



January 18, 2008

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

Re: EB-2007-0867 Middlesex Power Distribution Corp. Board Staff Interrogatories for 2008 Incentive Rate Mechanism

Dear Ms. Walli:

Please find enclosed the submission of Middlesex Power Distribution Inc. on the Board Staff Interrogatories for the 2008 Incentive Rate Mechanism with revised 2008 IRM Application.

Should there be any questions, please contact me at the number below.

Yours truly,

A handwritten signature in black ink, appearing to read 'Cheryl Decaire', is written over a light blue horizontal line.

Cheryl Decaire
Co-ordinator of Regulatory and Rates
(519) 352-6300 ext 405
Email: cheryldecaire@ckenergy.com

Question #1

A reference is made to the “2007 EDR Smart Meter Rate Calculation Model for the November 1 2007 approved rates”.

- a. Please clarify whether this is the model that was filed with the Board following the Board’s EB-2007-0063 Decision with Reasons and had a submission date of October 19, 2007.
 - b. In the affirmative, please indicate whether the model was filed on a confidential basis as part of the EB-2007-0063 and EB-2007-0553 proceedings. If so, please resubmit the file in Microsoft Excel format with the Board Secretary to make it part of the record in the proceeding, mentioning whether or not you wish the model to remain confidential.
 - c. If they are not the same model, please submit the file you describe as the “2007 EDR Smart Meter Rate Calculation Model of the November 1 2007 approved rates ”in Microsoft Excel format.
-

Answer:

- a. The reference “2007 EDR Smart Meter Rate Calculation Model for the November 1 2007 approved rates” in the 2008 IRM Management Summary does refer to the model that had a submission date of October 19, 2007.
- b. The model referenced in the 2008 IRM Management Summary as “2007 EDR Smart Meter Rate Calculation Model for the November 1 2007 approved rates” is considered to be confidential as part of the EB-2007-0063 and EB-2007-0553 proceeding and the model is to remain confidential.

A confidential copy of the model will be filed to the Board in excel format with the name as “Middlesex_Nov 07 Confidential Smart Meter Adder_20080118.xls”.

- c. As indicated in Question 1a and b the file reference as “2007 EDR Smart Meter Rate Calculation Model for the November 1 2007 approved rates” is the same model.

Please refer to the answer provided in Question #3

Question #2

The \$0.75 rate rider include a recovery of OM&A and a return equivalent to a return on rate base up to December 31, 2007, for the smart meters installed up to April 30, 2007.

Please clarify whether the proposed service charges of \$0.10 and \$0.60 per month per metered customer relate to new smart meter installations between May 1, 2007, and December 31, 2007. Please provide a detailed explanation of the nature of the costs, the reference period, and rationale underpinning those proposed service charges.

Answer:

The proposed smart meter rate rider of \$0.10 is for the cost related to General Service less than 50 kW rate class, this includes the Capital Cost incurred during the Smart Meter installations from year 2006 to September 2007. These costs are within minimum functionality set out in Ontario Regulation 425/06.

The proposed smart meter rate rider of \$0.60 is for the cost related to Residential rate class; this includes the Capital cost that incurred during the Smart Meter installation from May 2007 to December 2007. The continuous operating cost from that May 2007 to December 31, 2007 that would occur in year 2008. The figures in the Smart Meter Adder Model were brought forward from the submission of Tariff sheet approved for November 1, 2007, EB-2006-0063 EB-2007-0553. These costs are within minimum functionality set out in Ontario Regulation 425/06.

Please refer to the answer provided in Question #3.

The chart below demonstrates the Capital Cost between the Residential and General Service

Middlesex Power Distribution Corp.
EB-2007-0867
Board Staff Interrogatories

Capital Cost	Residential	General Service
1.1 Advanced Metering Communication		
1.1.1 Smart Meter	379,710	13,762
1.1.2 Installation Cost	87,257	55,140
1.1.3a Workforce Automation Hardware	2,877	
Total Advanced Metering Communication Device	469,844	68,902
1.2 Advanced Metering regional Collector	N/A	N/A
1.3 Advanced Metering Control Computer		
1.3.1 Computer Hardware	8,630	
1.3.2 Computer Software	4,794	
1.3.3 Computer Software Licence & Installation		
Total Advance Metering Control Computer	13,424	0
1.4 Wide Area Network		
1.4.1 Activation fees	40,272	
Total Wide Area Network	40,272	0
1.5 Other AMI Captial Costs related to Min Functionality		
1.5.1 Customer Equipment		
1.5.2 AMI Interface to CIS		
1.5.3 Professional Fees	4,794	
1.5.4 Integration		
1.5.5 Program Management		
1.5.6 Other AMI Capital		
Total Other AMI Capital Cost retlated to Min Functionality	4,794	0
Total Capital cost	528,334	68,902

Question #3

If Middlesex Power Distribution Corporation (“Middlesex”) is requesting approval of additional smart meter costs beyond those approved up to April 30, 2007 in the Board’s EB-2007-0063 Decision with Reasons, please file the evidence requested in accordance with the minimum filing requirements set out in Procedural Order No. 3 of EB-2007-0063 issued on June 5, 2007. Please also explain why it would be appropriate to do such a cost review at this time, if it is part of your application.

Answer:

Middlesex is requesting an “add” for additional smart meter expenditures as they did in the 2007 IRM proceeding EB-2007-0063.

Middlesex has been recognized in regulations, Ontario Regulation 425/06, to implement smart meters. In the Board proceeding EB-2007-0063 the Middlesex smart meter solution was found to be prudent and meet the minimum functionality specifications as set out in Ontario Regulation. 425/06.

This additional “add” is for costs incurred from May 1, 2007 to December 31, 2007. These costs are for the same products and services that were found to be prudent and meet the minimum functionality as provided in EB-2007-0063. These costs are incurred to continue to meet the commitment to the Provincial Government to install smart meters into 28,000 residential customers by the end of 2007.

Due to the fact that the details of the smart meter program are confidential from the suppliers perspective Middlesex intends to follow the same process as in 2007 for smart meter recovery which is:

- Interim rate recovery through IRM proceeding
- Apply for final recovery of costs incurred for all installed meters at April 30, 2008

Question # 4

Please indicate if the costs associated with the requested \$0.10 and \$0.60 service charges per metered customer per month relate only to meeting the minimum functionality set out in Ontario Regulation 425/06. If any of the costs are associated with functionality exceeding the minimum functionality set out in Ontario Regulation 425/06, please provide a breakdown in accordance with Appendix A to the EB-2007-0063 Decision with Reasons, clearly separating costs associated with the minimum functionality from those relating to functionality that goes beyond the minimum requirements.

Answer:

Middlesex is not applying for costs in addition to the minimum functionality guidelines set out in the Ontario Regulation 425/06.

Please refer to the answer provided in Question #3.

Question # 5

If Middlesex is applying for costs related to functionality that exceeds Ontario Regulation 425/06 in terms of minimum functionality, please justify why any of those costs should be considered for approval by the Board.

Answer:

Middlesex is not applying for costs in addition to the minimum functionality guidelines set out in the Ontario Regulation 425/06.

Please refer to the answer provided in Question #3.

Question # 6

The Microsoft Excel file provided has links to sheets that have been removed from the original file. Please provide the complete Microsoft Excel file.

Ref: Appendix A (Middlesex_APPL_2008IRM_APPENDIXA_20071123.xls)

Answer:

A confidential copy of the model will be filed to the Board in excel format with the name as "Middlesex_2008IRM_Confidential Smart Meter Adder_20080118.xls".

Please refer to the answer provided in Question #3.

Question # 7

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for Residential

You have left blank the entry for the unit of the items in rows 138, 141, 142 and 143. A review of your current 2007 Board approved Tariff of Rates and Charges indicates that the unit for these items should be "\$/kWh".

Answer:

There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), in rows 138, 141, 142 and 143 the unit of measure should be \$/kWh.

Question # 8

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for Residential

You have entered a Retail Transmission Rate – Network Service Rate of 0.055. A review of your current 2007 Board approved Tariff of Rates and Charges show this rate as 0.0055 \$/kWh.

Answer:

There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), in rows Retail Transmission Rate – Network Service Rate the rate should have been 0.0055 \$/kWh.

Question # 9

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for General Service Less than 50 kW

You have left blank the entry for the unit of the items in row 154, 157, 158, and 159. A review of your current 2007 Board approved Tariff of Rates and Charges indicates that the unit for these items should be “\$/kWh”.

Answers:

There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), in rows 154, 157, 158 and 159 the unit of measure should be \$/kWh.

Question # 10

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for General Service 50 to 4,999 kW

- a. A review of your current 2007 Board approved Tariff of Rates and Charges indicates that the “Retail Transmission Rate – Network Service Rate” on row 176 should include the descriptor “- Interval Metered”.
 - b. A review of your current 2007 Board approved Tariff of Rates and Charges indicates that the “Retail Transmission Rate – Line and Transformation Connection Service Rate” on row 177 should include the descriptor – “Interval Metered”.
-

Answer:

- a. There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), in rows Retail Transmission Rate – Network Service Rate the description should have included Interval Metered on line 176.
- b. There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), in rows Retail Transmission Rate – Network Service Rate the description should have included Interval Metered on line 177.

