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## WATERLOO NORTH HYDRO INC.

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January 12, 2012

Ontario Energy Board  
P.O. Box 2319  
27<sup>th</sup> Floor  
2300 Yonge Street  
Toronto, Ontario  
M4P 1E4

**Attention: Ms. Kirsten Walli, Board Secretary**

Dear Ms Walli:

**Re: May 1, 2012 IRM Rate Filing Board Staff Interrogatory Responses /  
EB-2011-0201**

Pursuant to Board Staff's Interrogatories of December 13, 2011, Waterloo North Hydro Inc. (WNH) hereby submits its response to these interrogatories. We enclose two (2) hard copies of the Interrogatory Responses. WNH has also attached its Responses to the Intervenor Interrogatories from the Vulnerable Energy Consumers Coalition dated December 13, 2011.

WNH has previously forwarded the PDF version and an Excel File containing the Smart Meter Model via the Board's web portal.

If there are any questions, please contact Chris Amos at 519-888-5541, [camos@wnhydro.com](mailto:camos@wnhydro.com) or myself at 519-888-5542, [asingh@wnhydro.com](mailto:asingh@wnhydro.com) .

Yours truly,

*Original Signed By*

Albert P. Singh, MBA, CGA  
Vice-President, Finance and CFO

**Waterloo North Hydro Inc.  
EB-2011-0201**

**Response to Board Staff  
Interrogatories**

WNH has provided its response to Board Staff Interrogatories below.

**WNH's Proposed Recovery Period for Group 1 Deferral and Variance Accounts, PILs 1562, Special Purpose Charge (SPC) and LRAM including the Smart Meter Funding Adder (SMFA)**

WNH stated in its Application of October 26, 2011 on page 11:

"In 2010 the Board approved a four year disposition period for Waterloo North Hydro's Group 1 Account Deferral and Variance Account Balances and Waterloo North Hydro is proposing to consistently apply this disposition period in order to provide rate stability to its customers. In 2011 the Board approved Waterloo North Hydro's Settlement Agreement in which the Deferral and Variance Account Balances were disposed of over a three year period. A three year disposition period was settled upon since a four year disposition period resulted in a \$0.0000 charge for some rate classes. This situation does not occur in this 2012 application. Waterloo North Hydro understands that the terms contained in a Settlement Agreement do not necessarily create a precedent for the Board, however, Waterloo North Hydro has provided this information to demonstrate that historically its Deferral and Variance Account Balances are disposed of over a period exceeding one year.

In addition, the proposed disposition of Account 1562, PILs as detailed in Section 2.8 below, is for the period October 1, 2001 through April 30, 2006 (and forecast carrying charges from May 1, 2006 to April 30, 2012). Waterloo submits that disposition of this balance over a one year period is not reasonable considering the time frame that has elapsed since the commencement of the collection period, and since April, 2006, and that a four year disposition period is suitable for the reasons articulated above."

After calculation of the revised Smart Meter Funding Adder in the Smart Meter Model and review of WNH's interrogatory responses regarding the recovery period (Board Staff IR # 6, VECC IR # 2), WNH is proposing to increase its SMFA to \$1.37 (see IR # 8) and to continue proposing to recover its 2012 Group 1 Deferral and Variance Accounts, PILs 1562, SPC and LRAM Rate Riders over a four year recovery period.

The summary tables below details the Total Bill Rate Impacts with a \$1.37 SMFA and the recovery of the Group 1 Deferral and Variance Accounts, PILs 1562, SPC and LRAM over one, two and four years. WNH has also provided a detailed rate impact calculation by rate class with the proposed four year recovery period and \$1.37 SMFA.

As is demonstrated by this summary table, a SMFA of \$1.37 and a four year disposition period still results in a decrease in the total bill of (.73%) to (1.58%). WNH is always mindful of its customers' rate stability and a four year disposition period allows rate stability in 2012 and the future. A one or two year disposition period allows a larger decrease in the one or two year period, however, as these rate riders cease, the customers would experience a larger rate increase.

WNH also notes that it has the majority of its 2010 and 2011 rate riders ceasing in 2014. To cease the 2012 rate riders in 2013 or 2014 would have WNH's customers experience either two years in a row of increased rates due to cessation of rate riders (2013 and 2014) or to experience an even larger rate increase in 2014 if a two year disposition period was ordered.

