May-09	2009	Q2	\$ 713.17	\$ -	1.00%	\$ 0.59	\$ 713.76		\$ 1.00
			Jun-09	2009	Q2	\$ 713.17	\$ 52.42	1.00%	\$ 0.59	\$ 766.18		\$ 1.00
			Jul-09	2009	Q3	\$ 765.59	\$ 166.27	0.55%	\$ 0.35	\$ 932.21		\$ 1.00
			Aug-09	2009	Q3	\$ 931.86	\$ 167.94	0.55%	\$ 0.43	\$ 1,100.23		\$ 1.00
			Sep-09	2009	Q3	\$ 1,099.80	\$ 167.37	0.55%	\$ 0.50	\$ 1,267.67		\$ 1.00
			Oct-09	2009	Q4	\$ 1,267.17	\$ 166.30	0.55%	\$ 0.58	\$ 1,434.05		\$ 1.00
			Nov-09	2009	Q4	\$ 1,433.47	\$ 168.63	0.55%	\$ 0.66	\$ 1,602.76		\$ 1.00
			Dec-09	2009	Q4	\$ 1,602.10	\$ 247.86	0.55%	\$ 0.73	\$ 1,850.69	\$ 1,314.41	\$ 1.00
			Jan-10	2010	Q1	\$ 1,849.96	\$ 167.86	0.55%	\$ 0.85	\$ 2,018.67		\$ 1.00
			Feb-10	2010	Q1	\$ 2,017.82	\$ 167.63	0.55%	\$ 0.92	\$ 2,186.37		\$ 1.00
			Mar-10	2010	Q1	\$ 2,185.45	\$ 168.50	0.55%	\$ 1.00	\$ 2,354.95		\$ 1.00
			Apr-10	2010	Q2	\$ 2,353.95	\$ 168.53	0.55%	\$ 1.08	\$ 2,523.56		\$ 1.00
			May-10	2010	Q2	\$ 2,522.48	\$ 167.43	0.55%	\$ 1.16	\$ 2,691.07		\$ 1.00
			Jun-10	2010	Q2	\$ 2,689.91	\$ 168.77	0.55%	\$ 1.23	\$ 2,859.91		\$ 1.00
			Jul-10	2010	Q3	\$ 2,858.68	\$ 167.79	0.89%	\$ 2.12	\$ 3,028.59		\$ 1.00
			Aug-10	2010	Q3	\$ 3,026.47	\$ 165.20	0.89%	\$ 2.24	\$ 3,193.91		\$ 1.00
			Sep-10	2010	Q3	\$ 3,191.67	\$ 167.23	0.89%	\$ 2.37	\$ 3,361.27		\$ 1.00
			Oct-10	2010	Q4	\$ 3,358.90	\$ 167.97	1.20%	\$ 3.36	\$ 3,530.23		\$ 1.00
			Nov-10	2010	Q4	\$ 3,526.87	\$ 167.23	1.20%	\$ 3.53	\$ 3,697.63		\$ 1.00
			Dec-10	2010	Q4	\$ 3,694.10	\$ 67.00	1.20%	\$ 3.69	\$ 3,764.79	\$ 1,934.69	\$ 1.00
			Jan-11	2011	Q1	\$ 3,761.10	\$ 165.74	1.47%	\$ 4.61	\$ 3,931.45		\$ 1.00
			Feb-11	2011	Q1	\$ 3,926.84	\$ 168.87	1.47%	\$ 4.81	\$ 4,100.52		\$ 1.00
			Mar-11	2011	Q1	\$ 4,095.71	\$ 168.26	1.47%	\$ 5.02	\$ 4,268.99		\$ 1.00
			Apr-11	2011	Q2	\$ 4,263.97	\$ 169.19	1.47%	\$ 5.22	\$ 4,438.38		\$ 1.00
			May-11	2011	Q2	\$ 4,433.16	\$ 167.00	1.47%	\$ 5.43	\$ 4,605.59		\$ 2.50
			Jun-11	2011	Q2	\$ 4,600.16	\$ 295.17	1.47%	\$ 5.64	\$ 4,900.97		\$ 2.50
			Jul-11	2011	Q3	\$ 4,895.33	\$ 419.50	1.47%	\$ 6.00	\$ 5,320.83		\$ 2.50
			Aug-11	2011	Q3	\$ 5,314.83	\$ 421.59	1.47%	\$ 6.51	\$ 5,742.93		\$ 2.50
			Sep-11	2011	Q3	\$ 5,736.42	\$ 418.00	1.47%	\$ 7.03	\$ 6,161.45		\$ 2.50
			Oct-11	2011	Q4	\$ 6,154.42	\$ 422.00	1.47%	\$ 7.54	\$ 6,583.96		\$ 2.50
			Nov-11	2011	Q4	\$ 6,576.42	\$ 419.66	1.47%	\$ 8.06	\$ 7,004.14		\$ 2.50
			Dec-11	2011	Q4	\$ 6,996.08	\$ 891.08	1.47%	\$ 8.57	\$ 7,895.73	\$ 4,200.50	\$ 2.50



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
			Jan-12	2012	Q1	\$ 7,887.16	\$ 418.91	1.47%	\$ 9.66	\$ 8,315.73		\$ 2.50
			Feb-12	2012	Q1	\$ 8,306.07	\$ 419.92	1.47%	\$ 10.17	\$ 8,736.16		\$ 2.50
			Mar-12	2012	Q1	\$ 8,725.99	\$ 418.09	1.47%	\$ 10.69	\$ 9,154.77		\$ 2.50
			Apr-12	2012	Q2	\$ 9,144.08	\$ 418.33	1.47%	\$ 11.20	\$ 9,573.61		\$ 2.50
			May-12	2012	Q2	\$ 9,562.41	\$ 40.92	1.47%	\$ 11.71	\$ 9,533.20		
			Jun-12	2012	Q2	\$ 9,521.49		1.47%	\$ 11.66	\$ 9,533.15		
			Jul-12	2012	Q3	\$ 9,521.49		1.47%	\$ 11.66	\$ 9,533.15		
			Aug-12	2012	Q3	\$ 9,521.49		1.47%	\$ 11.66	\$ 9,533.15		
			Sep-12	2012	Q3	\$ 9,521.49		1.47%	\$ 11.66	\$ 9,533.15		
			Oct-12	2012	Q4	\$ 9,521.49		1.47%	\$ 11.66	\$ 9,533.15		
			Nov-12	2012	Q4	\$ 9,521.49		1.47%	\$ 11.66	\$ 9,533.15		
			Dec-12	2012	Q4	\$ 9,521.49		1.47%	\$ 11.66	\$ 9,533.15	\$ 1,769.38	
Total Funding Adder Revenues Collected						\$ 9,521.49			\$ 251.58	\$ 9,773.07	\$ 9,773.07	



Middlesex Power Distribution Corporation - Newbury

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

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-			-	4.59%	-	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-			-	4.59%	-	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-			-	4.59%	-	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-			-	4.59%	-	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-			-	4.59%	-	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	-			-	5.14%	-	-
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	-			-	5.14%	-	-
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	-			-	5.14%	-	-
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	-			-	5.14%	-	-
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	-			-	4.08%	-	-
			May-08	2008	Q2	-			-	4.08%	-	-
			Jun-08	2008	Q2	-			-	4.08%	-	-
			Jul-08	2008	Q3	-			-	3.35%	-	-
			Aug-08	2008	Q3	-			-	3.35%	-	-
			Sep-08	2008	Q3	-			-	3.35%	-	-
			Oct-08	2008	Q4	-			-	3.35%	-	-
			Nov-08	2008	Q4	-			-	3.35%	-	-
			Dec-08	2008	Q4	-			-	3.35%	-	-
			Jan-09	2009	Q1	-			-	2.45%	-	-
			Feb-09	2009	Q1	-			-	2.45%	-	-
			Mar-09	2009	Q1	-			-	2.45%	-	-
			Apr-09	2009	Q2	-			-	1.00%	-	-
			May-09	2009	Q2	-			-	1.00%	-	-
			Jun-09	2009	Q2	-			-	1.00%	-	-
			Jul-09	2009	Q3	-			-	0.55%	-	-
			Aug-09	2009	Q3	-			-	0.55%	-	-
			Sep-09	2009	Q3	-			-	0.55%	-	-
			Oct-09	2009	Q4	-			-	0.55%	-	-
			Nov-09	2009	Q4	-			-	0.55%	-	-
			Dec-09	2009	Q4	-			-	0.55%	-	-
			Jan-10	2010	Q1	-			-	0.55%	-	-
			Feb-10	2010	Q1	-			-	0.55%	-	-
			Mar-10	2010	Q1	-			-	0.55%	-	-
			Apr-10	2010	Q2	-			-	0.55%	-	-
			May-10	2010	Q2	-			-	0.55%	-	-
			Jun-10	2010	Q2	-			-	0.55%	-	-
			Jul-10	2010	Q3	-			-	0.89%	-	-
			Aug-10	2010	Q3	-			-	0.89%	-	-
			Sep-10	2010	Q3	-			-	0.89%	-	-
			Oct-10	2010	Q4	-			-	1.20%	-	-
			Nov-10	2010	Q4	-			-	1.20%	-	-
			Dec-10	2010	Q4	-			-	1.20%	-	-
			Jan-11	2011	Q1	-			-	1.47%	-	-
			Feb-11	2011	Q1	-			-	1.47%	-	-
			Mar-11	2011	Q1	-			-	1.47%	-	-
			Apr-11	2011	Q2	-			-	1.47%	-	-
			May-11	2011	Q2	-			-	1.47%	-	-
			Jun-11	2011	Q2	-			-	1.47%	-	-
			Jul-11	2011	Q3	-			-	1.47%	-	-
			Aug-11	2011	Q3	-			-	1.47%	-	-
			Sep-11	2011	Q3	-			-	1.47%	-	-
			Oct-11	2011	Q4	-			-	1.47%	-	-
			Nov-11	2011	Q4	-			-	1.47%	-	-
			Dec-11	2011	Q4	-			-	1.47%	-	-
			Jan-12	2012	Q1	-			-	1.47%	-	-
			Feb-12	2012	Q1	-			-	1.47%	-	-
			Mar-12	2012	Q1	-			-	1.47%	-	-
			Apr-12	2012	Q2	-			-	1.47%	-	-
			May-12	2012	Q2	-			-	1.47%	-	-
			Jun-12	2012	Q2	-			-	1.47%	-	-
			Jul-12	2012	Q3	-			-	1.47%	-	-
			Aug-12	2012	Q3	-			-	1.47%	-	-
			Sep-12	2012	Q3	-			-	1.47%	-	-
			Oct-12	2012	Q4	-			-	1.47%	-	-
			Nov-12	2012	Q4	-			-	1.47%	-	-
			Dec-12	2012	Q4	-			-	1.47%	-	-
						\$ -		\$ -	\$ -			



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Newbury

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

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense	Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
2006	\$ -	\$ -	\$ -	\$ -	4.37%	\$ -
2007	\$ -	\$ -	\$ -	\$ -	4.73%	\$ -
2008	\$ -	\$ -	\$ -	\$ -	3.98%	\$ -
2009	\$ 433.88	\$ 1,189.55	\$ 1,623.43	\$ 811.71	1.14%	\$ 9.23
2010	\$ 1,720.81	\$ 2,379.10	\$ 5,723.34	\$ 3,673.38	0.80%	\$ 29.30
2011	\$ 1,488.21	\$ 2,379.10	\$ 9,590.64	\$ 7,656.99	1.47%	\$ 112.56
2012	\$ 383.68	\$ 2,325.68	\$ 12,300.00	\$ 10,945.32	1.47%	\$ 160.90
Cumulative Interest to 2011						\$ 151.09
Cumulative Interest to 2012						\$ 311.98



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

Check if applicable

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

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ -	\$ 2,652.99	\$ 6,233.95	\$ 6,134.67	\$ 4,845.26	\$ 19,866.87
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ -	\$ 9.23	\$ 29.30	\$ 112.56		\$ 151.09
<input type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)								\$ -
<input checked="" type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)	\$ -	\$ -	\$ -	\$ 9.23	\$ 29.30	\$ 112.56		\$ 151.09
SMFA Revenues (from Sheet 8)	\$ -	\$ 45.76	\$ 498.37	\$ 1,305.83	\$ 1,911.14	\$ 4,126.06	\$ 1,634.33	\$ 9,521.49
SMFA Interest (from Sheet 8)	\$ -	\$ 0.02	\$ 9.94	\$ 8.58	\$ 23.55	\$ 74.44	\$ 135.05	\$ 251.58
Net Deferred Revenue Requirement	\$ -	\$ 45.78	\$ 508.31	\$ 1,347.81	\$ 4,328.56	\$ 2,046.73	\$ 3,075.88	\$ 10,244.89
Number of Metered Customers (average for 2012 test year)							168	

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

Years for collection or refunding	3.5	
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 15,172.70	
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 9,773.07	
Net Deferred Revenue Requirement	\$ 5,399.63	
SMDR November 1, 2012 to April 30, 2016	\$ 0.77	Match
Check: Forecasted SMDR Revenues	\$ 5,433.12	

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

Incremental Revenue Requirement for 2012	\$ 4,845.26	
SMIRR	\$ 2.40	Match
Check: Forecasted SMIRR Revenues	\$ 4,838.40	

Entegrus Powerlines Inc.