Question # 11

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for General Service 50 to 4,999 kW

You have left blank the entry for the unit of the items in row 170 and in rows 173 to 177, inclusively. A review of your current 2007 Board approved Tariff of Rates Charges indicates that the unit for these items should be “\$/kW”.

Answer:

There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), in rows 170, 173, 174, 175, 176, and 177 the unit of measure should be \$/kW.

Question # 12

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for Large Use

- a. A review of your current 2007 Board approved Tariff of Rates and Charges indicates that the “Retail Transmission Rate – Network Service Rate” on row 192 should include the descriptor “-Interval Metered”.
 - b. A review of your current 2007 Board approved Tariff of Rates and Charges indicates that the “Retail Transmission Rate – Line and Transformation Connection Service Rate” on row 193 should include that descriptor “-Interval Metered”.
-

Answer:

- a. There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), in rows Retail Transmission Rate – Network Service Rate the description should have included Interval Metered on line 192.
- b. There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), the lines that for the Large Use the Retail Transmission Rate – Line and Transformation Connection Service Rate should have additionally stated for Interval Metered.

Question # 13

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for Large Use

You have left blank the entry for the unit of the items in rows 186, 189, 190 and 191. A review of your current 2007 Board approved Tariff of Rates and Charges indicates that the unit for these items should be “\$/kW”.

Answer:

There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), in rows 186, 189, 190, and 191 the unit of measure should be \$/kW.

Question # 14

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for Unmetered Scattered Load

A review of your current 2007 Board approved Tariff of Rates and Charges indicates that the Service Charge should include the descriptor “(per connection)”.

Answer:

There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), the lines that for the Unmetered Scattered Load for the service charge should have read per connection.

Question #15

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for Unmetered Scattered Load

You have left blank the entry for the unit of the items in rows 202, 205, 206, and 207. A review of your current 2007 Board approved Tariff of Rates and Charges indicates that the unit for these items should be “\$/kWh”.

Answer:

There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), in rows 202, 205, 206, and 207 the unit of measure should be \$/kWh.

Question # 16

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for Sentinel Lighting

A review of your current 2007 Board approved Tariff of Rtes and Charges indicates that the Service Charge should include the descriptor “(per connection)”.

Answer:

There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), the lines that for the Sentinel Lighting for the service charge should have read per connection.

Question # 17

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for Sentinel Lighting

You have left blank the entry for the units of the items in rows 218, 221, 222, and 223. A review of your current 2007 Board approved Tariff of Rates and Charges indicates that the unit for these items should be “\$/kW”.

Answer:

There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), in rows 218, 221, 222, and 223 the unit of measure should be \$/kW.

Question # 18

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for Street Lighting

A review of your current 2007 Board approved Tariff of Rates and Charges indicates that the Service Charge should include the descriptor “(per connection)”.

Answer:

There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), the lines that for the Street light for the service charge should have read per connection.

Question # 19:

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for Street Lighting

You have left blank the entry for the unit of the items in rows 234, 237, 238, and 239. A review of your current 2007 Board approved Tariff of Rates and Charges indicates that the unit for these items should be “\$/kW”

Answer:

There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), in rows 234, 237, 238, and 239 the unit of measure should be \$/kW.

Question # 20

Ref. 2008 IRM Model, Sheet 3 (2007 Tariff Sheet)

Monthly Rates and Charges for Allowances

A review of your current 2007 Board approved Tariff Rates and Charges indicates that the unit for “Transformer Allowance for Ownership – per kW of billing demand/month” should be “\$/kW”, rather than “\$”.

Answer:

There was an oversight on the entering the information into 2008 IRM Model Sheet 3 (2007 Tariff Sheet), on the line Transformer Allowance for Ownership – per kW of billing demand/month should have a unit of “\$/kW” instead of “\$”.

Question # 21

Ref. 2008 IRM Model, Sheet 4 (2007 Smart Meter Information)

You have entered \$1.93 in cells F17 to F20, inclusively. Please confirm whether this number is the aggregation of the amounts mentioned in the “Smart Meter Adder” section of the Manager’s summary. That is, \$1.23, \$0.60 and \$0.10 per metered customer per month.

Answer:

In the 2008 IRM Model Sheet 4 of the 2007 Smart Meter Information the \$1.93 consists of the following:

Description		Rate
Smart Meter Rider cost in EB -2007-0553,EB-2007-0063 up to April 2007	\$	1.23
Smart Meter Rider cost of additional Residential Smart Meter from May 2007 to December 2007	\$	0.60
Smart Meter Rider cost of Additional General Service Smart Meter from Year 2006 to September 2007	\$	0.10

Question # 22

You have entered \$0.000085/kWh as a conservation and demand management rate rider for the residential rate class. In its decision dated April 20, 2007 (re: EB-2007-0553), the Board stated that “The 2007 recovery of the finding for CDM Programs, which totals \$12,099, will be entirely offset with \$12,099 of the funds already collected in 2006 rates. Therefore, there will be no increase in 2007 rates as a result of the CDM programs.” Of the \$12,099, only \$5,000 was subsequently approved in the EB-2007-0110 Decision with Reasons dated July 31, 2007. Please clarify whether the \$0.000085/kWh conservation and demand management rate rider for the residential rate class was entered in error, confirming that the correct entry should have been, or provide a complete explanation for the discrepancy.

Answer:

Conservation and Demand Management reduction in the IRM Model was done incorrectly updated model is being provided,
“Middlesex_APPL_2008IRMRevised_20080118.xls”



Ontario Energy Board

2008 INCENTIVE RATE MECHANISM ADJUSTMENT

Sheet 1 Utility Information Sheet

Legend:

Input Cell

Pull-Down Menu Option

Output Cell

Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.

Name of LDC: Middlesex Power Distribution Corporation

Licence Number: ED-2003-0059

IRM 2008 EB Number:
(if known)

EB-20070867

IRM 2007 EB Number: EB-2007-0553

EDR 2006 RP Number: RP-2005-0020

EDR 2006 EB Number: EB-2005-0351

Date of Submission: 11/01/07

Last Saved Date: 01/18/08 10:37 AM

Model Version: 2.0

Contact Information

Name: Cheryl Decaire

Title: Coordinatory of Regulatory and Rates

Phone Number: 519-352-6300 ext 405

E-Mail Address: cheryldecaire@ckenergy.com

Please Note: In the event of an inconsistency between this model and any element of the December 20, 2006 "Report of the Board on Cost of Capital and 2nd Generation Incentive Regulation of Ontario's Electricity Distributors", the Report governs.

Comments

Copyright

This IRM adjustment model is protected by copyright and is being made available to you solely for the purpose of preparing or reviewing an IRM adjustment 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 or reviewing an IRM adjustment application, you must ensure that the person understands and agrees to the restrictions noted above.



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 2 - 2007 Rate Classes

Are you changing the descriptions of any of your Service Classifications?

☐ YES

☒ NO

Service Classifications, including descriptions, can be found on your Board Approved 2007 Tariff of Rates and Charges.

Instructions:

(In some instances, rate classifications may differ from service classifications. The following table accounts for those differences.)

Using the pull-down list in column B, choose the classes that match those on your Board-Approved 2007 Tariff of Rates and Charges, are found under sub-heading "Monthly Rates and Charges". (If a Rate Classification needs to be added to the pull-down list, please contact the Board.)

Indicate which Rate Classifications exist using the pull-down menu in column C.

Changes made to the Class names will affect the rest of the model.

Upon completion, press the update button.

LEGEND

INPUT CELLS

PULL-DOWN MENU

OUTPUT CELLS

	Rate Classifications	Currently in Place
1	Residential	Yes
2	General Service Less Than 50 kW	Yes
3	General Service 50 to 4,999 kW	Yes
4	Large Use	Yes
5	Unmetered Scattered Load	Yes
6	Sentinel Lighting	Yes
7	Street Lighting	Yes
8	Rate Class 8	No
9	Rate Class 9	No
10	Rate Class 10	No
11	Rate Class 11	No
12	Rate Class 12	No
13	Rate Class 13	No
14	Rate Class 14	No
15	Rate Class 15	No
16	Rate Class 16	No





2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Ontario

Sheet 3 - 2007 Board-Approved Tariff of Rates and Charges



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Ontario

Sheet 3 - 2007 Board-Approved Tariff of Rates and Charges

MONTHLY RATES AND CHARGES

Using the pull-down menu in column H below, indicate whether (Yes) or not (No) the rate riders will be continuing into the 2008-09 rate year

Residential

Service Charge	\$	16.56		
Distribution Volumetric Rate	\$/kWh	0.0149		
Rate Rider 1 (if applicable)				
Rate Rider 2 (if applicable)				
Regulatory Asset Recovery	\$/kWh	0.0022	No	
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0055		
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0049		
Retail Transmission Rate – Network Service Rate (if applicable)	\$/kWh			
Retail Transmission Rate – Line and Transformation Connection Service Rate (if applicable)	\$/kWh			
Retail Transmission Rate – Network Service Rate (if applicable)	\$/kWh			
Retail Transmission Rate – Line and Transformation Connection Service Rate (if applicable)	\$/kWh			
Wholesale Market Service Rate	\$/kWh	0.0052		
Rural Rate Protection Charge	\$/kWh	0.0010		
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25		