**Summary of SMFA of \$1.37 and Comparison of Disposition Periods for Group 1 Deferral and Variance Accounts, PILs 1562, SPC and LRAM**

Rate Class	Monthly Consumption		4 Year	
			WNH Application	
			\$ (Decrease) on Total Bill	% (Decrease) on Total Bill
	kWh	kW		
Residential	800		(0.79)	-0.73%
GS < 50 kW	2,000		(1.92)	-0.74%
GS > 50 kW	100,000	250	(71.44)	-0.68%
Large User	7,000,000	12,300	(3,815.55)	-0.58%
USL	250		(0.71)	-1.58%
Street Light	50	0.14	(0.07)	-1.14%
Embedded Distributor	2,375,000	6,000	(1,216.13)	-0.64%

Rate Class	Monthly Consumption		1 Year			
			IR # 6			
			\$ (Decrease) on Total Bill	% (Decrease) on Total Bill	\$ Change vs 4 Years	% Change vs 4 Years
	kWh	kW				
Residential	800		(2.94)	-2.73%	(2.15)	-1.99%
GS < 50 kW	2,000		(6.23)	-2.40%	(4.31)	-1.66%
GS > 50 kW	100,000	250	(276.44)	-2.65%	(205.00)	-1.96%
Large User	7,000,000	12,300	(14,994.93)	-2.27%	(11,179.38)	-1.69%
USL	250		(1.76)	-3.90%	(1.04)	-2.32%
Street Light	50	0.14	(0.20)	-3.13%	(0.13)	-1.99%
Embedded Distributor	2,375,000	6,000	(4,844.99)	-2.54%	(3,628.85)	-1.90%

Rate Class	Monthly Consumption		2 Year			
			IR # 6			
			\$ (Decrease) on Total Bill	% (Decrease) on Total Bill	\$ Change vs 4 Years	% Change vs 4 Years
	kWh	kW				
Residential	800		(1.56)	-1.44%	(0.77)	-0.71%
GS < 50 kW	2,000		(3.21)	-1.24%	(1.30)	-0.50%
GS > 50 kW	100,000	250	(139.79)	-1.34%	(68.35)	-0.65%
Large User	7,000,000	12,300	(7,542.01)	-1.14%	(3,726.46)	-0.56%
USL	250		(1.06)	-2.36%	(0.35)	-0.78%
Street Light	50	0.14	(0.11)	-1.70%	(0.04)	-0.57%
Embedded Distributor	2,375,000	6,000	(2,425.55)	-1.27%	(1,209.41)	-0.63%

## Rate Impact of \$1.37 SMFA and 4 Year Recovery Period for Group 1 Deferral and Variance Accounts, PILs 1562, SPC and LRAM