SM Final Disposition – Draft Rate Order

Board File No.: EB-2012-0289

Date Filed: November 2, 2012

Attachment J
Smart Meter Model
Newbury GS<50kW



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Middlesex Power Distribution Corporation - Newbury

Midland Power Utility Corporation

Application Contact Information

Name: Andrya Eagen

Title: Senior Regulatory Specialist

Phone Number: 519-352-6300 Ext 243

Email Address: andryaeagen@ckenergy.com

We are applying for rates effective: November 1, 2012

Last COS Re-based Year 2006

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.



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

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

Smart Meter Capital Cost and Operational Expense Data	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter Installation Plan								
Actual/Planned number of Smart Meters installed during the Calendar Year								
Residential								0
General Service < 50 kW				31				31
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	0	31	0	0	0	31
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%	0.00%	100.00%
Actual/Planned number of GS > 50 kW meters installed								0
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	0	31	0	0	0	31
1 Capital Costs								
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter			4,800	0	0		\$ 4,800
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter			1,233	0	0		\$ 1,233
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
Total Advanced Metering Communications Devices (AMCD)	\$ -	\$ -	\$ -	\$ 6,034	\$ -	\$ -	\$ -	\$ 6,034
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.2.1 Collectors								\$ -
1.2.2 Repeaters (may include radio licences, etc.)	Computer Hardware			729	0	0		\$ 729
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)								\$ -
Total Advanced Metering Regional Collector (AMRC) (includes LAN)	\$ -	\$ -	\$ -	\$ 729	\$ -	\$ -	\$ -	\$ 729
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.3.1 Computer Hardware								\$ -
1.3.2 Computer Software								\$ -
1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.)								\$ -
Total Advanced Metering Control Computer (AMCC)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.4 WIDE AREA NETWORK (WAN)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.4.1 Activation Fees	Applications Software			75	0	0		\$ 75
Total Wide Area Network (WAN)	\$ -	\$ -	\$ -	\$ 75	\$ -	\$ -	\$ -	\$ 75
1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
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	\$ -	\$ -	\$ -	\$ 6,838	\$ -	\$ -	\$ -	\$ 6,838
1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06	Computer Software							\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Applications Software							\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDNR, etc.								\$ -
Total Capital Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter Capital Costs	\$ -	\$ -	\$ -	\$ 6,838	\$ -	\$ -	\$ -	\$ 6,838
2 OM&A Expenses								
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
2.1.1 Maintenance (may include meter re-verification costs, etc.)				42	34	52	0	\$ 128
2.1.2 Other (please specify)								\$ -
Total Incremental AMCD OM&A Costs	\$ -	\$ -	\$ -	\$ 42	\$ 34	\$ 52	\$ -	\$ 128





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

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

Smart Meter Capital Cost and Operational Expense Data

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

2.2.1 Maintenance

2.2.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

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

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

2.3.2 Other (please specify)

Total Incremental AMCC OM&A Costs

2.4 WIDE AREA NETWORK (WAN)

2.4.1 WAN Maintenance

2.4.2 Other (please specify)

Total Incremental AMRC OM&A Costs

2.5 OTHER AMI OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.5.1 Business Process Redesign

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

2.5.3 Program Management

2.5.4 Change Management (may include training, etc.)

2.5.5 Administration Costs

2.5.6 Other AM Expenses

(please specify)

Total Other AMI OM&A Costs Related to Minimum Functionality

TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY

2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY

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

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

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

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

Total OM&A Costs Beyond Minimum Functionality

Total Smart Meter OM&A Costs

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				5	5	3	3	\$ 16
				19	14	9	67	\$ 109
								\$ -
	\$ -	\$ -	\$ -	23	19	12	70	\$ 125
								\$ -
								\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
								\$ -
								\$ -
								\$ -
				1	0	0	0	\$ 1
				7	2	5	0	\$ 13
	\$ -	\$ -	\$ -	7	2	5	-	\$ 14
	\$ -	\$ -	\$ -	73	55	69	70	\$ 267
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual		
								\$ -
								\$ -
				6	259	202	0	\$ 467
	\$ -	\$ -	\$ -	6	259	202	-	\$ 467
	\$ -	\$ -	\$ -	79	314	271	70	\$ 734

3 Aggregate Smart Meter Costs by Category

3.1

Capital

3.1.1 Smart Meter

3.1.2 Computer Hardware

3.1.3 Computer Software

3.1.4 Tools & Equipment

3.1.5 Other Equipment

3.1.6 Applications Software

3.1.7 Total Capital Costs

3.2 OM&A Costs

3.2.1 Total OM&A Costs

\$ -	\$ -	\$ -	\$ 6,034	\$ -	\$ -	\$ -	\$ -	\$ 6,034
\$ -	\$ -	\$ -	\$ 729	\$ -	\$ -	\$ -	\$ -	\$ 729
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
\$ -	\$ -	\$ -	\$ 75	\$ -	\$ -	\$ -	\$ -	\$ 75
\$ -	\$ -	\$ -	\$ 6,838	\$ -	\$ -	\$ -	\$ -	\$ 6,838
\$ -	\$ -	\$ -	\$ 79	\$ 314	\$ 271	\$ 70	\$ -	\$ 734



Ontario Energy Board

Smart Meter Model

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	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure¹							
Deemed Short-term Debt Capitalization							
Deemed Long-term Debt Capitalization	50.0%	50.0%	53.3%	56.7%	60.0%	60.0%	60.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%
Preferred Shares	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate							
Long-term Debt Rate (actual/embedded/deemed) ²	7.25%	7.25%	7.25%	7.25%	7.25%	7.25%	7.25%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%
Return on Preferred Shares							
WACC	8.13%	8.13%	8.07%	8.01%	7.95%	7.95%	7.95%
Working Capital Allowance							
Working Capital Allowance Rate (% of the sum of Cost of Power + controllable expenses)	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates (expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	3	3	3	3	3	3	3
- rate (%)	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates							
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%

Assumptions

¹ Planned smart meter installations occur evenly throughout the year.

² Fiscal calendar year (January 1 to December 31) used.

³ Amortization is done on a straight line basis and has the "half-year" rule applied.



	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 6,034	\$ 6,034	\$ 6,034
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 6,034	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 6,034	\$ 6,034	\$ 6,034	\$ 6,034
Accumulated Depreciation							
Opening Balance		\$ -	\$ -	\$ -	\$ 201	\$ 603	\$ 1,006
Amortization expense during year	\$ -	\$ -	\$ -	\$ 201	\$ 402	\$ 402	\$ 402
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 201	\$ 603	\$ 1,006	\$ 1,408
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 5,833	\$ 5,430	\$ 5,028
Closing Balance	\$ -	\$ -	\$ -	\$ 5,833	\$ 5,430	\$ 5,028	\$ 4,626
Average Net Book Value	\$ -	\$ -	\$ -	\$ 2,916	\$ 5,631	\$ 5,229	\$ 4,827
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 729	\$ 729	\$ 729
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 729	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 729	\$ 729	\$ 729	\$ 729
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 73	\$ 219	\$ 364
Amortization expense during year	\$ -	\$ -	\$ -	\$ 73	\$ 146	\$ 146	\$ 146
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 73	\$ 219	\$ 364	\$ 510
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 656	\$ 510	\$ 364
Closing Balance	\$ -	\$ -	\$ -	\$ 656	\$ 510	\$ 364	\$ 219
Average Net Book Value	\$ -	\$ -	\$ -	\$ 328	\$ 563	\$ 437	\$ 292
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 75	\$ 75	\$ 75
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 75	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 75	\$ 75	\$ 75	\$ 75
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 13	\$ 38	\$ 63
Amortization expense during year	\$ -	\$ -	\$ -	\$ 13	\$ 25	\$ 25	\$ 13
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 13	\$ 38	\$ 63	\$ 75
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 63	\$ 38	\$ 13
Closing Balance	\$ -	\$ -	\$ -	\$ 63	\$ 38	\$ 13	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ 31	\$ 50	\$ 25	\$ 6
Net Fixed Assets - Tools and Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Other Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



Ontario Energy Board
Smart Meter Model

Middlesex Power Distribution Corporation - Newbury

	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 2,916	\$ 5,631	\$ 5,229	\$ 4,827
Computer Hardware	\$ -	\$ -	\$ -	\$ 328	\$ 583	\$ 437	\$ 292
Computer Software	\$ -	\$ -	\$ -	\$ 31	\$ 50	\$ 25	\$ 6
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ -	\$ 3,276	\$ 6,265	\$ 5,692	\$ 5,125
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ -	\$ 79	\$ 314	\$ 271	\$ 70
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ -	\$ 12	\$ 47	\$ 41	\$ 10
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ -	\$ 3,288	\$ 6,312	\$ 5,732	\$ 5,135
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 1,864	\$ 3,787	\$ 3,439	\$ 3,081
Equity	\$ -	\$ -	\$ -	\$ 1,423	\$ 2,525	\$ 2,293	\$ 2,054
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ -	\$ 3,288	\$ 6,312	\$ 5,732	\$ 5,135
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 135	\$ 275	\$ 249	\$ 223
Equity	\$ -	\$ -	\$ -	\$ 128	\$ 227	\$ 206	\$ 185
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ -	\$ 263	\$ 502	\$ 456	\$ 408
Operating Expenses	\$ -	\$ -	\$ -	\$ 79	\$ 314	\$ 271	\$ 70
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 201	\$ 402	\$ 402	\$ 402
Computer Hardware	\$ -	\$ -	\$ -	\$ 73	\$ 146	\$ 146	\$ 146
Computer Software	\$ -	\$ -	\$ -	\$ 13	\$ 25	\$ 25	\$ 13
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ -	\$ 287	\$ 573	\$ 573	\$ 561
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ -	\$ 629	\$ 1,389	\$ 1,300	\$ 1,039
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ -	\$ 79	\$ 314	\$ 271	\$ 70
Amortization Expense	\$ -	\$ -	\$ -	\$ 287	\$ 573	\$ 573	\$ 561
Interest Expense	\$ -	\$ -	\$ -	\$ 135	\$ 275	\$ 249	\$ 223
Net Income for Taxes/PILs	\$ -	\$ -	\$ -	\$ 128	\$ 227	\$ 206	\$ 185
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ -	\$ 17.16	\$ 8.38	\$ 87.56	\$ 104.78
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ -	\$ 612	\$ 1,397	\$ 1,388	\$ 1,144



Ontario Energy Board

Smart Meter Model

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For PILs Calculation

UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 5,792.33	\$ 5,328.95	\$ 4,902.63
Capital Additions	\$ -	\$ -	\$ -	\$ 6,033.68	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 6,033.68	\$ 5,792.33	\$ 5,328.95	\$ 4,902.63
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 3,016.84	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 3,016.84	\$ 5,792.33	\$ 5,328.95	\$ 4,902.63
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 241.35	\$ 463.39	\$ 426.32	\$ 392.21
Closing UCC	\$ -	\$ -	\$ -	\$ 5,792.33	\$ 5,328.95	\$ 4,902.63	\$ 4,510.42

UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 528.44	\$ 237.80	\$ 107.01
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 728.89	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 728.89	\$ 528.44	\$ 237.80	\$ 107.01
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 364.44	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 364.44	\$ 528.44	\$ 237.80	\$ 107.01
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ 200.44	\$ 290.64	\$ 130.79	\$ 58.86
Closing UCC	\$ -	\$ -	\$ -	\$ 528.44	\$ 237.80	\$ 107.01	\$ 48.15

UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
INCOME TAX							
Net Income	\$ -	\$ -	\$ -	\$ 128.11	\$ 227.23	\$ 206.36	\$ 184.87
Amortization	\$ -	\$ -	\$ -	\$ 286.56	\$ 573.12	\$ 573.12	\$ 560.57
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 241.35	\$ 463.39	\$ 426.32	\$ 392.21
CCA - Computers	\$ -	\$ -	\$ -	\$ 200.44	\$ 290.64	\$ 130.79	\$ 58.86
CCA - Applications Software	\$ -	\$ -	\$ -	\$ 37.65	\$ 37.65	\$ -	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ -	\$ 64.76	\$ 8.67	\$ 222.38	\$ 294.38
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ -	\$ 21.37	\$ 2.69	\$ 62.82	\$ 77.27
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ -	\$ 5,832.56	\$ 5,430.31	\$ 5,028.07	\$ 4,625.82
Computer Hardware	\$ -	\$ -	\$ -	\$ 656.00	\$ 510.22	\$ 364.44	\$ 218.67
Computer Software (Including Application Software)	\$ -	\$ -	\$ -	\$ 62.74	\$ 37.65	\$ 12.55	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ -	\$ 6,551.30	\$ 5,978.18	\$ 5,405.06	\$ 4,844.49
Less: Exemption	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ -	\$ 6,551.30	\$ 5,978.18	\$ 5,405.06	\$ 4,844.49
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ -	\$ 14.74	\$ 4.48	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 21.37	\$ 2.69	\$ 62.82	\$ 77.27
Change in OCT	\$ -	\$ -	\$ -	\$ 14.74	\$ 4.48	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 6.63	\$ 7.17	\$ 62.82	\$ 77.27
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 31.90	\$ 3.89	\$ 87.56	\$ 104.78
Change in OCT	\$ -	\$ -	\$ -	\$ 14.74	\$ 4.48	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 17.16	\$ 8.38	\$ 87.56	\$ 104.78



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Newbury

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ -		4.59%	\$ -	\$ -	\$ -	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ -	\$ 0.91	5.14%	\$ -	\$ 0.91		\$ 0.25
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ 0.91	\$ 7.25	5.14%	\$ -	\$ 8.16	\$ 8.16	\$ 0.25
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ 8.16	\$ 7.25	5.14%	\$ 0.03	\$ 15.44		\$ 0.25
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ 15.41	\$ 7.25	5.14%	\$ 0.07	\$ 22.73		\$ 0.25
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ 22.66	\$ 7.25	5.14%	\$ 0.10	\$ 30.01		\$ 0.25
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	\$ 29.91	\$ 7.00	4.08%	\$ 0.10	\$ 37.01		\$ 0.25
			May-08	2008	Q2	\$ 36.91	\$ 7.00	4.08%	\$ 0.13	\$ 44.04		\$ 0.25
			Jun-08	2008	Q2	\$ 43.91	\$ 7.25	4.08%	\$ 0.15	\$ 51.31		\$ 0.25
			Jul-08	2008	Q3	\$ 51.16	\$ 7.25	3.35%	\$ 0.14	\$ 58.55		\$ 0.25
			Aug-08	2008	Q3	\$ 58.41	\$ 7.25	3.35%	\$ 0.16	\$ 65.82		\$ 0.25
			Sep-08	2008	Q3	\$ 65.66	\$ 7.25	3.35%	\$ 0.18	\$ 73.09		\$ 0.25
			Oct-08	2008	Q4	\$ 72.91	\$ 7.25	3.35%	\$ 0.20	\$ 80.36		\$ 0.25
			Nov-08	2008	Q4	\$ 80.16	\$ 7.15	3.35%	\$ 0.22	\$ 87.53		\$ 0.25
			Dec-08	2008	Q4	\$ 87.31	\$ 7.36	3.35%	\$ 0.24	\$ 94.91	\$ 88.23	\$ 0.25
			Jan-09	2009	Q1	\$ 94.67	\$ 7.25	2.45%	\$ 0.19	\$ 102.11		\$ 0.25
			Feb-09	2009	Q1	\$ 101.92	\$ 7.25	2.45%	\$ 0.21	\$ 109.38		\$ 0.25
			Mar-09	2009	Q1	\$ 109.17	\$ 7.00	2.45%	\$ 0.22	\$ 116.39		\$ 0.25
			Apr-09	2009	Q2	\$ 116.17	\$ 7.00	1.00%	\$ 0.10	\$ 123.27		\$ 0.25
			May-09	2009	Q2	\$ 123.17	\$ -	1.00%	\$ 0.10	\$ 123.27		\$ 1.00
			Jun-09	2009	Q2	\$ 123.17	\$ 14.00	1.00%	\$ 0.10	\$ 137.27		\$ 1.00
			Jul-09	2009	Q3	\$ 137.17	\$ 29.00	0.55%	\$ 0.06	\$ 166.23		\$ 1.00
			Aug-09	2009	Q3	\$ 166.17	\$ 29.50	0.55%	\$ 0.08	\$ 195.75		\$ 1.00
			Sep-09	2009	Q3	\$ 195.67	\$ 30.00	0.55%	\$ 0.09	\$ 225.76		\$ 1.00
			Oct-09	2009	Q4	\$ 225.67	\$ 30.00	0.55%	\$ 0.10	\$ 255.77		\$ 1.00
			Nov-09	2009	Q4	\$ 255.67	\$ 31.20	0.55%	\$ 0.12	\$ 286.99		\$ 1.00
			Dec-09	2009	Q4	\$ 286.87	\$ 80.60	0.55%	\$ 0.13	\$ 367.60	\$ 274.30	\$ 1.00
			Jan-10	2010	Q1	\$ 367.47	\$ 31.00	0.55%	\$ 0.17	\$ 398.64		\$ 1.00
			Feb-10	2010	Q1	\$ 398.47	\$ 31.00	0.55%	\$ 0.18	\$ 429.65		\$ 1.00
			Mar-10	2010	Q1	\$ 429.47	\$ 31.00	0.55%	\$ 0.20	\$ 460.67		\$ 1.00
			Apr-10	2010	Q2	\$ 460.47	\$ 31.00	0.55%	\$ 0.21	\$ 491.68		\$ 1.00
			May-10	2010	Q2	\$ 491.47	\$ 31.00	0.55%	\$ 0.23	\$ 522.70		\$ 1.00
			Jun-10	2010	Q2	\$ 522.47	\$ 31.00	0.55%	\$ 0.24	\$ 553.71		\$ 1.00
			Jul-10	2010	Q3	\$ 553.47	\$ 31.00	0.89%	\$ 0.41	\$ 584.88		\$ 1.00
			Aug-10	2010	Q3	\$ 584.47	\$ 31.00	0.89%	\$ 0.43	\$ 615.90		\$ 1.00
			Sep-10	2010	Q3	\$ 615.47	\$ 31.00	0.89%	\$ 0.46	\$ 646.93		\$ 1.00
			Oct-10	2010	Q4	\$ 646.47	\$ 31.00	1.20%	\$ 0.65	\$ 678.12		\$ 1.00
			Nov-10	2010	Q4	\$ 677.47	\$ 31.00	1.20%	\$ 0.68	\$ 709.15		\$ 1.00
			Dec-10	2010	Q4	\$ 708.47	\$ 12.97	1.20%	\$ 0.71	\$ 722.15	\$ 358.54	\$ 1.00
			Jan-11	2011	Q1	\$ 721.44	\$ 31.10	1.47%	\$ 0.88	\$ 753.42		\$ 1.00
			Feb-11	2011	Q1	\$ 752.54	\$ 31.00	1.47%	\$ 0.92	\$ 784.46		\$ 1.00
			Mar-11	2011	Q1	\$ 783.54	\$ 31.00	1.47%	\$ 0.96	\$ 815.50		\$ 1.00
			Apr-11	2011	Q2	\$ 814.54	\$ 31.00	1.47%	\$ 1.00	\$ 846.54		\$ 1.00
			May-11	2011	Q2	\$ 845.54	\$ 31.00	1.47%	\$ 1.04	\$ 877.58		\$ 2.50
			Jun-11	2011	Q2	\$ 876.54	\$ 54.25	1.47%	\$ 1.07	\$ 931.86		\$ 2.50
			Jul-11	2011	Q3	\$ 930.79	\$ 77.50	1.47%	\$ 1.14	\$ 1,009.43		\$ 2.50
			Aug-11	2011	Q3	\$ 1,008.29	\$ 77.50	1.47%	\$ 1.24	\$ 1,087.03		\$ 2.50
			Sep-11	2011	Q3	\$ 1,085.79	\$ 77.50	1.47%	\$ 1.33	\$ 1,164.62		\$ 2.50
			Oct-11	2011	Q4	\$ 1,163.29	\$ 77.50	1.47%	\$ 1.43	\$ 1,242.22		\$ 2.50
			Nov-11	2011	Q4	\$ 1,240.79	\$ 77.50	1.47%	\$ 1.52	\$ 1,319.81		\$ 2.50
			Dec-11	2011	Q4	\$ 1,318.29	\$ 164.67	1.47%	\$ 1.61	\$ 1,484.57	\$ 775.66	\$ 2.50



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP				Opening Balance (Principal)	Funding Adder Revenues	Interest		Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
			Date	Year	Quarter			Rate	Interest			
			Jan-12	2012	Q1	\$ 1,482.96	\$ 77.50	1.47%	\$ 1.82	\$ 1,562.28		\$ 2.50
			Feb-12	2012	Q1	\$ 1,560.46	\$ 77.50	1.47%	\$ 1.91	\$ 1,639.87		\$ 2.50
			Mar-12	2012	Q1	\$ 1,637.96	\$ 77.50	1.47%	\$ 2.01	\$ 1,717.47		\$ 2.50
			Apr-12	2012	Q2	\$ 1,715.46	\$ 77.50	1.47%	\$ 2.10	\$ 1,795.06		\$ 2.50
			May-12	2012	Q2	\$ 1,792.96	\$ 7.76	1.47%	\$ 2.20	\$ 1,787.40		
			Jun-12	2012	Q2	\$ 1,785.20		1.47%	\$ 2.19	\$ 1,787.39		
			Jul-12	2012	Q3	\$ 1,785.20		1.47%	\$ 2.19	\$ 1,787.39		
			Aug-12	2012	Q3	\$ 1,785.20		1.47%	\$ 2.19	\$ 1,787.39		
			Sep-12	2012	Q3	\$ 1,785.20		1.47%	\$ 2.19	\$ 1,787.39		
			Oct-12	2012	Q4	\$ 1,785.20		1.47%	\$ 2.19	\$ 1,787.39		
			Nov-12	2012	Q4	\$ 1,785.20		1.47%	\$ 2.19	\$ 1,787.39		
			Dec-12	2012	Q4	\$ 1,785.20		1.47%	\$ 2.19	\$ 1,787.39	\$ 327.61	
Total Funding Adder Revenues Collected						\$ 1,785.20			\$ 47.30	\$ 1,832.50	\$ 1,832.50	