General Service Less Than 50 kW

Service Charge	\$	21.21		
Distribution Volumetric Rate	\$/kWh	0.0052		
Rate Rider 1 (if applicable)				
Rate Rider 2 (if applicable)				
Regulatory Asset Recovery	\$/kWh	0.0015	No	
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0050		
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0044		
Retail Transmission Rate – Network Service Rate (if applicable)	\$/kWh			
Retail Transmission Rate – Line and Transformation Connection Service Rate (if applicable)	\$/kWh			
Retail Transmission Rate – Network Service Rate (if applicable)	\$/kWh			
Retail Transmission Rate – Line and Transformation Connection Service Rate (if applicable)	\$/kWh			
Wholesale Market Service Rate	\$/kWh	0.0052		
Rural Rate Protection Charge	\$/kWh	0.0010		
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25		



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 3 - 2007 Board-Approved Tariff of Rates and Charges

General Service 50 to 4,999 kW

Service Charge	\$	47.75	
Distribution Volumetric Rate	\$/kW	1.6185	
Rate Rider 1 (if applicable)			
Rate Rider 2 (if applicable)			
Regulatory Asset Recovery	\$/kW	0.3362	No
Retail Transmission Rate – Network Service Rate	\$/kW	2.0299	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.7412	
Retail Transmission Rate – Network Service Rate - Interval Metered	\$/kW	2.2535	
Retail Transmission Rate – Line and Transformation Connection Service Rate - Interval Metered	\$/kW	1.9603	
Retail Transmission Rate – Network Service Rate (if applicable)	\$/kW		
Retail Transmission Rate – Line and Transformation Connection Service Rate (if applicable)	\$/kW		
Wholesale Market Service Rate	\$/kWh	0.0052	
Rural Rate Protection Charge	\$/kWh	0.0010	
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25	

Large Use

Service Charge	\$	3,856.78	
Distribution Volumetric Rate	\$/kW	0.1922	
Rate Rider 1 (if applicable)			
Rate Rider 2 (if applicable)			
Regulatory Asset Recovery	\$/kW	(0.1780)	No
Retail Transmission Rate – Network Service Rate	\$/kW	2.3871	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	2.1828	
Retail Transmission Rate – Network Service Rate - Interval Metered	\$/kW		
Retail Transmission Rate – Line and Transformation Connection Service Rate - Interval Metered	\$/kW		
Retail Transmission Rate – Network Service Rate (if applicable)	\$/kW		
Retail Transmission Rate – Line and Transformation Connection Service Rate (if applicable)	\$/kW		
Wholesale Market Service Rate	\$/kWh	0.0052	
Rural Rate Protection Charge	\$/kWh	0.0010	
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25	

Unmetered Scattered Load

Service Charge (per connection)	\$	9.56	
Distribution Volumetric Rate	\$/kWh	0.0057	
Rate Rider 1 (if applicable)			
Rate Rider 2 (if applicable)			
Regulatory Asset Recovery	\$/kWh	0.0062	No
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0050	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0044	
Retail Transmission Rate – Network Service Rate (if applicable)	\$/kWh		
Retail Transmission Rate – Line and Transformation Connection Service Rate (if applicable)	\$/kWh		
Retail Transmission Rate – Network Service Rate (if applicable)	\$/kWh		
Retail Transmission Rate – Line and Transformation Connection Service Rate (if applicable)	\$/kWh		
Wholesale Market Service Rate	\$/kWh	0.0052	
Rural Rate Protection Charge	\$/kWh	0.0010	
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25	



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 3 - 2007 Board-Approved Tariff of Rates and Charges

Sentinel Lighting

Service Charge (per connection)	\$	0.19	
Distribution Volumetric Rate	\$/kW	1.1233	
Rate Rider 1 (if applicable)			
Rate Rider 2 (if applicable)			
Regulatory Asset Recovery	\$/kW	0.0062	No
Retail Transmission Rate – Network Service Rate	\$/kW	1.5386	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3742	
Retail Transmission Rate – Network Service Rate (if applicable)	\$/kW		
Retail Transmission Rate – Line and Transformation Connection Service Rate (if applicable)	\$/kW		
Retail Transmission Rate – Network Service Rate (if applicable)	\$/kW		
Retail Transmission Rate – Line and Transformation Connection Service Rate (if applicable)	\$/kW		
Wholesale Market Service Rate	\$/kWh	0.0052	
Rural Rate Protection Charge	\$/kWh	0.0010	
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25	

Street Lighting

Service Charge (per connection)	\$	0.15	
Distribution Volumetric Rate	\$/kW	0.6906	
Rate Rider 1 (if applicable)			
Rate Rider 2 (if applicable)			
Regulatory Asset Recovery	\$/kW	0.1187	No
Retail Transmission Rate – Network Service Rate	\$/kW	1.5306	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3461	
Retail Transmission Rate – Network Service Rate (if applicable)	\$/kW		
Retail Transmission Rate – Line and Transformation Connection Service Rate (if applicable)	\$/kW		
Retail Transmission Rate – Network Service Rate (if applicable)	\$/kW		
Retail Transmission Rate – Line and Transformation Connection Service Rate (if applicable)	\$/kW		
Wholesale Market Service Rate	\$/kWh	0.0052	
Rural Rate Protection Charge	\$/kWh	0.0010	
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25	

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 3 - 2007 Board-Approved Tariff of Rates and Charges

Customer Administration

[illegible][illegible][illegible]

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)
	\$/kW	
	\$/kW	

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



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Ontario

Sheet 3 - 2007 Board-Approved Tariff of Rates and Charges



2008 INCENTIVE RATE MECHANISM ADJUSTMENT

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 4 - Smart Meter Information

The smart meter plan rate adder is a monthly service charge for metered customers equivalent to an amount of \$0.30 per month per residential customer for utilities that do not have a plan. A different amount applied to utilities who had a smart meter plan that was modified in accordance with the Decision with Reasons RP-2005-0020 / EB-2005-0529

Please identify the customer classes and sub-classes that the smart meter funding incremental adjustment applies to by inserting the smart meter rate adder into column D. For most utilities, the rate adder can be located in the Board-approved 2007 IRM model. Clicking the cursor on the Residential cell should show the formula for the monthly service charge including the smart meter adder. The adder is the same for all metered classes and sub-classes of a distributor.

Leave column F blank, and the model will by default use the existing rate adder in the following calculations. If a new value of the rate rider is required by a subsequent decision, Board staff will enter the appropriate values in column F.

Smart Meter Rate Adder

Residential
General Service Less Than 50 kW
General Service 50 to 4,999 kW
Large Use

	2007 IRM	2008 IRM
\$	2.10	\$ 1.93
\$	2.10	\$ 1.93
\$	2.10	\$ 1.93
\$	2.10	\$ 1.93



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 5 - Removal of Smart Meter and CDM

Did the applicant receive Board approval for incremental CDM spending (over and above the 3rd tranche) in 2007?

☒ YES ☐ NO

Class	2007 Monthly Service Charge	2007 Volumetric Rate Charge	Less: 2007 Smart Meter Adder from Monthly Service Charge	Less: 2007 CDM Rate Adder from Monthly Service Charge	Less: 2007 CDM Rate Adder from Volumetric Charge	Adjusted Monthly Service Charge	Adjusted Volumetric Charge	
	\$	kW / kWh	\$	\$	kW / kWh	\$	kW / kWh	
<i>Residential</i>	\$ 16.56	\$ 0.0149	\$ 2.10			\$ 14.46	\$ 0.0149	\$/kWh
<i>General Service Less Than 50 kW</i>	\$ 21.21	\$ 0.0052	\$ 2.10			\$ 19.11	\$ 0.0052	\$/kWh
<i>General Service 50 to 4,999 kW</i>	\$ 47.75	\$ 1.6185	\$ 2.10			\$ 45.65	\$ 1.6185	\$/kW
<i>Large Use</i>	\$ 3,856.78	\$ 0.1922	\$ 2.10			\$ 3,854.68	\$ 0.1922	\$/kW
<i>Unmetered Scattered Load</i>	\$ 9.56	\$ 0.0057	\$ -			\$ 9.56	\$ 0.0057	\$/kWh
<i>Sentinel Lighting</i>	\$ 0.19	\$ 1.1233	\$ -			\$ 0.19	\$ 1.1233	\$/kW
<i>Street Lighting</i>	\$ 0.15	\$ 0.6906	\$ -			\$ 0.15	\$ 0.6906	\$/kW



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 6 - K-Factor Derivation

Capital Structure Transition

Size of Utility (Rate Base)

Year	Small [\$0, \$100M)		Med-Small [\$100M, \$250M)		Med-Large [\$250M, \$1B)		Large >=\$1B	
	Debt	Equity	Debt	Equity	Debt	Equity	Debt	Equity
2007	50.0%	50.0%	55.0%	45.0%	60.0%	40.0%	65.0%	35.0%
2008	53.3%	46.7%	57.5%	42.5%	60.0%	40.0%	62.5%	37.5%
2009	56.7%	43.3%	60.0%	40.0%	60.0%	40.0%	60.0%	40.0%
2010	60.0%	40.0%	60.0%	40.0%	60.0%	40.0%	60.0%	40.0%

Cost of Capital parameters

ROE	A	9.00%	(Board Approved 2006 EDR Model, Sheet 3-2, Cell E32)
Debt Rate	B	7.25%	(Board Approved 2006 EDR Model, Sheet 3-2, Cell C25)
Rate Base	C	\$ 9,430,862	(Board Approved 2006 EDR Model, Sheet 3-1, Cell F21)
Size of Utility	D	Small	

Deemed Capital Structure

	Debt	Equity	
Current	E1 50.0%	50.0%	E2
2008	F1 53.3%	46.7%	F2

Based on C, copies the deemed D/E from row "2007" of the table
Based on C, copies the deemed D/E from row "2008" of the table

Cost of Capital

Current	G	8.125%	= (E1 X B) + (E2 X A)	Weighted Average Cost of capital
2008	H	8.07%	= (F1 X B) + (F2 X A)	

Return on Rate Base

Current	I	\$ 766,257.54	= C X G / 100
2008	J	\$ 760,811.21	= C X H / 100

Distribution Expenses and Revenue Requirement (before PILs)

Distribution Expenses (other than PILs)	K	\$ 2,001,966	(Board Approved 2006 EDR Model, Sheet 4-1, Cell F15)
Base Revenue Requirement	L	\$ 2,630,235	(Board Approved 2006 EDR Model, Sheet 5-5, Cell F27)
Transformer Allowance Credit	M	\$ 118,057	(Board Approved 2006 EDR Model, Sheet 6-3, Cell "Total" in Row R120)

Revenue Requirement (before PILs)

Current	N	\$ 2,768,223.54	= I + K
2008	O	\$ 2,762,777.21	= J + K

Target Net Income (EBIT)

Current	\$ 424,388.79	P1 = I - P2
2008	\$ 396,379.13	Q1 = J - Q2

Interest Expense

Current	\$ 341,868.75	P2 = C X (B X E1 / 100)
2008	\$ 364,432.08	Q2 = C X (B X F1 / 100)

PILs

Tax Rate R 28.14% (Board Approved 2006 PILs Model, Sheet "Test Year PILs, Tax Provision", Cell D14)

Large Corporation Tax Allowance (if applicable) - grossed up	\$ -	S	(Board Approved 2006 PILs Model, Sheet "Test Year PILs, Tax Provision", Cell D31)
OCT (Rate Base less \$10,000,000 X 0.30%)	\$ -	T	(Board Approved 2006 PILs Model, Sheet "Test Year PILs, Tax Provision", Cell D30)
PILs Allowance	\$ 176,269	U	(Board Approved 2006 PILs Model, Sheet "Test Year PILs, Tax Provision", Cell D33)
Taxable Income	Current \$ 450,137	AC	(Board Approved 2006 PILs Model, Sheet "Test Year PILs, Tax Provision", Cell D11)
	2008 \$ 442,255	AD	= AC + (Q1 - P1) * (R / 100)
Federal Tax (grossed up)	Current \$ 176,271	V	= AC * (R / 100) / (1 - R / 100)
	2008 \$ 173,185	W	= AD * (R / 100) / (1 - R / 100)

Base Revenue Requirement Adjustment (including PILs)

Revenue Requirement (less LCT) (LCT is removed as it was removed in from rates in 2007 EDR,

Current	\$ 2,944,494.83	X	= N + V + T
2008	\$ 2,935,961.99	Y	= O + W + T

Base Revenue Requirement (plus transformer allowance credit)

(Transformer allowance credit needs to be added onto revenue requirement for full rate recovery - similar to LCT calculation in 2007 EDR)

Current	\$ 2,748,292.00	Z	= L + M
2008	\$ 2,739,759.16	AA1	= Z + (Y - X)
Difference	\$ - 8,532.84	AA2	= AA1 - Z
K-factor	-0.3%	AB	= AA2 / Z



2008 INCENTIVE RATE MECHANISM ADJUSTMENT

Middlesex Power Distribution Corporation

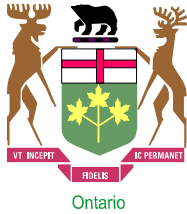
EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 7 - Price Cap Adjustment

Note: No inputs are required for this worksheet.

Price Escalator (GDP-IPI)	Average annual expected Productivity Gain (X)	(GDP-IPI) - X	K-Factor	Total Price Cap Adjustment
1.9%	1.0%	0.9%	-0.3%	0.6%
	Adjusted Monthly Service Charge	Monthly Service Charge with Price Cap Adjustment	Adjusted Volumetric Rate (kW / kWh)	Volumetric Rate with Price Cap Adjustment
Residential	\$ 14.46	\$ 14.55	\$ 0.0149	\$ 0.0150
General Service Less Than 50 kW	\$ 19.11	\$ 19.22	\$ 0.0052	\$ 0.0052
General Service 50 to 4,999 kW	\$ 45.65	\$ 45.92	\$ 1.6185	\$ 1.6282
Large Use	\$ 3,854.68	\$ 3,877.81	\$ 0.1922	\$ 0.1934
Unmetered Scattered Load	\$ 9.56	\$ 9.62	\$ 0.0057	\$ 0.0057
Sentinel Lighting	\$ 0.19	\$ 0.19	\$ 1.1233	\$ 1.1300
Street Lighting	\$ 0.15	\$ 0.15	\$ 0.6906	\$ 0.6947



2008 INCENTIVE RATE MECHANISM ADJUSTMENT

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 8 - Addback of Smart Meter Rate Adder

Note: No inputs are required for this worksheet.

Class	Monthly Service Charge \$	Add: Smart Meter Rate Adder \$	Adjusted Monthly Service Charge \$	Adjusted Volumetric Charge kW / kWh
<i>Residential</i>	\$ 14.55	\$ 1.93	\$ 16.48	0.0150
<i>General Service Less Than 50 kW</i>	\$ 19.22	\$ 1.93	\$ 21.15	0.0052
<i>General Service 50 to 4,999 kW</i>	\$ 45.92	\$ 1.93	\$ 47.85	1.6282
<i>Large Use</i>	\$ 3,877.81	\$ 1.93	\$ 3,879.74	0.1934
<i>Unmetered Scattered Load</i>	\$ 9.62	\$ -	\$ 9.62	0.0057
<i>Sentinel Lighting</i>	\$ 0.19	\$ -	\$ 0.19	1.1300
<i>Street Lighting</i>	\$ 0.15	\$ -	\$ 0.15	0.6947



2008 INCENTIVE RATE MECHANISM ADJUSTMENT

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 9. - Z-Factor Rate Rider Adjustment

Is the Applicant seeking Board approval for other rate adjustments?

☐ YES

☒ NO

Z-Factor rate riders being applied for as part of the 2008 IRM rate adjustments should comply with Section 3.5 and Appendix C of the [Report of the Board on Cost of Capital and 2nd Generation Regulation Mechanism for Ontario's Electricity Distributors](#), issued December 20, 2006 (link http://www.oeb.gov.on.ca/documents/cases/EB-2006-0088/report_of_the_board_201206.pdf). Rate riders applied for should comply with the eligibility requirements. A distributor should also file adequate support for its proposal.

In columns C and D below, insert the Z-Factor rate riders associated with the rate adjustment. Provide a brief explanation about the nature of the rate adjustment.

Class	Monthly Service Charge Rate Rider \$	Volumetric Charge Rate Rider kW / kWh
<i>Residential</i>		
<i>General Service Less Than 50 kW</i>		
<i>General Service 50 to 4,999 kW</i>		
<i>Large Use</i>		
<i>Unmetered Scattered Load</i>		
<i>Sentinel Lighting</i>		
<i>Street Lighting</i>		

Middlesex Power Distribution Corporation

Tariff OF RATES AND CHARGES

Effective May 1, 2008*

(*Except as otherwise noted)

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

EB-2007-0553

FOR OEB STAFF USE ONLY

MONTHLY RATES AND CHARGES

Residential

Service Charge	\$	16.48
Distribution Volumetric Rate	\$/kWh	0.0150
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0055
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0049
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0010
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

General Service Less Than 50 kW

Service Charge	\$	21.15
Distribution Volumetric Rate	\$/kWh	0.0052
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0050
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0044
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0010
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

General Service 50 to 4,999 kW

Service Charge	\$	47.85
Distribution Volumetric Rate	\$/kW	1.6282
Retail Transmission Rate – Network Service Rate	\$/kW	2.0299
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.7412
Retail Transmission Rate – Network Service Rate - Interval Metered	\$/kW	2.2535
Retail Transmission Rate – Line and Transformation Connection Service Rate - Interval Metered	\$/kW	1.9603
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0010
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Large Use