Middlesex Power Distribution Corporation - Newbury

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

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-			-	4.59%	-	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-			-	4.59%	-	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-			-	4.59%	-	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-			-	4.59%	-	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-			-	4.59%	-	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	-			-	5.14%	-	-
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	-			-	5.14%	-	-
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	-			-	5.14%	-	-
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	-			-	5.14%	-	-
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	-			-	4.08%	-	-
			May-08	2008	Q2	-			-	4.08%	-	-
			Jun-08	2008	Q2	-			-	4.08%	-	-
			Jul-08	2008	Q3	-			-	3.35%	-	-
			Aug-08	2008	Q3	-			-	3.35%	-	-
			Sep-08	2008	Q3	-			-	3.35%	-	-
			Oct-08	2008	Q4	-			-	3.35%	-	-
			Nov-08	2008	Q4	-			-	3.35%	-	-
			Dec-08	2008	Q4	-			-	3.35%	-	-
			Jan-09	2009	Q1	-			-	2.45%	-	-
			Feb-09	2009	Q1	-			-	2.45%	-	-
			Mar-09	2009	Q1	-			-	2.45%	-	-
			Apr-09	2009	Q2	-			-	1.00%	-	-
			May-09	2009	Q2	-			-	1.00%	-	-
			Jun-09	2009	Q2	-			-	1.00%	-	-
			Jul-09	2009	Q3	-			-	0.55%	-	-
			Aug-09	2009	Q3	-			-	0.55%	-	-
			Sep-09	2009	Q3	-			-	0.55%	-	-
			Oct-09	2009	Q4	-			-	0.55%	-	-
			Nov-09	2009	Q4	-			-	0.55%	-	-
			Dec-09	2009	Q4	-			-	0.55%	-	-
			Jan-10	2010	Q1	-			-	0.55%	-	-
			Feb-10	2010	Q1	-			-	0.55%	-	-
			Mar-10	2010	Q1	-			-	0.55%	-	-
			Apr-10	2010	Q2	-			-	0.55%	-	-
			May-10	2010	Q2	-			-	0.55%	-	-
			Jun-10	2010	Q2	-			-	0.55%	-	-
			Jul-10	2010	Q3	-			-	0.89%	-	-
			Aug-10	2010	Q3	-			-	0.89%	-	-
			Sep-10	2010	Q3	-			-	0.89%	-	-
			Oct-10	2010	Q4	-			-	1.20%	-	-
			Nov-10	2010	Q4	-			-	1.20%	-	-
			Dec-10	2010	Q4	-			-	1.20%	-	-
			Jan-11	2011	Q1	-			-	1.47%	-	-
			Feb-11	2011	Q1	-			-	1.47%	-	-
			Mar-11	2011	Q1	-			-	1.47%	-	-
			Apr-11	2011	Q2	-			-	1.47%	-	-
			May-11	2011	Q2	-			-	1.47%	-	-
			Jun-11	2011	Q2	-			-	1.47%	-	-
			Jul-11	2011	Q3	-			-	1.47%	-	-
			Aug-11	2011	Q3	-			-	1.47%	-	-
			Sep-11	2011	Q3	-			-	1.47%	-	-
			Oct-11	2011	Q4	-			-	1.47%	-	-
			Nov-11	2011	Q4	-			-	1.47%	-	-
			Dec-11	2011	Q4	-			-	1.47%	-	-
			Jan-12	2012	Q1	-			-	1.47%	-	-
			Feb-12	2012	Q1	-			-	1.47%	-	-
			Mar-12	2012	Q1	-			-	1.47%	-	-
			Apr-12	2012	Q2	-			-	1.47%	-	-
			May-12	2012	Q2	-			-	1.47%	-	-
			Jun-12	2012	Q2	-			-	1.47%	-	-
			Jul-12	2012	Q3	-			-	1.47%	-	-
			Aug-12	2012	Q3	-			-	1.47%	-	-
			Sep-12	2012	Q3	-			-	1.47%	-	-
			Oct-12	2012	Q4	-			-	1.47%	-	-
			Nov-12	2012	Q4	-			-	1.47%	-	-
			Dec-12	2012	Q4	-			-	1.47%	-	-
						\$	-	\$	-	\$	-	-



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Newbury

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

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense	Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
2006	\$ -	\$ -	\$ -	\$ -	4.37%	\$ -
2007	\$ -	\$ -	\$ -	\$ -	4.73%	\$ -
2008	\$ -	\$ -	\$ -	\$ -	3.98%	\$ -
2009	\$ 79.12	\$ 286.56	\$ 365.68	\$ 182.84	1.14%	\$ 2.08
2010	\$ 313.80	\$ 573.12	\$ 1,252.60	\$ 809.14	0.80%	\$ 6.45
2011	\$ 271.38	\$ 573.12	\$ 2,097.09	\$ 1,674.84	1.47%	\$ 24.62
2012	\$ 69.97	\$ 560.57	\$ 2,727.63	\$ 2,412.36	1.47%	\$ 35.46
Cumulative Interest to 2011						\$ 33.15
Cumulative Interest to 2012						\$ 68.61



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

Check if applicable

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

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ -	\$ 611.78	\$ 1,397.08	\$ 1,387.78	\$ 1,143.57	\$ 4,540.21
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ -	\$ 2.08	\$ 6.45	\$ 24.62		\$ 33.15
<input type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)								\$ -
<input checked="" type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)	\$ -	\$ -	\$ -	\$ 2.08	\$ 6.45	\$ 24.62		\$ 33.15
SMFA Revenues (from Sheet 8)	\$ -	\$ 8.16	\$ 86.51	\$ 272.80	\$ 353.97	\$ 761.52	\$ 302.24	\$ 1,785.20
SMFA Interest (from Sheet 8)	\$ -	\$ -	\$ 1.72	\$ 1.50	\$ 4.57	\$ 14.14	\$ 25.37	\$ 47.30
Net Deferred Revenue Requirement	\$ -	\$ 8.16	\$ 88.23	\$ 339.56	\$ 1,045.00	\$ 636.74	\$ 815.96	\$ 2,740.86
Number of Metered Customers (average for 2012 test year)							31	

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

Years for collection or refunding	3.5	
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 3,429.79	
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 1,832.50	
Net Deferred Revenue Requirement	\$ 1,597.29	
SMDR November 1, 2012 to April 30, 2016	\$ 1.23	Match
Check: Forecasted SMDR Revenues	\$ 1,601.46	

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

Incremental Revenue Requirement for 2012	\$ 1,143.57	
SMIRR	\$ 3.07	Match
Check: Forecasted SMIRR Revenues	\$ 1,142.04	

Entegrus Powerlines Inc.

SM Final Disposition – Draft Rate Order

Board File No.: EB-2012-0289

Date Filed: November 2, 2012

**Attachment K
Smart Meter Model
Newbury GS>50kW**



Ontario Energy Board

Smart Meter Model

Choose Your Utility:

Middlesex Power Distribution Corporation - Newbury

Midland Power Utility Corporation

Application Contact Information

Name: Andrya Eagen

Title: Senior Regulatory Specialist

Phone Number: 519-352-6300 Ext 243

Email Address: andryaeagen@ckenergy.com

We are applying for rates effective: November 1, 2012

Last COS Re-based Year 2006

Legend

DROP-DOWN MENU

INPUT FIELD

CALCULATION FIELD

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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.



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

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

Smart Meter Capital Cost and Operational Expense Data	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
Smart Meter Installation Plan								
Actual/Planned number of Smart Meters installed during the Calendar Year								
Residential								0
General Service < 50 kW								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%	0.00%	0.00%	0.00%	
Actual/Planned number of GS > 50 kW meters installed				4				4
Other (please identify)								0
Total Number of Smart Meters installed or planned to be installed	0	0	0	4	0	0	0	4
1 Capital Costs								
1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter			2,462	0	0		\$ 2,462
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter			306	0	0		\$ 306
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)								\$ -
Total Advanced Metering Communications Devices (AMCD)	\$ -	\$ -	\$ -	\$ 2,768	\$ -	\$ -	\$ -	\$ 2,768
1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.2.1 Collectors								\$ -
1.2.2 Repeaters (may include radio licence, etc.)				0	0	0		\$ -
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)								\$ -
Total Advanced Metering Regional Collector (AMRC) (includes LAN)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.3.1 Computer Hardware								\$ -
1.3.2 Computer Software								\$ -
1.3.3 Computer Software Licences & Installation (includes hardware and software) (may include AS/400 disk space, backup and recovery computer, UPS, etc.)								\$ -
Total Advanced Metering Control Computer (AMCC)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.4 WIDE AREA NETWORK (WAN)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.4.1 Activation Fees				0	0	0		\$ -
Total Wide Area Network (WAN)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
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	\$ -	\$ -	\$ -	\$ 2,768	\$ -	\$ -	\$ -	\$ 2,768
1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06	Computer Software							\$ -
1.6.2 Costs for deployment of smart meters to customers other than residential and small general service	Applications Software							\$ -
1.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDNR, etc.								\$ -
Total Capital Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter Capital Costs	\$ -	\$ -	\$ -	\$ 2,768	\$ -	\$ -	\$ -	\$ 2,768
2 OM&A Expenses								
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
2.1.1 Maintenance (may include meter re-verification costs, etc.)				5	4	7	0	\$ 17
2.1.2 Other (please specify)								\$ -
Total Incremental AMCD OM&A Costs	\$ -	\$ -	\$ -	\$ 6	\$ 4	\$ 7	\$ -	\$ 17



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

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

Smart Meter Capital Cost and Operational Expense Data

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	
2.2.1 Maintenance								\$ -
2.2.2 Other (please specify)								\$ -
Total Incremental AMRC OM&A Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

2.3 ADVANCED METERING CONTROL COMPUTER (AMCC)

2.3.1 Hardware Maintenance (may include server support, etc.)				1	1	0	0	\$ 2
2.3.2 Software Maintenance (may include maintenance support, etc.)				2	2	1	9	\$ 14
2.3.2 Other (please specify)								\$ -
Total Incremental AMCC OM&A Costs	\$ -	\$ -	\$ -	\$ 3	\$ 2	\$ 2	\$ 9	\$ 16

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				0	0	0	0	\$ 0
2.5.6 Other AMI Expenses (please specify)				1	0	1	0	\$ 2
Total Other AMI OM&A Costs Related to Minimum Functionality	\$ -	\$ -	\$ -	\$ 1	\$ 0	\$ 1	\$ -	\$ 2
TOTAL OM&A COSTS RELATED TO MINIMUM FUNCTIONALITY	\$ -	\$ -	\$ -	\$ 9	\$ 7	\$ 9	\$ 9	\$ 34

2.6 OM&A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY

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

2.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06								\$ -
2.6.2 Costs for deployment of smart meters to customers other than residential and small general service								\$ -
2.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDMR, etc.				0	0	0	0	\$ -
Total OM&A Costs Beyond Minimum Functionality	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Smart Meter OM&A Costs	\$ -	\$ -	\$ -	\$ 9	\$ 7	\$ 9	\$ 9	\$ 34

3 Aggregate Smart Meter Costs by Category

3.1	Capital																
3.1.1	Smart Meter	\$	-	\$	-	\$	-	\$	2,768	\$	-	\$	-	\$	-	\$	2,768
3.1.2	Computer Hardware	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
3.1.3	Computer Software	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
3.1.4	Tools & Equipment	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
3.1.5	Other Equipment	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
3.1.6	Applications Software	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
3.1.7	Total Capital Costs	\$	-	\$	-	\$	-	\$	2,768	\$	-	\$	-	\$	-	\$	2,768
3.2	OM&A Costs																
3.2.1	Total OM&A Costs	\$	-	\$	-	\$	-	\$	9	\$	7	\$	9	\$	9	\$	34



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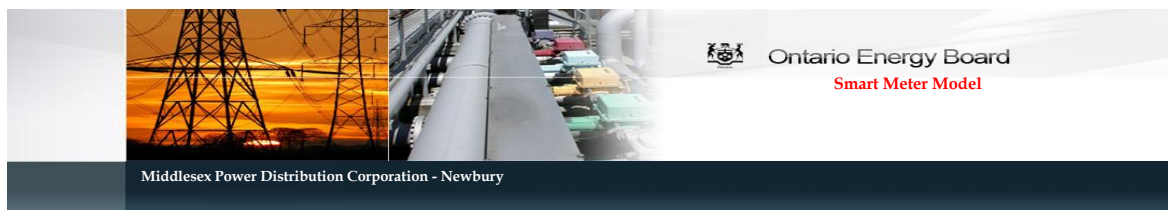
	2006	2007	2008	2009	2010	2011	2012 and later
Cost of Capital							
Capital Structure¹							
Deemed Short-term Debt Capitalization							
Deemed Long-term Debt Capitalization	50.0%	50.0%	53.3%	56.7%	60.0%	60.0%	60.0%
Deemed Equity Capitalization	50.0%	50.0%	46.7%	43.3%	40.0%	40.0%	40.0%
Preferred Shares	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters							
Deemed Short-term Debt Rate							
Long-term Debt Rate (actual/embedded/deemed) ²	7.25%	7.25%	7.25%	7.25%	7.25%	7.25%	7.25%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.00%	9.00%	9.00%
Return on Preferred Shares							
WACC	8.13%	8.13%	8.07%	8.01%	7.95%	7.95%	7.95%
Working Capital Allowance							
Working Capital Allowance Rate (% of the sum of Cost of Power + controllable expenses)	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
Taxes/PILs							
Aggregate Corporate Income Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Capital Tax (until July 1st, 2010)	0.30%	0.225%	0.225%	0.225%	0.075%	0.00%	0.00%
Depreciation Rates (expressed as expected useful life in years)							
Smart Meters - years	15	15	15	15	15	15	15
- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years	5	5	5	5	5	5	5
- rate (%)	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years	3	3	3	3	3	3	3
- rate (%)	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%	33.33%
Tools & Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Other Equipment - years	10	10	10	10	10	10	10
- rate (%)	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
CCA Rates							
Smart Meters - CCA Class	47	47	47	47	47	47	47
Smart Meters - CCA Rate	8%	8%	8%	8%	8%	8%	8%
Computer Equipment - CCA Class	45	50	50	50	50	50	50
Computer Equipment - CCA Rate	45%	55%	55%	55%	55%	55%	55%
General Equipment - CCA Class	8	8	8	8	8	8	8
General Equipment - CCA Rate	20%	20%	20%	20%	20%	20%	20%
Applications Software - CCA Class	12	12	12	12	12	12	12
Applications Software - CCA Rate	100%	100%	100%	100%	100%	100%	100%

Assumptions

¹ Planned smart meter installations occur evenly throughout the year.

² Fiscal calendar year (January 1 to December 31) used.

³ Amortization is done on a straight line basis and has the "half-year" rule applied.



	2006	2007	2008	2009	2010	2011	2012 and later
Net Fixed Assets - Smart Meters							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ 2,768	\$ 2,768	\$ 2,768
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 2,768	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 2,768	\$ 2,768	\$ 2,768	\$ 2,768
Accumulated Depreciation							
Opening Balance		\$ -	\$ -	\$ -	\$ 92	\$ 277	\$ 461
Amortization expense during year	\$ -	\$ -	\$ -	\$ 92	\$ 185	\$ 185	\$ 185
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 92	\$ 277	\$ 461	\$ 646
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 2,675	\$ 2,491	\$ 2,306
Closing Balance	\$ -	\$ -	\$ -	\$ 2,675	\$ 2,491	\$ 2,306	\$ 2,122
Average Net Book Value	\$ -	\$ -	\$ -	\$ 1,338	\$ 2,583	\$ 2,399	\$ 2,214
Net Fixed Assets - Computer Hardware							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Computer Software (including Applications Software)							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Tools and Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Fixed Assets - Other Equipment							
Gross Book Value							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Accumulated Depreciation							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Book Value							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



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	2006	2007	2008	2009	2010	2011	2012 and Later
Average Net Fixed Asset Values (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 1,338	\$ 2,583	\$ 2,399	\$ 2,214
Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Net Fixed Assets	\$ -	\$ -	\$ -	\$ 1,338	\$ 2,583	\$ 2,399	\$ 2,214
Working Capital							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ -	\$ 9	\$ 7	\$ 9	\$ 9
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ -	\$ 1	\$ 1	\$ 1	\$ 1
Incremental Smart Meter Rate Base	\$ -	\$ -	\$ -	\$ 1,339	\$ 2,584	\$ 2,400	\$ 2,215
Return on Rate Base							
Capital Structure							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 759	\$ 1,550	\$ 1,440	\$ 1,329
Equity	\$ -	\$ -	\$ -	\$ 580	\$ 1,034	\$ 960	\$ 886
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capitalization	\$ -	\$ -	\$ -	\$ 1,339	\$ 2,584	\$ 2,400	\$ 2,215
Return on							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Long Term Debt	\$ -	\$ -	\$ -	\$ 55	\$ 112	\$ 104	\$ 96
Equity	\$ -	\$ -	\$ -	\$ 52	\$ 93	\$ 86	\$ 80
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Return on Capital	\$ -	\$ -	\$ -	\$ 107	\$ 205	\$ 191	\$ 176
Operating Expenses	\$ -	\$ -	\$ -	\$ 9	\$ 7	\$ 9	\$ 9
Amortization Expenses (from Sheet 4)							
Smart Meters	\$ -	\$ -	\$ -	\$ 92	\$ 185	\$ 185	\$ 185
Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Amortization Expense in Year	\$ -	\$ -	\$ -	\$ 92	\$ 185	\$ 185	\$ 185
Incremental Revenue Requirement before Taxes/PILs	\$ -	\$ -	\$ -	\$ 209	\$ 397	\$ 384	\$ 370
Calculation of Taxable Income							
Incremental Operating Expenses	\$ -	\$ -	\$ -	\$ 9	\$ 7	\$ 9	\$ 9
Amortization Expense	\$ -	\$ -	\$ -	\$ 92	\$ 185	\$ 185	\$ 185
Interest Expense	\$ -	\$ -	\$ -	\$ 55	\$ 112	\$ 104	\$ 96
Net Income for Taxes/PILs	\$ -	\$ -	\$ -	\$ 52	\$ 93	\$ 86	\$ 80
Grossed-up Taxes/PILs (from Sheet 7)	\$ -	\$ -	\$ -	\$ 22.63	\$ 31.06	\$ 29.67	\$ 30.03
Revenue Requirement, including Grossed-up Taxes/PILs	\$ -	\$ -	\$ -	\$ 232	\$ 428	\$ 414	\$ 400



For PILs Calculation

UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ 2,656.82	\$ 2,444.28	\$ 2,248.74
Capital Additions	\$ -	\$ -	\$ -	\$ 2,767.52	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ 2,767.52	\$ 2,656.82	\$ 2,444.28	\$ 2,248.74
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ 1,383.76	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ 1,383.76	\$ 2,656.82	\$ 2,444.28	\$ 2,248.74
CCA Rate Class	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%
CCA	\$ -	\$ -	\$ -	\$ 110.70	\$ 212.55	\$ 195.54	\$ 179.90
Closing UCC	\$ -	\$ -	\$ -	\$ 2,656.82	\$ 2,444.28	\$ 2,248.74	\$ 2,068.84

UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	45	50	50	50	50	50	50
CCA Rate	45%	55%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UCC Before Half Year Rule	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Reduced UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA Rate Class	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing UCC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -



PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Audited Actual	2012 and later Forecast
INCOME TAX							
Net Income	\$ -	\$ -	\$ -	\$ 52.18	\$ 93.03	\$ 86.39	\$ 79.75
Amortization	\$ -	\$ -	\$ -	\$ 92.25	\$ 184.50	\$ 184.50	\$ 184.50
CCA - Smart Meters	\$ -	\$ -	\$ -	\$ 110.70	\$ 212.55	\$ 195.54	\$ 179.90
CCA - Computers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA - Applications Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCA - Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Change in taxable income	\$ -	\$ -	\$ -	\$ 33.73	\$ 64.98	\$ 75.35	\$ 84.36
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ -	\$ 11.13	\$ 20.14	\$ 21.29	\$ 22.14
ONTARIO CAPITAL TAX							
Smart Meters	\$ -	\$ -	\$ -	\$ 2,675.27	\$ 2,490.77	\$ 2,306.27	\$ 2,121.77
Computer Hardware	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(Including Application Software)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Rate Base	\$ -	\$ -	\$ -	\$ 2,675.27	\$ 2,490.77	\$ 2,306.27	\$ 2,121.77
Less: Exemption	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ -	\$ 2,675.27	\$ 2,490.77	\$ 2,306.27	\$ 2,121.77
Ontario Capital Tax Rate (from Sheet 3)	0.300%	0.225%	0.225%	0.225%	0.075%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	\$ -	\$ -	\$ -	\$ 6.02	\$ 1.87	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 11.13	\$ 20.14	\$ 21.29	\$ 22.14
Change in OCT	\$ -	\$ -	\$ -	\$ 6.02	\$ 1.87	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 17.15	\$ 22.01	\$ 21.29	\$ 22.14
Gross Up PILs							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ -	\$ 16.61	\$ 29.20	\$ 29.67	\$ 30.03
Change in OCT	\$ -	\$ -	\$ -	\$ 6.02	\$ 1.87	\$ -	\$ -
PILs	\$ -	\$ -	\$ -	\$ 22.63	\$ 31.06	\$ 29.67	\$ 30.03



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Newbury

This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	Funding Adder Revenues	Interest Rate	Interest	Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
2006 Q1			Jan-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	\$ -		0.00%	\$ -	\$ -		
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q1	4.59%	4.72%	May-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ -		4.14%	\$ -	\$ -		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ -		4.59%	\$ -	\$ -		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ -		4.59%	\$ -	\$ -		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ -		4.59%	\$ -	\$ -	\$ -	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ -		4.59%	\$ -	\$ -		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ -		4.59%	\$ -	\$ -		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ -		4.59%	\$ -	\$ -		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ -		5.14%	\$ -	\$ -		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ -	\$ 0.12	5.14%	\$ -	\$ 0.12		\$ 0.25
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ 0.12	\$ 1.00	5.14%	\$ -	\$ 1.12	\$ 1.12	\$ 0.25
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ 1.12	\$ 1.00	5.14%	\$ -	\$ 2.12		\$ 0.25
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ 2.12	\$ 1.00	5.14%	\$ 0.01	\$ 3.13		\$ 0.25
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ 3.12	\$ 1.00	5.14%	\$ 0.01	\$ 4.13		\$ 0.25
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	\$ 4.12	\$ 1.00	4.08%	\$ 0.01	\$ 5.13		\$ 0.25
			May-08	2008	Q2	\$ 5.12	\$ 1.00	4.08%	\$ 0.02	\$ 6.14		\$ 0.25
			Jun-08	2008	Q2	\$ 6.12	\$ 1.00	4.08%	\$ 0.02	\$ 7.14		\$ 0.25
			Jul-08	2008	Q3	\$ 7.12	\$ 1.00	3.35%	\$ 0.02	\$ 8.14		\$ 0.25
			Aug-08	2008	Q3	\$ 8.12	\$ 1.00	3.35%	\$ 0.02	\$ 9.14		\$ 0.25
			Sep-08	2008	Q3	\$ 9.12	\$ 1.00	3.35%	\$ 0.03	\$ 10.15		\$ 0.25
			Oct-08	2008	Q4	\$ 10.12	\$ 1.00	3.35%	\$ 0.03	\$ 11.15		\$ 0.25
			Nov-08	2008	Q4	\$ 11.12	\$ 1.00	3.35%	\$ 0.03	\$ 12.15		\$ 0.25
			Dec-08	2008	Q4	\$ 12.12	\$ 1.00	3.35%	\$ 0.03	\$ 13.15	\$ 12.23	\$ 0.25
			Jan-09	2009	Q1	\$ 13.12	\$ 1.00	2.45%	\$ 0.03	\$ 14.15		\$ 0.25
			Feb-09	2009	Q1	\$ 14.12	\$ 1.00	2.45%	\$ 0.03	\$ 15.15		\$ 0.25
			Mar-09	2009	Q1	\$ 15.12	\$ 1.00	2.45%	\$ 0.03	\$ 16.15		\$ 0.25
			Apr-09	2009	Q2	\$ 16.12	\$ 1.00	1.00%	\$ 0.01	\$ 17.13		\$ 0.25
			May-09	2009	Q2	\$ 17.12	\$ -	1.00%	\$ 0.01	\$ 17.13		\$ 1.00
			Jun-09	2009	Q2	\$ 17.12	\$ 2.00	1.00%	\$ 0.01	\$ 19.13		\$ 1.00
			Jul-09	2009	Q3	\$ 19.12	\$ 4.00	0.55%	\$ 0.01	\$ 23.13		\$ 1.00
			Aug-09	2009	Q3	\$ 23.12	\$ 4.00	0.55%	\$ 0.01	\$ 27.13		\$ 1.00
			Sep-09	2009	Q3	\$ 27.12	\$ 4.00	0.55%	\$ 0.01	\$ 31.13		\$ 1.00
			Oct-09	2009	Q4	\$ 31.12	\$ 4.00	0.55%	\$ 0.01	\$ 35.13		\$ 1.00
			Nov-09	2009	Q4	\$ 35.12	\$ 4.00	0.55%	\$ 0.02	\$ 39.14		\$ 1.00
			Dec-09	2009	Q4	\$ 39.12	\$ 10.33	0.55%	\$ 0.02	\$ 49.47	\$ 36.53	\$ 1.00
			Jan-10	2010	Q1	\$ 49.45	\$ 4.00	0.55%	\$ 0.02	\$ 53.47		\$ 1.00
			Feb-10	2010	Q1	\$ 53.45	\$ 4.00	0.55%	\$ 0.02	\$ 57.47		\$ 1.00
			Mar-10	2010	Q1	\$ 57.45	\$ 4.00	0.55%	\$ 0.03	\$ 61.48		\$ 1.00
			Apr-10	2010	Q2	\$ 61.45	\$ 4.00	0.55%	\$ 0.03	\$ 65.48		\$ 1.00
			May-10	2010	Q2	\$ 65.45	\$ 4.00	0.55%	\$ 0.03	\$ 69.48		\$ 1.00
			Jun-10	2010	Q2	\$ 69.45	\$ 4.00	0.55%	\$ 0.03	\$ 73.48		\$ 1.00
			Jul-10	2010	Q3	\$ 73.45	\$ 4.00	0.89%	\$ 0.05	\$ 77.50		\$ 1.00
			Aug-10	2010	Q3	\$ 77.45	\$ 4.00	0.89%	\$ 0.06	\$ 81.51		\$ 1.00
			Sep-10	2010	Q3	\$ 81.45	\$ 4.00	0.89%	\$ 0.06	\$ 85.51		\$ 1.00
			Oct-10	2010	Q4	\$ 85.45	\$ 4.00	1.20%	\$ 0.09	\$ 89.54		\$ 1.00
			Nov-10	2010	Q4	\$ 89.45	\$ 4.00	1.20%	\$ 0.09	\$ 93.54		\$ 1.00
			Dec-10	2010	Q4	\$ 93.45	\$ 1.67	1.20%	\$ 0.09	\$ 95.21	\$ 46.27	\$ 1.00
			Jan-11	2011	Q1	\$ 95.12	\$ 4.00	1.47%	\$ 0.12	\$ 99.24		\$ 1.00
			Feb-11	2011	Q1	\$ 99.12	\$ 4.00	1.47%	\$ 0.12	\$ 103.24		\$ 1.00
			Mar-11	2011	Q1	\$ 103.12	\$ 4.00	1.47%	\$ 0.13	\$ 107.25		\$ 1.00
			Apr-11	2011	Q2	\$ 107.12	\$ 4.00	1.47%	\$ 0.13	\$ 111.25		\$ 1.00
			May-11	2011	Q2	\$ 111.12	\$ 4.00	1.47%	\$ 0.14	\$ 115.26		\$ 2.50
			Jun-11	2011	Q2	\$ 115.12	\$ 7.00	1.47%	\$ 0.14	\$ 122.26		\$ 2.50
			Jul-11	2011	Q3	\$ 122.12	\$ 10.00	1.47%	\$ 0.15	\$ 132.27		\$ 2.50
			Aug-11	2011	Q3	\$ 132.12	\$ 10.00	1.47%	\$ 0.16	\$ 142.28		\$ 2.50
			Sep-11	2011	Q3	\$ 142.12	\$ 12.50	1.47%	\$ 0.17	\$ 154.79		\$ 2.50
			Oct-11	2011	Q4	\$ 154.62	\$ 12.50	1.47%	\$ 0.19	\$ 167.31		\$ 2.50
			Nov-11	2011	Q4	\$ 167.12	\$ 12.50	1.47%	\$ 0.20	\$ 179.82		\$ 2.50
			Dec-11	2011	Q4	\$ 179.62	\$ 27.65	1.47%	\$ 0.22	\$ 207.49	\$ 114.02	\$ 2.50