Service Charge	\$	3,879.74
Distribution Volumetric Rate	\$/kW	0.1934
Retail Transmission Rate – Network Service Rate	\$/kW	2.3871
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	2.1828
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0010
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Unmetered Scattered Load

Service Charge (per connection)	\$	9.62
Distribution Volumetric Rate	\$/kWh	0.0057
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0050
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0044
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0010
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Sentinel Lighting

Service Charge (per connection)	\$	0.19
Distribution Volumetric Rate	\$/kW	1.1300
Retail Transmission Rate – Network Service Rate	\$/kW	1.5386
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3742
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0010
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Street Lighting

Service Charge (per connection)	\$	0.15
Distribution Volumetric Rate	\$/kW	0.6947
Retail Transmission Rate – Network Service Rate	\$/kW	1.5306
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	1.3461
Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0010
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

Specific Service Charges

Customer Administration

Arrears certificate	\$	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 (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 at meter - during regular hours	\$	65.00

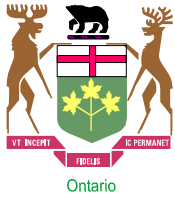
Temporary service install & remove - overhead - no transformer	\$	500.00
Specific Charge for Access to the Power Poles \$/pole/year	\$	22.35

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)

LOSS FACTORS

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



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 11 - Distribution Rate Change Summary

Note: No inputs are required for this worksheet.

Residential

Data	Fixed (\$)	Volumetric \$ per kW / kWh
2007 Rates	\$ 16.56	\$ 0.0149
Less: Smart meters	-\$ 2.10	\$ -
Less: CDM	\$ -	\$ -
Add: GDP-IPi - X	\$ 0.13	\$ 0.0001
Add: K-Factor	\$ (0.04)	-\$ 0.0000
Add: Smart Meters	\$ 1.93	\$ -
Final 2008 Rates	\$ 16.48	\$ 0.0150

General Service Less Than 50 kW

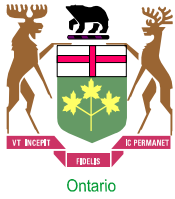
Data	Fixed (\$)	Volumetric \$ per kW / kWh
2007 Rates	\$ 21.21	\$ 0.0052
Less: Smart meters	-\$ 2.10	\$ -
Less: CDM	\$ -	\$ -
Add: GDP-IPi - X	\$ 0.17	\$ 0.0000
Add: K-Factor	\$ (0.06)	-\$ 0.0000
Add: Smart Meters	\$ 1.93	\$ -
Final 2008 Rates	\$ 21.15	\$ 0.0052

General Service 50 to 4,999 kW

Data	Fixed (\$)	Volumetric \$ per kW / kWh
2007 Rates	\$ 47.75	\$ 1.6185
Less: Smart meters	-\$ 2.10	\$ -
Less: CDM	\$ -	\$ -
Add: GDP-IPi - X	\$ 0.41	\$ 0.0146
Add: K-Factor	\$ (0.14)	-\$ 0.0049
Add: Smart Meters	\$ 1.93	\$ -
Final 2008 Rates	\$ 47.85	\$ 1.6282

Large Use

Data	Fixed (\$)	Volumetric \$ per kW / kWh
2007 Rates	\$ 3,856.78	\$ 0.1922
Less: Smart meters	-\$ 2.10	\$ -
Less: CDM	\$ -	\$ -
Add: GDP-IPi - X	\$ 34.69	\$ 0.0017
Add: K-Factor	\$ (11.56)	-\$ 0.0006
Add: Smart Meters	\$ 1.93	\$ -
Final 2008 Rates	\$ 3,879.74	\$ 0.1934



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 11 - Distribution Rate Change Summary

Unmetered Scattered Load

Data	Fixed (\$)	Volumetric \$ per kW / kWh
2007 Rates	\$ 9.56	\$ 0.0057
Less: Smart meters	\$ -	\$ -
Less: CDM	\$ -	\$ -
Add: GDP-IPi - X	\$ 0.09	\$ 0.0001
Add: K-Factor	\$ (0.03)	\$ 0.0000
Add: Smart Meters	\$ -	\$ -
Final 2008 Rates	\$ 9.62	\$ 0.0057

Sentinel Lighting

Data	Fixed (\$)	Volumetric \$ per kW / kWh
2007 Rates	\$ 0.19	\$ 1.1233
Less: Smart meters	\$ -	\$ -
Less: CDM	\$ -	\$ -
Add: GDP-IPi - X	\$ 0.00	\$ 0.0101
Add: K-Factor	\$ (0.00)	\$ 0.0034
Add: Smart Meters	\$ -	\$ -
Final 2008 Rates	\$ 0.19	\$ 1.1300

Street Lighting

Data	Fixed (\$)	Volumetric \$ per kW / kWh
2007 Rates	\$ 0.15	\$ 0.6906
Less: Smart meters	\$ -	\$ -
Less: CDM	\$ -	\$ -
Add: GDP-IPi - X	\$ 0.00	\$ 0.0062
Add: K-Factor	\$ (0.00)	\$ 0.0021
Add: Smart Meters	\$ -	\$ -
Final 2008 Rates	\$ 0.15	\$ 0.6947



Ontario

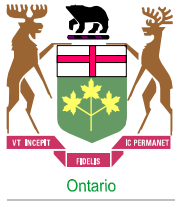
2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 11 - Distribution Rate Change Summary



Ontario

2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 11 - Distribution Rate Change Summary



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 12 - Annualized Bill Impact

Instructions

(Remember, **green cells** are input cells)

1. Enter your desired consumption in both kWh and kW (if needed) into the green cells beneath the class name.
2. The Debt Retirement Charge (DRC) has been set at \$0.07. The figure can be overwritten if your LDC bills a different amount for the DRC.

Regulated Price Plan	Residential	May-07 Threshold	May-07 \$/ kWh	May-08 Threshold	May-08 \$/ kWh
less than or equal to		600	\$ 0.053	600	\$ 0.053
greater than		> 600	\$ 0.062	> 600	\$ 0.062

Regulated Price Plan	Non-Residential	May-07 Threshold	May-07 \$/ kWh	May-08 Threshold	May-08 \$/ kWh
less than or equal to		750	\$ 0.053	750	\$ 0.053
greater than		> 750	\$ 0.062	> 750	\$ 0.062

Residential

Consumption	1,000	kWh	0	kW	Loss Factor 1.0608
-------------	-------	-----	---	----	--------------------

	2007 BILL			2008 BILL			IMPACT		
	Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill
Energy First Tier (kWh)	600	\$ 0.0530	\$ 31.80	600	\$ 0.0530	\$ 31.80	\$0.00	0.0%	25.70%
Energy Second Tier (kWh)	461	\$ 0.0620	\$ 28.57	461	\$ 0.0620	\$ 28.57	\$0.00	0.0%	23.09%
Sub-Total: Energy			\$ 60.37			\$ 60.37	\$0.00	0.0%	48.80%
Monthly Service Charge	1	\$ 16.56	\$ 16.56	1	\$ 16.48	\$ 16.48	(\$0.08)	(0.5)%	13.32%
Distribution (kWh)	1,000	\$ 0.0149	\$ 14.90	1,000	\$ 0.0150	\$ 15.00	\$0.10	0.7%	12.12%
Distribution (kW)	0	\$ -	\$ -	0	\$ -	\$ -	\$0.00	0.0%	0.00%
Regulatory Assets (kWh)	1,000	\$ 0.0022	\$ 2.20	1,000	\$ -	\$ -	(\$2.20)	(100.0)%	0.00%
Rate Riders	1,000	\$ -	\$ -	1,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Monthly Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	1	\$ -	\$ -	\$0.00	0.0%	0.00%
Volumetric Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	1,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Retail Transmission Rate – Network Service Rate	1,061	\$ 0.0055	\$ 5.83	1,061	\$ 0.0055	\$ 5.83	\$0.00	0.0%	4.72%
Retail Transmission Rate – Line and Transformation Connection Service Rate	1,061	\$ 0.0049	\$ 5.20	1,061	\$ 0.0049	\$ 5.20	\$0.00	0.0%	4.20%
Sub-Total: Delivery			\$ 44.69			\$ 42.51	(\$2.18)	(4.9)%	34.36%
Wholesale Market Service Rate	1061	\$ 0.0052	\$ 5.52	1061	\$ 0.0052	\$ 5.52	\$0.00	0.0%	4.46%
Rural Rate Protection Charge	1061	\$ 0.0010	\$ 1.06	1061	\$ 0.0010	\$ 1.06	\$0.00	0.0%	0.86%
Regulated Price Plan – Administration Charge	1	\$ 0.2500	\$ 0.25	1	\$ 0.2500	\$ 0.25	\$0.00	0.0%	0.20%
Sub-Total: Regulatory			\$ 6.83			\$ 6.83	\$0.00	0.0%	5.52%
Debt Retirement Charge (DRC)	1,000	\$ 0.0070	\$ 7.00	1,000	\$ 0.0070	\$ 7.00	\$0.00	0.0%	5.66%
Total Bill before Taxes			\$ 118.89			\$ 116.71	(\$2.18)	(1.8)%	94.34%
GST	\$ 118.89	6.00%	\$ 7.13	\$ 116.71	6.00%	\$ 7.00	(\$0.13)	(1.5)%	5.66%
Total Bill after Taxes			\$ 126.02			\$ 123.71	(\$2.31)	(1.8)%	100.00%