This worksheet calculates the funding adder revenues.

Account 1555 - Sub-account Funding Adder Revenues

Interest Rates	Approved Deferral and Variance Accounts	CWIP				Opening Balance (Principal)	Funding Adder Revenues	Interest		Closing Balance	Annual amounts	Board Approved Smart Meter Funding Adder (from Tariff)
			Date	Year	Quarter			Rate	Interest			
			Jan-12	2012	Q1	\$ 207.27	\$ 12.50	1.47%	\$ 0.25	\$ 220.02		\$ 2.50
			Feb-12	2012	Q1	\$ 219.77	\$ 12.50	1.47%	\$ 0.27	\$ 232.54		\$ 2.50
			Mar-12	2012	Q1	\$ 232.27	\$ 12.50	1.47%	\$ 0.28	\$ 245.05		\$ 2.50
			Apr-12	2012	Q2	\$ 244.77	\$ 12.50	1.47%	\$ 0.30	\$ 257.57		\$ 2.50
			May-12	2012	Q2	\$ 257.27	\$ 2.05	1.47%	\$ 0.32	\$ 255.54		
			Jun-12	2012	Q2	\$ 255.22		1.47%	\$ 0.31	\$ 255.53		
			Jul-12	2012	Q3	\$ 255.22		1.47%	\$ 0.31	\$ 255.53		
			Aug-12	2012	Q3	\$ 255.22		1.47%	\$ 0.31	\$ 255.53		
			Sep-12	2012	Q3	\$ 255.22		1.47%	\$ 0.31	\$ 255.53		
			Oct-12	2012	Q4	\$ 255.22		1.47%	\$ 0.31	\$ 255.53		
			Nov-12	2012	Q4	\$ 255.22		1.47%	\$ 0.31	\$ 255.53		
			Dec-12	2012	Q4	\$ 255.22		1.47%	\$ 0.31	\$ 255.53	\$ 51.54	
Total Funding Adder Revenues Collected						\$	255.22		\$ 6.49	\$ 261.71	\$ 261.71	



Middlesex Power Distribution Corporation - Newbury

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

Account 1556 - Sub-accounts Operating Expenses, Amortization Expenses, Carrying Charges

Prescribed Interest Rates	Approved Deferral and Variance Accounts	CWIP	Date	Year	Quarter	Opening Balance (Principal)	OM&A Expenses	Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
2006 Q1	0.00%	0.00%	Jan-06	2006	Q1	\$ -			-	0.00%	-	-
2006 Q2	4.14%	4.68%	Feb-06	2006	Q1	-			-	0.00%	-	-
2006 Q3	4.59%	5.05%	Mar-06	2006	Q1	-			-	0.00%	-	-
2006 Q4	4.59%	4.72%	Apr-06	2006	Q2	-			-	4.14%	-	-
2007 Q1	4.59%	4.72%	May-06	2006	Q2	-			-	4.14%	-	-
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	-			-	4.14%	-	-
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	-			-	4.59%	-	-
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	-			-	4.59%	-	-
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	-			-	4.59%	-	-
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	-			-	4.59%	-	-
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	-			-	4.59%	-	-
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	-			-	4.59%	-	-
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	-			-	4.59%	-	-
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	-			-	4.59%	-	-
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	-			-	4.59%	-	-
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	-			-	4.59%	-	-
2010 Q1	0.55%	4.34%	May-07	2007	Q2	-			-	4.59%	-	-
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	-			-	4.59%	-	-
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	-			-	4.59%	-	-
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	-			-	4.59%	-	-
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	-			-	4.59%	-	-
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	-			-	5.14%	-	-
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	-			-	5.14%	-	-
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	-			-	5.14%	-	-
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	-			-	5.14%	-	-
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	-			-	5.14%	-	-
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	-			-	5.14%	-	-
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	-			-	4.08%	-	-
			May-08	2008	Q2	-			-	4.08%	-	-
			Jun-08	2008	Q2	-			-	4.08%	-	-
			Jul-08	2008	Q3	-			-	3.35%	-	-
			Aug-08	2008	Q3	-			-	3.35%	-	-
			Sep-08	2008	Q3	-			-	3.35%	-	-
			Oct-08	2008	Q4	-			-	3.35%	-	-
			Nov-08	2008	Q4	-			-	3.35%	-	-
			Dec-08	2008	Q4	-			-	3.35%	-	-
			Jan-09	2009	Q1	-			-	2.45%	-	-
			Feb-09	2009	Q1	-			-	2.45%	-	-
			Mar-09	2009	Q1	-			-	2.45%	-	-
			Apr-09	2009	Q2	-			-	1.00%	-	-
			May-09	2009	Q2	-			-	1.00%	-	-
			Jun-09	2009	Q2	-			-	1.00%	-	-
			Jul-09	2009	Q3	-			-	0.55%	-	-
			Aug-09	2009	Q3	-			-	0.55%	-	-
			Sep-09	2009	Q3	-			-	0.55%	-	-
			Oct-09	2009	Q4	-			-	0.55%	-	-
			Nov-09	2009	Q4	-			-	0.55%	-	-
			Dec-09	2009	Q4	-			-	0.55%	-	-
			Jan-10	2010	Q1	-			-	0.55%	-	-
			Feb-10	2010	Q1	-			-	0.55%	-	-
			Mar-10	2010	Q1	-			-	0.55%	-	-
			Apr-10	2010	Q2	-			-	0.55%	-	-
			May-10	2010	Q2	-			-	0.55%	-	-
			Jun-10	2010	Q2	-			-	0.55%	-	-
			Jul-10	2010	Q3	-			-	0.89%	-	-
			Aug-10	2010	Q3	-			-	0.89%	-	-
			Sep-10	2010	Q3	-			-	0.89%	-	-
			Oct-10	2010	Q4	-			-	1.20%	-	-
			Nov-10	2010	Q4	-			-	1.20%	-	-
			Dec-10	2010	Q4	-			-	1.20%	-	-
			Jan-11	2011	Q1	-			-	1.47%	-	-
			Feb-11	2011	Q1	-			-	1.47%	-	-
			Mar-11	2011	Q1	-			-	1.47%	-	-
			Apr-11	2011	Q2	-			-	1.47%	-	-
			May-11	2011	Q2	-			-	1.47%	-	-
			Jun-11	2011	Q2	-			-	1.47%	-	-
			Jul-11	2011	Q3	-			-	1.47%	-	-
			Aug-11	2011	Q3	-			-	1.47%	-	-
			Sep-11	2011	Q3	-			-	1.47%	-	-
			Oct-11	2011	Q4	-			-	1.47%	-	-
			Nov-11	2011	Q4	-			-	1.47%	-	-
			Dec-11	2011	Q4	-			-	1.47%	-	-
			Jan-12	2012	Q1	-			-	1.47%	-	-
			Feb-12	2012	Q1	-			-	1.47%	-	-
			Mar-12	2012	Q1	-			-	1.47%	-	-
			Apr-12	2012	Q2	-			-	1.47%	-	-
			May-12	2012	Q2	-			-	1.47%	-	-
			Jun-12	2012	Q2	-			-	1.47%	-	-
			Jul-12	2012	Q3	-			-	1.47%	-	-
			Aug-12	2012	Q3	-			-	1.47%	-	-
			Sep-12	2012	Q3	-			-	1.47%	-	-
			Oct-12	2012	Q4	-			-	1.47%	-	-
			Nov-12	2012	Q4	-			-	1.47%	-	-
			Dec-12	2012	Q4	-			-	1.47%	-	-
						\$	-	\$	-	\$	-	-



Ontario Energy Board

Smart Meter Model

Middlesex Power Distribution Corporation - Newbury

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

Year	OM&A (from Sheet 5)	Amortization Expense (from Sheet 5)	Cumulative OM&A and Amortization Expense	Average Cumulative OM&A and Amortization Expense	Average Annual Prescribed Interest Rate for Deferral and Variance Accounts (from Sheets 8A and 8B)	Simple Interest on OM&A and Amortization Expenses
2006	\$ -	\$ -	\$ -	\$ -	4.37%	\$ -
2007	\$ -	\$ -	\$ -	\$ -	4.73%	\$ -
2008	\$ -	\$ -	\$ -	\$ -	3.98%	\$ -
2009	\$ 9.40	\$ 92.25	\$ 101.65	\$ 50.83	1.14%	\$ 0.58
2010	\$ 7.09	\$ 184.50	\$ 293.25	\$ 197.45	0.80%	\$ 1.57
2011	\$ 8.91	\$ 184.50	\$ 486.66	\$ 389.95	1.47%	\$ 5.73
2012	\$ 9.03	\$ 184.50	\$ 680.19	\$ 583.42	1.47%	\$ 8.58
Cumulative Interest to 2011						\$ 7.89
Cumulative Interest to 2012						\$ 16.46



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

Check if applicable

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

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

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

	2006	2007	2008	2009	2010	2011	2012 and later	Total
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	\$ -	\$ -	\$ -	\$ 231.51	\$ 428.09	\$ 413.87	\$ 399.68	\$ 1,473.15
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check one of the boxes below)	\$ -	\$ -	\$ -	\$ 0.58	\$ 1.57	\$ 5.73		\$ 7.89
<input type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)								\$ -
<input checked="" type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)	\$ -	\$ -	\$ -	\$ 0.58	\$ 1.57	\$ 5.73		\$ 7.89
SMFA Revenues (from Sheet 8)	\$ -	\$ 1.12	\$ 12.00	\$ 36.33	\$ 45.67	\$ 112.15	\$ 47.95	\$ 255.22
SMFA Interest (from Sheet 8)	\$ -	\$ -	\$ 0.23	\$ 0.20	\$ 0.60	\$ 1.87	\$ 3.59	\$ 6.49
Net Deferred Revenue Requirement	\$ -	\$ 1.12	\$ 12.23	\$ 195.56	\$ 383.40	\$ 305.58	\$ 348.14	\$ 1,219.32
Number of Metered Customers (average for 2012 test year)							5	

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

Years for collection or refunding	1	
Deferred Incremental Revenue Requirement from 2006 to December 31, 2011 plus Interest on OM&A and Amortization	\$ 1,081.36	
SMFA Revenues collected from 2006 to 2012 test year (inclusive) Plus Simple Interest on SMFA Revenues	\$ 261.71	
Net Deferred Revenue Requirement	\$ 819.65	
SMDR November 1, 2012 to October 31, 2013	\$ 13.66	Match
Check: Forecasted SMDR Revenues	\$ 819.60	

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

Incremental Revenue Requirement for 2012	\$ 399.68	
SMIRR	\$ 6.66	Match
Check: Forecasted SMIRR Revenues	\$ 399.60	

Attachment L
Draft Tariff of Rates and Charges
Chatham-Kent Rate Zone

Entegrus Powerlines Inc.
(formerly Chatham-Kent Hydro Inc.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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EB-2011-0163/EB-2012-0097/EB-2012-0289

RESIDENTIAL SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less and includes:

- 1) All services supplied to single-family dwelling units for domestic or household purposes,
- 2) All multi-unit residential establishments such as apartments of 6 or less units.
- 3) If a service supplies a combination of residential and commercial load and wiring does not permit separate metering, the classification of this customer will be determined individually by the distributor.

Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	18.30
Smart Meter Disposition Rider (2012) – effective until October 31, 2013	\$	0.51
Smart Meter Incremental Revenue Requirement Rider (2012) – effective until next cost of service	\$	0.28
Distribution Volumetric Rate	\$/kWh	0.0085
Low Voltage Service Rate	\$/kWh	0.0003
Rate Rider for Tax Change – effective until April 30, 2013	\$/kWh	(0.0004)
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kWh	(0.0010)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kWh	0.0007
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0064
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0047

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
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EB-2011-0163/EB-2012-0097/EB-2012-0289

GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION

This classification applies to a non residential account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and includes multi-unit residential establishments such as apartment buildings supplied through one service (bulk-metered). Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	33.59
Smart Meter Disposition Rider (2012) – effective until April 30, 2016	\$	3.01
Smart Meter Incremental Revenue Requirement Rider (2012) – effective until next cost of service	\$	5.60
Distribution Volumetric Rate	\$/kWh	0.0113
Low Voltage Service Rate	\$/kWh	0.0003
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery (2012) – effective until April 30, 2013	\$/kWh	0.0002
Rate Rider for Tax Change – effective until April 30, 2013	\$/kWh	(0.0003)
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kWh	(0.0010)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kWh	0.0004
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0057
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0042

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
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EB-2011-0163/EB-2012-0097/EB-2012-0289

GENERAL SERVICE 50 to 999 kW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 1,000 kW. Note that for the application of the Retail Transmission Rate – Network Service Rate and the Retail Transmission Rate – Line and Transformation Connection Service Rate the following sub-classifications apply:

General Service 50 to 999 kW non-interval metered

General Service 50 to 999 kW interval metered

Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	118.44
Smart Meter Disposition Rider (2012) – effective until October 31, 2013	\$	19.46
Smart Meter Incremental Revenue Requirement Rider – effective until next cost of service	\$	11.31
Distribution Volumetric Rate	\$/kW	3.3577
Low Voltage Service Rate	\$/kW	0.1295
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery (2012) – effective until April 30, 2013	\$/kW	0.0104
Rate Rider for Tax Change – effective until April 30, 2013	\$/kW	(0.0437)
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	(0.3991)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kW	0.0622
Retail Transmission Rate – Network Service Rate	\$/kW	2.3851
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.6789
Retail Transmission Rate – Network Service Rate – Interval Metered	\$/kW	2.5293
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	\$/kW	1.8380

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
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TARIFF OF RATES AND CHARGES
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EB-2011-0163/EB-2012-0097/EB-2012-0289

GENERAL SERVICE INTERMEDIATE 1,000 to 4,999 kW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 1,000 kW but less than 5,000 kW. This classification includes the former Time-of-Use Chatham classification customers, the former Large Use classification customers and the former General Service > 50 kW classification customers with loads between 1,000 and 4,999 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	96.16
Distribution Volumetric Rate	\$/kW	4.5600
Low Voltage Service Rate	\$/kW	0.1416
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery (2012) – effective until April 30, 2013	\$/kW	0.0114
Rate Rider for Tax Change – effective until April 30, 2013	\$/kW	(0.0566)
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	(0.3798)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kW	0.1299
Retail Transmission Rate – Network Service Rate	\$/kW	2.5415
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.8388

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
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INTERMEDIATE WITH SELF GENERATION SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	1,335.67
Distribution Volumetric Rate	\$/kW	3.3699
Low Voltage Service Rate	\$/kW	0.1416
Rate Rider for Tax Change – effective until April 30, 2013	\$/kW	(0.0345)
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	(0.3830)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kW	0.0577
Retail Transmission Rate – Network Service Rate	\$/kW	2.5415
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.8388

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
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EB-2011-0163/EB-2012-0097/EB-2012-0289

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/ documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	\$	10.66
Distribution Volumetric Rate	\$/kWh	0.0008
Low Voltage Service Rate	\$/kWh	0.0003
Rate Rider for Tax Change – effective until April 30, 2013	\$/kWh	(0.0002)
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kWh	(0.0010)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kW	0.0003
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0057
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0042

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
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STANDBY POWER SERVICE CLASSIFICATION

This classification refers to an account that has Load Displacement Generation and requires the distributor to provide back-up service. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

MONTHLY RATES AND CHARGES – APPROVED ON AN INTERIM BASIS

Standby Charge – for a month where standby power is not provided. The charge is applied to the contracted amount (e.g. nameplate rating of generation facility).

\$/kW 1.6906

Entegrus Powerlines Inc.
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EB-2011-0163/EB-2012-0097/EB-2012-0289

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	\$	8.40
Distribution Volumetric Rate	\$/kW	0.5963
Low Voltage Service Rate	\$/kW	0.0924
Rate Rider for Tax Change – effective until April 30, 2013	\$/kW	(0.2880)
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	(0.3340)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kW	0.3563
Retail Transmission Rate – Network Service Rate	\$/kW	1.8118
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3236

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
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EB-2011-0163/EB-2012-0097/EB-2012-0289

STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	\$	1.67
Distribution Volumetric Rate	\$/kW	1.2398
Low Voltage Service Rate	\$/kW	0.0427
Rate Rider for Tax Change – effective until April 30, 2013	\$/kW	(0.1272)
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	(0.3254)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kW	0.1334
Retail Transmission Rate – Network Service Rate	\$/kW	1.7987
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.2970

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
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EB-2011-0163/EB-2012-0097/EB-2012-0289

microFIT GENERATOR SERVICE CLASSIFICATION

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

APPLICATION

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	5.25
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ALLOWANCES

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

SPECIFIC SERVICE CHARGES

APPLICATION

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

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

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

Customer Administration		
Arrears certificate	\$	15.00
Statement of Account	\$	15.00
Easement letter	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Returned cheque charge (plus bank charges)	\$	15.00
Account set up charge/change of occupancy charge	\$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	30.00
Non-Payment of Account		
Late Payment – per month	%	1.50
Late Payment – per annum	%	19.56
Disconnect/Reconnect Charge – At Meter During Regular Hours	\$	65.00
Temporary service install & remove – overhead – no transformer	\$	500.00
Temporary service install & remove – overhead – with transformer	\$	1,000.00
Specific charge for access to the power poles – per pole/year	\$	22.35
Switching for company maintenance – Charge based on Time and Materials	\$	Time and Materials

Entegrus Powerlines Inc.

(formerly Chatham-Kent Hydro Inc.)

TARIFF OF RATES AND CHARGES

Effective and Implementation Date November 1, 2012

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

EB-2011-0163/EB-2012-0097/EB-2012-0289

RETAIL SERVICE CHARGES (if applicable)

APPLICATION

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

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

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

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

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

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

LOSS FACTORS

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

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0428
Total Loss Factor – Secondary Metered Customer > 5,000 kW	1.0430
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0324
Total Loss Factor – Primary Metered Customer > 5,000 kW	1.0141

Entegrus Powerlines Inc.

SM Final Disposition – Draft Rate Order

Board File No.: EB-2012-0289

Date Filed: November 2, 2012

Attachment M
Draft Tariff of Rates and Charges
Strathroy, Mt Brydges & Parkhill Rate Zone

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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EB-2011-0148/EB-2012-0098/EB-2012-0289

Excluding the Villages of Dutton and Newbury Service Areas

RESIDENTIAL SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less and includes:

All services supplied to single-family dwelling units for domestic or household purposes,

All multi-unit residential establishments such as apartments of 6 or less units.

If a service supplies a combination of residential and commercial load and wiring does not permit separate metering, the classification of this customer will be determined individually by the distributor. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	13.91
Smart Meter Disposition Rider 2 – effective until next cost of service application	\$	1.23
Smart Meter Disposition Rider 3 – effective until next cost of service application	\$	0.77
Smart Meter Disposition Rider (2012) – effective until October 31, 2013	\$	(0.69)
Smart Meter Incremental Revenue Requirement Rider (2012) – effective until next cost of service	\$	0.38
Distribution Volumetric Rate	\$/kWh	0.0141
Low Voltage Service Rate	\$/kWh	0.0003
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kWh	(0.0004)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kWh	(0.0045)
Rate Rider for Tax Change – effective until April 30, 2013	\$/kWh	(0.0002)
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0069
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0052

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
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EB-2011-0148/EB-2012-0098/EB-2012-0289

Excluding the Villages of Dutton and Newbury Service Areas

GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION

This classification applies to a non residential account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and includes multi-unit residential establishments such as apartment buildings supplied through one service (bulk-metered). Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	18.38
Smart Meter Disposition Rider 2 – effective until next cost of service application	\$	1.23
Smart Meter Disposition Rider 3 – effective until next cost of service application	\$	0.77
Smart Meter Disposition Rider 2012 – effective until April 30, 2016	\$	3.35
Smart Meter Incremental Revenue Requirement Rider 2012 – effective until next cost of service	\$	5.35
Distribution Volumetric Rate	\$/kWh	0.0049
Low Voltage Service Rate	\$/kWh	0.0002
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kWh	(0.0004)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery (2012) – effective until April 30, 2013	\$/kWh	0.0001
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kWh	(0.0019)
Rate Rider for Tax Change – effective until April 30, 2013	\$/kWh	(0.0001)
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0063
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0046

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
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EB-2011-0148/EB-2012-0098/EB-2012-0289

Excluding the Villages of Dutton and Newbury Service Areas

GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service. Note that for the application of the Retail Transmission Rate – Network Service Rate and the Retail Transmission Rate – Line and Transformation Connection Service Rate the following sub-classifications apply:

- General Service 50 to 5,000 kW non-interval metered
- General Service 50 to 5,000 kW interval metered

APPLICATION

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	43.91
Smart Meter Disposition Rider 2 – effective until next cost of service application	\$	1.23
Smart Meter Disposition Rider 3 – effective until next cost of service application	\$	0.77
Smart Meter Disposition Rider 2012 – effective until October 31, 2013	\$	14.16
Smart Meter Incremental Revenue Requirement Rider 2012 – effective until next cost of service	\$	12.59
Distribution Volumetric Rate	\$/kW	1.4552
Low Voltage Service Rate	\$/kW	0.1010
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	(0.1734)
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery (2012) – effective until April 30, 2013	\$/kW	0.0002
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kW	(0.1851)
Rate Rider for Tax Change – effective until April 30, 2013	\$/kW	(0.0120)
Retail Transmission Rate – Network Service Rate	\$/kW	2.5204
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.8533
Retail Transmission Rate – Network Service Rate – Interval Metered	\$/kW	2.7981
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	\$/kW	2.0865

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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EB-2011-0148/EB-2012-0098/EB-2012-0289

Excluding the Villages of Dutton and Newbury Service Areas

LARGE USE SERVICE CLASSIFICATION

This classification applies to an account whose average monthly maximum demand used for billing purposes over the most recent 12 consecutive months is equal to or greater than, or is forecast to be equal to or greater than, 5,000 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	3,707.40
Smart Meter Disposition Rider 2 – effective until next cost of service application	\$	1.23
Smart Meter Disposition Rider 3 – effective until next cost of service application	\$	0.77
Distribution Volumetric Rate	\$/kW	0.0546
Low Voltage Service Rate	\$/kW	0.1297
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	(0.2300)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kW	(0.0483)
Rate Rider for Tax Change – effective until April 30, 2013	\$/kW	(0.0061)
Retail Transmission Rate – Network Service Rate – Interval Metered	\$/kW	2.9641
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	\$/kW	2.3234

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
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EB-2011-0148/EB-2012-0098/EB-2012-0289