General Service Less Than 50 kW

Consumption	2,000	kWh	0	kW	Loss Factor 1.0608
-------------	-------	-----	---	----	--------------------

	2007 BILL			2008 BILL			IMPACT		
	Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill
Energy First Tier (kWh)	750	\$ 0.0530	\$ 39.75	750	\$ 0.0530	\$ 39.75	\$0.00	0.0%	18.41%
Energy Second Tier (kWh)	1,372	\$ 0.0620	\$ 85.04	1,372	\$ 0.0620	\$ 85.04	\$0.00	0.0%	39.39%
Sub-Total: Energy			\$ 124.79			\$ 124.79	\$0.00	0.0%	57.80%
Monthly Service Charge	1	\$ 21.21	\$ 21.21	1	\$ 21.15	\$ 21.15	(\$0.06)	(0.3)%	9.80%
Distribution (kWh)	2,000	\$ 0.0052	\$ 10.40	2,000	\$ 0.0052	\$ 10.40	\$0.00	0.0%	4.82%
Distribution (kW)	0	\$ -	\$ -	0	\$ -	\$ -	\$0.00	0.0%	0.00%
Regulatory Assets (kWh)	2,000	\$ 0.0015	\$ 3.00	2,000	\$ -	\$ -	(\$3.00)	(100.0)%	0.00%
Rate Riders	2,000	\$ -	\$ -	2,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Monthly Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	1	\$ -	\$ -	\$0.00	0.0%	0.00%
Volumetric Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	2,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Retail Transmission Rate – Network Service Rate	2,122	\$ 0.0050	\$ 10.61	2,122	\$ 0.0050	\$ 10.61	\$0.00	0.0%	4.91%
Retail Transmission Rate – Line and Transformation Connection Service Rate	2,122	\$ 0.0044	\$ 9.34	2,122	\$ 0.0044	\$ 9.34	\$0.00	0.0%	4.32%
Sub-Total: Delivery			\$ 54.55			\$ 51.49	(\$3.06)	(5.6)%	23.85%
Wholesale Market Service Rate	2122	\$ 0.0052	\$ 11.03	2122	\$ 0.0052	\$ 11.03	\$0.00	0.0%	5.11%
Rural Rate Protection Charge	2122	\$ 0.0010	\$ 2.12	2122	\$ 0.0010	\$ 2.12	\$0.00	0.0%	0.98%
Regulated Price Plan – Administration Charge	1	\$ 0.2500	\$ 0.25	1	\$ 0.2500	\$ 0.25	\$0.00	0.0%	0.12%
Sub-Total: Regulatory			\$ 13.40			\$ 13.40	\$0.00	0.0%	6.21%
Debt Retirement Charge (DRC)	2,000	\$ 0.0070	\$ 14.00	2,000	\$ 0.0070	\$ 14.00	\$0.00	0.0%	6.48%
Total Bill before Taxes			\$ 206.75			\$ 203.69	(\$3.06)	(1.5)%	94.34%
GST	\$ 206.75	6.00%	\$ 12.40	\$ 203.69	6.00%	\$ 12.22	(\$0.18)	(1.5)%	5.66%
Total Bill after Taxes			\$ 219.15			\$ 215.91	(\$3.24)	(1.5)%	100.00%



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 12 - Annualized Bill Impact

Instructions

(Remember, **green cells** are input cells)

1. Enter your desired consumption in both kWh and kW (if needed) into the green cells beneath the class name.
2. The Debt Retirement Charge (DRC) has been set at \$0.07. The figure can be overwritten if your LDC bills a different amount for the DRC.

General Service 50 to 4,999 kW

Consumption	15,000 kWh	60 kW	Loss Factor 1.0608
--------------------	-------------------	--------------	---------------------------

	2007 BILL			2008 BILL			IMPACT		
	Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill
Energy First Tier (kWh)	750	\$ 0.0530	\$ 39.75	750	\$ 0.0530	\$ 39.75	\$0.00	0.0%	2.04%
Energy Second Tier (kWh)	15,162	\$ 0.0620	\$ 940.04	15,162	\$ 0.0620	\$ 940.04	\$0.00	0.0%	48.26%
Sub-Total: Energy			\$ 979.79			\$ 979.79	\$0.00	0.0%	50.30%
Monthly Service Charge	1	\$ 47.75	\$ 47.75	1	\$ 47.85	\$ 47.85	\$0.10	0.2%	2.46%
Distribution (kWh)	15,000	\$ -	\$ -	15,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Distribution (kW)	60	\$ 1.6185	\$ 97.11	60	\$ 1.6282	\$ 97.69	\$0.58	0.6%	5.02%
Regulatory Assets (kWh)	60	\$ 0.3362	\$ 20.17	60	\$ -	\$ -	(\$20.17)	(100.0)%	0.00%
Rate Riders	60	\$ -	\$ -	60	\$ -	\$ -	\$0.00	0.0%	0.00%
Monthly Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	1	\$ -	\$ -	\$0.00	0.0%	0.00%
Volumetric Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	60	\$ -	\$ -	\$0.00	0.0%	0.00%
Retail Transmission Rate – Network Service Rate	64	\$ 4.2834	\$ 272.63	64	\$ 4.2834	\$ 272.63	\$0.00	0.0%	14.00%
Retail Transmission Rate – Line and Transformation Connection Service Rate	64	\$ 3.7015	\$ 235.59	64	\$ 3.7015	\$ 235.59	\$0.00	0.0%	12.10%
Sub-Total: Delivery			\$ 673.25			\$ 653.76	(\$19.49)	(2.9)%	33.57%
Wholesale Market Service Rate	15912	\$ 0.0052	\$ 82.74	15912	\$ 0.0052	\$ 82.74	\$0.00	0.0%	4.25%
Rural Rate Protection Charge	15912	\$ 0.0010	\$ 15.91	15912	\$ 0.0010	\$ 15.91	\$0.00	0.0%	0.82%
Regulated Price Plan – Administration Charge	1	\$ 0.2500	\$ 0.25	1	\$ 0.2500	\$ 0.25	\$0.00	0.0%	0.01%
Sub-Total: Regulatory			\$ 98.90			\$ 98.90	\$0.00	0.0%	5.08%
Debt Retirement Charge (DRC)	15,000	\$ 0.0070	\$ 105.00	15,000	\$ 0.0070	\$ 105.00	\$0.00	0.0%	5.39%
Total Bill before Taxes			\$ 1,856.95			\$ 1,837.46	(\$19.49)	(1.0)%	94.34%
GST	\$ 1,856.95	6.00%	\$ 111.42	\$ 1,837.46	6.00%	\$ 110.25	(\$1.17)	(1.0)%	5.66%
Total Bill after Taxes			\$ 1,968.37			\$ 1,947.71	(\$20.66)	(1.0)%	100.00%



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 12 - Annualized Bill Impact

Instructions

(Remember, **green cells** are input cells)

1. Enter your desired consumption in both kWh and kW (if needed) into the green cells beneath the class name.
2. The Debt Retirement Charge (DRC) has been set at \$0.07. The figure can be overwritten if your LDC bills a different amount for the DRC.

Large Use

Consumption	400,000 kWh	1,000 kW	Loss Factor 1.0145						
2007 BILL				2008 BILL			IMPACT		
	Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill
Energy First Tier (kWh)	750	\$ 0.0530	\$ 39.75	750	\$ 0.0530	\$ 39.75	\$0.00	0.0%	0.10%
Energy Second Tier (kWh)	405,050	\$ 0.0620	\$ 25,113.10	405,050	\$ 0.0620	\$ 25,113.10	\$0.00	0.0%	60.47%
Sub-Total: Energy			\$ 25,152.85			\$ 25,152.85	\$0.00	0.0%	60.57%
Monthly Service Charge	1	\$ 3,856.78	\$ 3,856.78	1	\$ 3,879.74	\$ 3,879.74	\$22.96	0.6%	9.34%
Distribution (kWh)	400,000	\$ -	\$ -	400,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Distribution (kW)	1,000	\$ 0.1922	\$ 192.20	1,000	\$ 0.1934	\$ 193.40	\$1.20	0.6%	0.47%
Regulatory Assets (kWh)	1,000	\$ 0.1780	\$ 178.00	1,000	\$ -	\$ -	\$178.00	(100.0)%	0.00%
Rate Riders	1,000	\$ -	\$ -	1,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Monthly Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	1	\$ -	\$ -	\$0.00	0.0%	0.00%
Volumetric Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	1,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Retail Transmission Rate – Network Service Rate	1,015	\$ 2.3871	\$ 2,421.71	1,015	\$ 2.3871	\$ 2,421.71	\$0.00	0.0%	5.83%
Retail Transmission Rate – Line and Transformation Connection Service Rate	1,015	\$ 2.1828	\$ 2,214.45	1,015	\$ 2.1828	\$ 2,214.45	\$0.00	0.0%	5.33%
Sub-Total: Delivery			\$ 8,507.14			\$ 8,709.30	\$202.16	2.4%	20.97%
Wholesale Market Service Rate	405800	\$ 0.0052	\$ 2,110.16	405800	\$ 0.0052	\$ 2,110.16	\$0.00	0.0%	5.08%
Rural Rate Protection Charge	405800	\$ 0.0010	\$ 405.80	405800	\$ 0.0010	\$ 405.80	\$0.00	0.0%	0.98%
Regulated Price Plan – Administration Charge	1	\$ 0.2500	\$ 0.25	1	\$ 0.2500	\$ 0.25	\$0.00	0.0%	0.00%
Sub-Total: Regulatory			\$ 2,516.21			\$ 2,516.21	\$0.00	0.0%	6.06%
Debt Retirement Charge (DRC)	400,000	\$ 0.0070	\$ 2,800.00	400,000	\$ 0.0070	\$ 2,800.00	\$0.00	0.0%	6.74%
Total Bill before Taxes			\$ 38,976.20			\$ 39,178.36	\$202.16	0.5%	94.34%
GST	\$ 38,976.20	6.00%	\$ 2,338.57	\$ 39,178.36	6.00%	\$ 2,350.70	\$12.13	0.5%	5.66%
Total Bill after Taxes			\$ 41,314.78			\$ 41,529.07	\$214.29	0.5%	100.00%

Unmetered Scattered Load

Consumption	15,000	kWh	60	kW	Loss Factor 1.0608				
	2007 BILL			2008 BILL			IMPACT		
	Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill
Energy First Tier (kWh)	750	\$ 0.0530	\$ 39.75	750	\$ 0.0530	\$ 39.75	\$0.00	0.0%	3.14%
Energy Second Tier (kWh)	15,162	\$ 0.0620	\$ 940.04	15,162	\$ 0.0620	\$ 940.04	\$0.00	0.0%	74.26%
Sub-Total: Energy			\$ 979.79			\$ 979.79	\$0.00	0.0%	77.40%
Monthly Service Charge	1	\$ 9.56	\$ 9.56	1	\$ 9.62	\$ 9.62	\$0.06	0.6%	0.76%
Distribution (kWh)	15,000	\$ -	\$ -	15,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Distribution (kW)	60	\$ 0.0057	\$ 0.34	60	\$ 0.0057	\$ 0.34	\$0.00	0.0%	0.03%
Regulatory Assets (kWh)	60	\$ 0.0062	\$ 0.37	60	\$ -	\$ -	(\$0.37)	(100.0)%	0.00%
Rate Riders	60	\$ -	\$ -	60	\$ -	\$ -	\$0.00	0.0%	0.00%
Monthly Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	1	\$ -	\$ -	\$0.00	0.0%	0.00%
Volumetric Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	60	\$ -	\$ -	\$0.00	0.0%	0.00%
Retail Transmission Rate – Network Service Rate	64	\$ 0.0050	\$ 0.32	64	\$ 0.0050	\$ 0.32	\$0.00	0.0%	0.03%
Retail Transmission Rate – Line and Transformation Connection Service Rate	64	\$ 0.0044	\$ 0.28	64	\$ 0.0044	\$ 0.28	\$0.00	0.0%	0.02%
Sub-Total: Delivery			\$ 10.87			\$ 10.56	(\$0.31)	(2.9)%	0.83%
Wholesale Market Service Rate	15912	\$ 0.0052	\$ 82.74	15912	\$ 0.0052	\$ 82.74	\$0.00	0.0%	6.54%
Rural Rate Protection Charge	15912	\$ 0.0010	\$ 15.91	15912	\$ 0.0010	\$ 15.91	\$0.00	0.0%	1.26%
Regulated Price Plan – Administration Charge	1	\$ 0.2500	\$ 0.25	1	\$ 0.2500	\$ 0.25	\$0.00	0.0%	0.02%
Sub-Total: Regulatory			\$ 98.90			\$ 98.90	\$0.00	0.0%	7.81%
Debt Retirement Charge (DRC)	15,000	\$ 0.0070	\$ 105.00	15,000	\$ 0.0070	\$ 105.00	\$0.00	0.0%	8.29%
Total Bill before Taxes			\$ 1,194.57			\$ 1,194.26	(\$0.31)	(0.0)%	94.34%
GST	\$ 1,194.57	6.00%	\$ 71.67	\$ 1,194.26	6.00%	\$ 71.66	(\$0.02)	(0.0)%	5.66%
Total Bill after Taxes			\$ 1,266.24			\$ 1,265.91	(\$0.33)	(0.0)%	100.00%

Sentinel Lighting

Consumption		400,000 kWh	1,000 kW	Loss Factor 1.0608				
2007 BILL			2008 BILL			IMPACT		
Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 12 - Annualized Bill Impact

Instructions

(Remember, **green cells** are input cells)

1. Enter your desired consumption in both kWh and kW (if needed) into the green cells beneath the class name.
2. The Debt Retirement Charge (DRC) has been set at \$0.07. The figure can be overwritten if your LDC bills a different amount for the DRC.

Energy First Tier (kWh)	750	\$ 0.0530	\$ 39.75	750	\$ 0.0530	\$ 39.75	\$0.00	0.0%	0.10%
Energy Second Tier (kWh)	423,570	\$ 0.0620	\$ 26,261.34	423,570	\$ 0.0620	\$ 26,261.34	\$0.00	0.0%	68.91%
Sub-Total: Energy			\$ 26,301.09			\$ 26,301.09	\$0.00	0.0%	69.01%
Monthly Service Charge	1	\$ 0.19	\$ 0.19	1	\$ 0.19	\$ 0.19	\$0.00	0.0%	0.00%
Distribution (kWh)	400,000	\$ -	\$ -	400,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Distribution (kW)	1,000	\$ 1.1233	\$ 1,123.30	1,000	\$ 1.1300	\$ 1,130.00	\$6.70	0.6%	2.97%
Regulatory Assets (kWh)	1,000	\$ 0.0062	\$ 6.20	1,000	\$ -	\$ -	(\$6.20)	(100.0)%	0.00%
Rate Riders	1,000	\$ -	\$ -	1,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Monthly Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	1	\$ -	\$ -	\$0.00	0.0%	0.00%
Volumetric Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	1,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Retail Transmission Rate – Network Service Rate	1,061	\$ 1.5386	\$ 1,632.15	1,061	\$ 1.5386	\$ 1,632.15	\$0.00	0.0%	4.28%
Retail Transmission Rate – Line and Transformation Connection Service Rate	1,061	\$ 1.3742	\$ 1,457.75	1,061	\$ 1.3742	\$ 1,457.75	\$0.00	0.0%	3.83%
Sub-Total: Delivery			\$ 4,219.59			\$ 4,220.09	\$0.50	0.0%	11.07%
Wholesale Market Service Rate	424320	\$ 0.0052	\$ 2,206.46	424320	\$ 0.0052	\$ 2,206.46	\$0.00	0.0%	5.79%
Rural Rate Protection Charge	424320	\$ 0.0010	\$ 424.32	424320	\$ 0.0010	\$ 424.32	\$0.00	0.0%	1.11%
Regulated Price Plan – Administration Charge	1	\$ 0.2500	\$ 0.25	1	\$ 0.2500	\$ 0.25	\$0.00	0.0%	0.00%
Sub-Total: Regulatory			\$ 2,631.03			\$ 2,631.03	\$0.00	0.0%	6.90%
Debt Retirement Charge (DRC)	400,000	\$ 0.0070	\$ 2,800.00	400,000	\$ 0.0070	\$ 2,800.00	\$0.00	0.0%	7.35%
Total Bill before Taxes			\$ 35,951.71			\$ 35,952.21	\$0.50	0.0%	94.34%
GST	\$ 35,951.71	6.00%	\$ 2,157.10	\$ 35,952.21	6.00%	\$ 2,157.13	\$0.03	0.0%	5.66%
Total Bill after Taxes			\$ 38,108.81			\$ 38,109.34	\$0.53	0.0%	100.00%

Street Lighting

Consumption	400,000 kWh	1,000 kW	Loss Factor 1.0608
--------------------	--------------------	-----------------	---------------------------