Excluding the Villages of Dutton and Newbury Service Areas

UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and the consumption is unmetered. Such connections include cable TV power packs, bus shelters, telephone booths, traffic lights, railway crossings, etc. The level of the consumption will be agreed to by the distributor and the customer, based on detailed manufacturer information/documentation with regard to electrical consumption of the unmetered load or periodic monitoring of actual consumption. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	\$	9.20
Distribution Volumetric Rate	\$/kWh	0.0053
Low Voltage Service Rate	\$/kWh	0.0003
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kWh	(0.0004)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kWh	(0.0029)
Rate Rider for Tax Change – effective until April 30, 2013	\$/kWh	(0.0002)
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0063
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0046

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
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EB-2011-0148/EB-2012-0098/EB-2012-0289

Excluding the Villages of Dutton and Newbury Service Areas

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	\$	0.18
Distribution Volumetric Rate	\$/kW	0.9985
Low Voltage Service Rate	\$/kW	0.0815
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	(0.1602)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kW	(0.3366)
Rate Rider for Tax Change – effective until April 30, 2013	\$/kW	(0.0133)
Retail Transmission Rate – Network Service Rate	\$/kW	1.9104
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.4627

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
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TARIFF OF RATES AND CHARGES
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EB-2011-0148/EB-2012-0098/EB-2012-0289

Excluding the Villages of Dutton and Newbury Service Areas

STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	\$	0.14
Distribution Volumetric Rate	\$/kW	0.5851
Low Voltage Service Rate	\$/kW	0.0788
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	(0.1502)
Rate Rider for Deferred PILs Variance Account 1562 Disposition – effective until October 31, 2013	\$/kW	(0.1848)
Rate Rider for Tax Change – effective until April 30, 2013	\$/kW	(0.0098)
Retail Transmission Rate – Network Service Rate	\$/kW	1.9005
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.4327

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
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EB-2011-0148/EB-2012-0098/EB-2012-0289

Excluding the Villages of Dutton and Newbury Service Areas

microFIT GENERATOR SERVICE CLASSIFICATION

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

APPLICATION

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

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	5.25
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Excluding the Villages of Dutton and Newbury Service Areas

ALLOWANCES

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

SPECIFIC SERVICE CHARGES

APPLICATION

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

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Customer Administration		
Arrears certificate	\$	15.00
Easement letter	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Returned cheque (plus bank charges)	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	30.00
Non-Payment of Account		
Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Disconnect/Reconnect Charge - At Meter During Regular Hours	\$	65.00
Temporary service install & remove – overhead – no transformer	\$	500.00
Specific charge for access to the power poles – per pole/year	\$	22.35
Switching for company maintenance – Charge based on Time and Materials	\$	

Entegrus Powerlines Inc.
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Excluding the Villages of Dutton and Newbury Service Areas

RETAIL SERVICE CHARGES (if applicable)

APPLICATION

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

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

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

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

LOSS FACTORS

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

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0608
Total Loss Factor – Secondary Metered Customer > 5,000 kW	1.0145
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0501
Total Loss Factor – Primary Metered Customer > 5,000 kW	1.0045

Attachment N
Draft Tariff of Rates and Charges
Dutton Rate Zone

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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

EB-2011-0149/EB-2012-0289

Village of Dutton Service Area

RESIDENTIAL SERVICE CLASSIFICATION

This classification refers to the supply of electrical energy to customers residing in residential dwelling units. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	12.96
Smart Meter Disposition Rider (2012) – effective until April 30, 2016	\$	1.20
Smart Meter Incremental Revenue Requirement Rider (2012) – effective until next cost of service	\$	2.33
Distribution Volumetric Rate	\$/kWh	0.0122
Low Voltage Service Rate	\$/kWh	0.0014
Rate Rider for Global Adjustment Sub-Account Disposition (2011) – effective until April 30, 2015		
Applicable only for Non-RPP Customers	\$/kWh	0.0062
Rate Rider for Deferral/Variance Account Disposition (2011) – effective until April 30, 2015	\$/kWh	0.0065
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kWh	0.0040
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0058
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0048

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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

EB-2011-0149/EB-2012-0289

Village of Dutton Service Area

GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION

This classification applies to a non residential account taking whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	26.47
Smart Meter Disposition Rider (2012) – effective until April 30, 2016	\$	2.21
Smart Meter Incremental Revenue Requirement Rider (2012) – effective until next cost of service	\$	3.84
Distribution Volumetric Rate	\$/kWh	0.0059
Low Voltage Service Rate	\$/kWh	0.0013
Rate Rider for Global Adjustment Sub-Account Disposition (2011) – effective until April 30, 2015		
Applicable only for Non-RPP Customers	\$/kWh	0.0062
Rate Rider for Deferral/Variance Account Disposition (2011) – effective until April 30, 2015	\$/kWh	0.0065
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kWh	0.0040
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0054
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0043

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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EB-2011-0149/EB-2012-0289

Village of Dutton Service Area

SENTINEL LIGHTING SERVICE CLASSIFICATION

This classification refers to accounts that are an unmetered lighting load supplied to a sentinel light. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	0.95
Distribution Volumetric Rate	\$/kW	5.0364
Low Voltage Service Rate	\$/kW	0.4520
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	1.4357
Retail Transmission Rate – Network Service Rate	\$/kW	1.6577
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3421

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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EB-2011-0149/EB-2012-0289

Village of Dutton Service Area

STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Street lighting plant, facilities or equipment owned by the customer are subject to the ESA requirements. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	\$	0.64
Distribution Volumetric Rate	\$/kW	2.9854
Low Voltage Service Rate	\$/kW	0.4344
Rate Rider for Deferral/Variance Account Disposition (2011) – effective until April 30, 2015	\$/kW	2.2139
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	1.3481
Retail Transmission Rate – Network Service Rate	\$/kW	1.6494
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3147

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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

EB-2011-0149/EB-2012-0289

Village of Dutton Service Area

microFIT GENERATOR SERVICE CLASSIFICATION

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

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	5.25
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Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

**This schedule supersedes and replaces all previously
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EB-2011-0149/EB-2012-0289

Village of Dutton Service Area

ALLOWANCES

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

SPECIFIC SERVICE CHARGES

APPLICATION

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

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

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

Customer Administration		
Arrears certificate	\$	15.00
Easement letter	\$	15.00
Credit reference/credit check (plus credit agency costs)	\$	15.00
Returned cheque (plus bank charges)	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	30.00
Non-Payment of Account		
Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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EB-2011-0149/EB-2012-0289

Village of Dutton Service Area

RETAIL SERVICE CHARGES (if applicable)

APPLICATION

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

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

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

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

LOSS FACTORS

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

Total Loss Factor – Secondary Metered Customer < 5,000 kW 1.0662

Attachment O
Draft Tariff of Rates and Charges
Newbury Rate Zone

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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

EB-2011-0150/EB-2012-0289

Village of Newbury Service Area

RESIDENTIAL SERVICE CLASSIFICATION

This classification applies to an account taking electricity at 750 volts or less and includes:

All services supplied to single-family dwelling units for domestic or household purposes,

All multi-unit residential establishments such as apartments of 6 or less units.

If a service supplies a combination of residential and commercial load and wiring does not permit separate metering, the classification of this customer will be determined individually by the distributor. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	12.07
Smart Meter Disposition Rider (2012) – effective until April 30, 2016	\$	0.77
Smart Meter Incremental Revenue Requirement Rider (2012) – effective until next cost of service	\$	2.40
Distribution Volumetric Rate	\$/kWh	0.0121
Low Voltage Service Rate	\$/kWh	0.0043
Rate Rider for Regulatory Asset Recovery – effective until April 30, 2013	\$/kWh	0.0064
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kWh	(0.0068)
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0059
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0035

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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

EB-2011-0150/EB-2012-0289

Village of Newbury Service Area

GENERAL SERVICE LESS THAN 50 kW SERVICE CLASSIFICATION

This classification applies to a non residential account taking electricity at 750 volts or less whose average monthly maximum demand is less than, or is forecast to be less than, 50 kW and includes multi-unit residential establishments such as apartment buildings supplied through one service (bulk-metered). Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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

MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	22.09
Smart Meter Disposition Rider (2012) – effective until April 30, 2016	\$	1.23
Smart Meter Incremental Revenue Requirement Rider (2012) – effective until next cost of service	\$	3.07
Distribution Volumetric Rate	\$/kWh	0.0109
Low Voltage Service Rate	\$/kWh	0.0056
Rate Rider for Regulatory Asset Recovery – effective until April 30, 2013	\$/kWh	0.0054
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kWh	(0.0068)
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0054
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0030

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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EB-2011-0150/EB-2012-0289

Village of Newbury Service Area

GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION

This classification applies to a non residential account whose average monthly maximum demand used for billing purposes is equal to or greater than, or is forecast to be equal to or greater than, 50 kW but less than 5,000 kW. Further servicing details are available in the distributor's Conditions of Service. Note that for the application of the Retail Transmission Rate – Network Service Rate and the Retail Transmission Rate – Line and Transformation Connection Service Rate the following sub-classifications apply:

General Service 50 to 5,000 kW non-interval metered
General Service 50 to 5,000 kW interval metered

APPLICATION

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

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

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

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	269.00
Smart Meter Disposition Rider (2012) – effective until October 31, 2013	\$	13.66
Smart Meter Incremental Revenue Requirement Rider (2012) – effective until next cost of service	\$	6.66
Distribution Volumetric Rate	\$/kW	1.3523
Low Voltage Service Rate	\$/kW	1.7261
Rate Rider for Regulatory Asset Recovery – effective until April 30, 2013	\$/kW	1.1996
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	(2.7929)
Retail Transmission Rate – Network Service Rate	\$/kW	2.2115
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.2058

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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EB-2011-0150/EB-2012-0289

Village of Newbury Service Area

STREET LIGHTING SERVICE CLASSIFICATION

This classification applies to an account for roadway lighting with a Municipality, Regional Municipality, Ministry of Transportation and private roadway lighting, controlled by photo cells. The consumption for these customers will be based on the calculated connected load times the required lighting times established in the approved OEB street lighting load shape template. Further servicing details are available in the distributor's Conditions of Service.

APPLICATION

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

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

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge (per connection)	\$	0.82
Distribution Volumetric Rate	\$/kW	3.4220
Low Voltage Service Rate	\$/kW	1.3353
Rate Rider for Regulatory Asset Recovery – effective until April 30, 2013	\$/kW	1.3610
Rate Rider for Deferral/Variance Account Disposition (2012) – effective until April 30, 2013	\$/kW	(2.2881)
Retail Transmission Rate – Network Service Rate	\$/kW	1.6685
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	0.9328

MONTHLY RATES AND CHARGES – Regulatory Component

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

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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EB-2011-0150/EB-2012-0289

Village of Newbury Service Area

microFIT GENERATOR SERVICE CLASSIFICATION

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

APPLICATION

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

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MONTHLY RATES AND CHARGES – Delivery Component

Service Charge	\$	5.25
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Entegrus Powerlines Inc.
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TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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EB-2011-0150/EB-2012-0289

Village of Newbury Service Area

ALLOWANCES

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

SPECIFIC SERVICE CHARGES

APPLICATION

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

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

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

Customer Administration		
Arrears Certificate	\$	15.00
Statement of Account	\$	15.00
Duplicate invoices for previous billing	\$	15.00
Notification charge	\$	15.00
Account history	\$	15.00
Returned cheque charge (plus bank charges)	\$	15.00
Legal letter charge	\$	15.00
Account set up charge/change of occupancy charge (plus credit agency costs if applicable)	\$	30.00
Special meter reads	\$	30.00
Meter dispute charge plus Measurement Canada fees (if meter found correct)	\$	30.00
Non-Payment of Account		
Late Payment - per month	%	1.50
Late Payment - per annum	%	19.56
Collection of account charge – no disconnection	\$	30.00
Service call – customer-owned equipment	\$	30.00
Service call – after regular hours	\$	165.00
Specific Charge for Access to the Power Poles – per pole/year	\$	22.35

Entegrus Powerlines Inc.
(formerly Middlesex Power Distribution Corp.)
TARIFF OF RATES AND CHARGES
Effective and Implementation Date November 1, 2012

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

EB-2011-0150/EB-2012-0289

Village of Newbury Service Area

RETAIL SERVICE CHARGES (if applicable)

APPLICATION

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

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

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

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

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

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

LOSS FACTORS

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

Total Loss Factor – Secondary Metered Customer < 5,000 kW	1.0580
Total Loss Factor – Primary Metered Customer < 5,000 kW	1.0475