	2007 BILL			2008 BILL			IMPACT		
	Volume	RATE \$	CHARGE \$	Volume	RATE \$	CHARGE \$	\$	%	% of Total Bill
Energy First Tier (kWh)	750	\$ 0.0530	\$ 39.75	750	\$ 0.0530	\$ 39.75	\$0.00	0.0%	0.11%
Energy Second Tier (kWh)	423,570	\$ 0.0620	\$ 26,261.34	423,570	\$ 0.0620	\$ 26,261.34	\$0.00	0.0%	69.83%
Sub-Total: Energy			\$ 26,301.09			\$ 26,301.09	\$0.00	0.0%	69.94%
Monthly Service Charge	1	\$ 0.15	\$ 0.15	1	\$ 0.15	\$ 0.15	\$0.00	0.0%	0.00%
Distribution (kWh)	400,000	\$ -	\$ -	400,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Distribution (kW)	1,000	\$ 0.6906	\$ 690.60	1,000	\$ 0.6947	\$ 694.70	\$4.10	0.6%	1.85%
Regulatory Assets (kWh)	1,000	\$ 0.1187	\$ 118.70	1,000	\$ -	\$ -	(\$118.70)	(100.0)%	0.00%
Rate Riders	1,000	\$ -	\$ -	1,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Monthly Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	1	\$ -	\$ -	\$0.00	0.0%	0.00%
Volumetric Rate Rider Adjustment (Sheet 9)	N/A	N/A	N/A	1,000	\$ -	\$ -	\$0.00	0.0%	0.00%
Retail Transmission Rate – Network Service Rate	1,061	\$ 1.5306	\$ 1,623.66	1,061	\$ 1.5306	\$ 1,623.66	\$0.00	0.0%	4.32%
Retail Transmission Rate – Line and Transformation Connection Service Rate	1,061	\$ 1.3461	\$ 1,427.94	1,061	\$ 1.3461	\$ 1,427.94	\$0.00	0.0%	3.80%
Sub-Total: Delivery			\$ 3,861.05			\$ 3,746.45	(\$114.60)	(3.0)%	9.96%
Wholesale Market Service Rate	424320	\$ 0.0052	\$ 2,206.46	424320	\$ 0.0052	\$ 2,206.46	\$0.00	0.0%	5.87%
Rural Rate Protection Charge	424320	\$ 0.0010	\$ 424.32	424320	\$ 0.0010	\$ 424.32	\$0.00	0.0%	1.13%
Regulated Price Plan – Administration Charge	1	\$ 0.2500	\$ 0.25	1	\$ 0.2500	\$ 0.25	\$0.00	0.0%	0.00%
Sub-Total: Regulatory			\$ 2,631.03			\$ 2,631.03	\$0.00	0.0%	7.00%
Debt Retirement Charge (DRC)	400,000	\$ 0.0070	\$ 2,800.00	400,000	\$ 0.0070	\$ 2,800.00	\$0.00	0.0%	7.45%
Total Bill before Taxes			\$ 35,593.18			\$ 35,478.58	(\$114.60)	(0.3)%	94.34%
GST	\$ 35,593.18	6.00%	\$ 2,135.59	\$ 35,478.58	6.00%	\$ 2,128.71	(\$6.88)	(0.3)%	5.66%
Total Bill after Taxes			\$ 37,728.77			\$ 37,607.29	(\$121.48)	(0.3)%	100.00%



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 13 - Bill Impacts by Consumption

Click on the "Calculate" button to determine a series of bill impacts for each class at different consumption levels.

Please note that the values input into columns C (kWh) and D (kW) below are filler only and may or may not reflect the true consumption nature of the associated rate class. It is the applicant's responsibility to ensure realistic value ranges are entered into the Columns C & D.

Class	Consumption kWh	Consumption kW	2007 Bill	2008 Bill	Difference \$	Bill Impact %	Max	Min
Residential	100		\$ 28.20	\$ 27.89	-\$ 0.31	-1.1%	-1.1%	-1.9%
	250		\$ 43.77	\$ 43.13	-\$ 0.64	-1.5%		
	500		\$ 69.72	\$ 68.52	-\$ 1.20	-1.7%		
	600		\$ 80.45	\$ 79.03	-\$ 1.42	-1.8%		
	750		\$ 97.54	\$ 95.79	-\$ 1.75	-1.8%		
	1,000		\$ 126.02	\$ 123.71	-\$ 2.31	-1.8%		
	1,500		\$ 182.99	\$ 179.56	-\$ 3.42	-1.9%		
General Service Less Than 50 kW	2,000		\$ 219.15	\$ 215.91	-\$ 3.24	-1.5%	-1.5%	-1.6%
	2,500		\$ 270.04	\$ 266.00	-\$ 4.04	-1.5%		
	4,000		\$ 422.71	\$ 416.29	-\$ 6.42	-1.5%		
	5,000		\$ 524.49	\$ 516.47	-\$ 8.01	-1.5%		
	10,000		\$ 1,033.38	\$ 1,017.42	-\$ 15.96	-1.5%		
	12,500		\$ 1,287.83	\$ 1,267.89	-\$ 19.94	-1.5%		
	15,000		\$ 1,542.28	\$ 1,518.37	-\$ 23.91	-1.6%		
General Service 50 to 4,999 kW	15,000	10	\$ 1,418.93	\$ 1,415.48	-\$ 3.45	-0.2%	-0.2%	-0.3%
	40,000	27	\$ 3,710.94	\$ 3,701.56	-\$ 9.38	-0.3%		
	100,000	69	\$ 9,211.76	\$ 9,188.15	-\$ 23.61	-0.3%		
	400,000	274	\$ 36,715.88	\$ 36,621.12	-\$ 94.77	-0.3%		
	1,000,000	685	\$ 91,724.12	\$ 91,487.05	-\$ 237.07	-0.3%		
	1,500,000	1,028	\$ 137,564.32	\$ 137,208.66	-\$ 355.66	-0.3%		
	2,000,000	1,371	\$ 183,404.52	\$ 182,930.27	-\$ 474.25	-0.3%		
Large Use	15,000	10	\$ 5,343.37	\$ 5,369.66	\$ 26.29	0.5%	0.5%	0.2%
	40,000	27	\$ 7,446.83	\$ 7,476.38	\$ 29.54	0.4%		
	100,000	69	\$ 12,495.13	\$ 12,532.49	\$ 37.36	0.3%		
	400,000	274	\$ 37,736.65	\$ 37,813.06	\$ 76.41	0.2%		
	1,000,000	685	\$ 88,219.67	\$ 88,374.19	\$ 154.51	0.2%		
	1,500,000	1,028	\$ 130,288.86	\$ 130,508.46	\$ 219.60	0.2%		
	2,000,000	1,371	\$ 172,358.05	\$ 172,642.74	\$ 284.69	0.2%		
Unmetered Scattered Load	15,000	10	\$ 1,265.09	\$ 1,265.09	\$ -	0.0%	0.0%	0.0%
	40,000	27	\$ 3,368.17	\$ 3,368.06	-\$ 0.12	0.0%		
	100,000	69	\$ 8,415.57	\$ 8,415.18	-\$ 0.39	0.0%		
	400,000	274	\$ 33,652.54	\$ 33,650.80	-\$ 1.74	0.0%		
	1,000,000	685	\$ 84,126.49	\$ 84,122.05	-\$ 4.44	0.0%		
	1,500,000	1,028	\$ 126,188.11	\$ 126,181.41	-\$ 6.69	0.0%		
	2,000,000	1,371	\$ 168,249.73	\$ 168,240.78	-\$ 8.94	0.0%		



2008 INCENTIVE RATE MECHANISM ADJUSTMENT MODEL

Middlesex Power Distribution Corporation

EB-20070867, EB-2007-0553, EB-2005-0351

November 1, 2007

Sheet 13 - Bill Impacts by Consumption

Click on the "Calculate" button to determine a series of bill impacts for each class at different consumption levels.

Please note that the values input into columns C (kWh) and D (kW) below are filler only and may or may not reflect the true consumption nature of the associated rate class. It is the applicant's responsibility to ensure realistic value ranges are entered into the Columns C & D.

Class	Consumption kWh	Consumption kW	2007 Bill	2008 Bill	Difference \$	Bill Impact %	Max	Min
Sentinel Lighting	15,000	10	\$ 1,300.90	\$ 1,300.90	\$ 0.01	0.0%	0.0%	0.0%
	40,000	27	\$ 3,480.21	\$ 3,480.22	\$ 0.01	0.0%		
	100,000	69	\$ 8,710.55	\$ 8,710.59	\$ 0.04	0.0%		
	400,000	274	\$ 34,862.28	\$ 34,862.43	\$ 0.15	0.0%		
	1,000,000	685	\$ 87,165.74	\$ 87,166.11	\$ 0.36	0.0%		
	1,500,000	1,028	\$ 130,751.96	\$ 130,752.50	\$ 0.54	0.0%		
	2,000,000	1,371	\$ 174,338.18	\$ 174,338.90	\$ 0.73	0.0%		
Street Lighting	15,000	10	\$ 1,296.95	\$ 1,295.70	-\$ 1.25	-0.1%	-0.1%	-0.1%
	40,000	27	\$ 3,469.75	\$ 3,466.42	-\$ 3.33	-0.1%		
	100,000	69	\$ 8,684.47	\$ 8,676.15	-\$ 8.32	-0.1%		
	400,000	274	\$ 34,758.07	\$ 34,724.77	-\$ 33.30	-0.1%		
	1,000,000	685	\$ 86,905.28	\$ 86,822.03	-\$ 83.25	-0.1%		
	1,500,000	1,028	\$ 130,361.29	\$ 130,236.41	-\$ 124.87	-0.1%		
	2,000,000	1,371	\$ 173,817.29	\$ 173,650.80	-\$ 166.50	-0.1%		