Customer Class: Residential

Consumption 800 kWh

| Pink indicates a changes in SMFA

	Charge Unit	Current Board-Approved			Proposed			Impact		
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	\$ 14.5600	1	\$ 14.56	\$ 14.5900	1	\$ 14.59	\$ 0.03	0.21%
2	Smart Meter Rate Adder	monthly	\$ 1.0000	1	\$ 1.00	\$ 1.3700	1	\$ 1.37	\$ 0.37	37.00%
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kWh	\$ 0.0184	800	\$ 14.72	\$ 0.0184	800	\$ 14.72	\$ -	0.00%
6	Low Voltage Rate Adder	per kWh	\$ 0.0001	800	\$ 0.08	\$ 0.0001	800	\$ 0.08	\$ -	0.00%
7	Volumetric Rate Adder(s)			800	\$ -		800	\$ -	\$ -	
8	Volumetric Rate Rider(s)			800	\$ -		800	\$ -	\$ -	
9	Smart Meter Disposition Rider			800	\$ -		800	\$ -	\$ -	
10	LRAM & SSM Rate Rider	per kWh	\$ 0.0002	800	\$ 0.16	\$ 0.0003	800	\$ 0.20	\$ 0.04	25.00%
11	Deferral/Variance Account Disposition Rate Rider	per kWh	-\$ 0.00273	800	-\$ 2.18	-\$ 0.00363	800	-\$ 2.90	-\$ 0.72	32.97%
12	LPP Rate Rider	monthly	\$ 0.1900	1	\$ 0.19		1	\$ -	-\$ 0.19	-100.00%
13	Capital Gains Rate Rider	per kWh	-\$ 0.0007	800	-\$ 0.56	-\$ 0.0007	800	-\$ 0.56	\$ -	0.00%
14	Foregone Revenue Rate Rider	per kWh	\$ 0.0005	800	\$ 0.40		800	\$ -	-\$ 0.40	-100.00%
15	Tax Change Rate Rider	per kWh	\$ -	800	\$ -	-\$ 0.0001	800	-\$ 0.08	-\$ 0.08	
16	<b>Sub-Total A - Distribution</b>				\$ 28.37			\$ 27.42	-\$ 0.95	-3.35%
17	RTSR - Network	per kWh	\$ 0.0067	832.32	\$ 5.58	\$ 0.0068	832.32	\$ 5.66	\$ 0.08	1.49%
18	RTSR - Line and Transformation Connection	per kWh	\$ 0.0022	832.32	\$ 1.83	\$ 0.0023	832.32	\$ 1.91	\$ 0.08	4.55%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				\$ 35.77			\$ 34.99	-\$ 0.78	-2.19%
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	832.32	\$ 4.33	\$ 0.0052	832.32	\$ 4.33	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	832.32	\$ 1.08	\$ 0.0013	832.32	\$ 1.08	\$ -	0.00%
22	Special Purpose Charge	per kWh		832.32	\$ -		832.32	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	800	\$ 5.60	\$ 0.0070	800	\$ 5.60	\$ -	0.00%
25	Energy First Block	per kWh	\$ 0.06800	600	\$ 40.80	\$ 0.06800	600	\$ 40.80	\$ -	0.00%
26	Energy Second Block	per kWh	\$ 0.0790	232.32	\$ 18.35	\$ 0.0790	232.32	\$ 18.35	\$ -	0.00%
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				\$ 106.19			\$ 105.40	-\$ 0.78	-0.74%
29	HST		13%		\$ 13.80	13%		\$ 13.70	-\$ 0.10	-0.74%
30	<b>Total Bill (including Sub-total B)</b>				\$ 119.99			\$ 119.11	-\$ 0.88	-0.73%
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 12.00	-10%		-\$ 11.91	\$ 0.09	-0.73%
	<b>Total Bill (less OCEB)</b>				\$ 107.99			\$ 107.20	-\$ 0.79	-0.73%

31 Loss Factor (%) Note 1 4.04% 4.04%

**Notes:**

**Note 1:** Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

General Service < 50 kW										
Consumption		2,000		kWh						
	Charge Unit	Current Board-Approved			Proposed			Impact		
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	\$ 30.6300	1	\$ 30.63	\$ 30.6900	1	\$ 30.69	\$ 0.06	0.20%
2	Smart Meter Rate Adder	monthly	\$ 1.0000	1	\$ 1.00	\$ 1.3700	1	\$ 1.37	\$ 0.37	37.00%
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kWh	\$ 0.0137	2000	\$ 27.40	\$ 0.0137	2000	\$ 27.40	\$ -	0.00%
6	Low Voltage Rate Adder	per kWh	\$ 0.0001	2000	\$ 0.20	\$ 0.0001	2000	\$ 0.20	\$ -	0.00%
7	Volumetric Rate Adder(s)			2000	\$ -		2000	\$ -	\$ -	
8	Volumetric Rate Rider(s)			2000	\$ -		2000	\$ -	\$ -	
9	Smart Meter Disposition Rider			2000	\$ -		2000	\$ -	\$ -	
10	LRAM & SSM Rider	per kWh	\$ 0.0001	2000	\$ 0.20	\$ 0.0002	2000	\$ 0.32	\$ 0.12	60.00%
11	Deferral/Variance Account Disposition Rate Rider	per kWh	-\$ 0.00273	2000	-\$ 5.46	-\$ 0.00353	2000	-\$ 7.06	-\$ 1.60	29.30%
12	LPP Rate Rider	monthly	\$ 0.4500	1	\$ 0.45			\$ -	-\$ 0.45	-100.00%
13	Capital Gains Rate Rider	per kWh	-\$ 0.0004	2,000	-\$ 0.80	-\$ 0.0004	2000	-\$ 0.80	\$ -	0.00%
14	Foregone Revenue Rate Rider	per kWh	\$ 0.0003	2,000	\$ 0.60			\$ -	-\$ 0.60	-100.00%
15	Tax Change Rate Rider				\$ -	-\$ 0.0001	2,000	-\$ 0.20	-\$ 0.20	
16	<b>Sub-Total A - Distribution</b>				<b>\$ 54.22</b>			<b>\$ 51.92</b>	<b>-\$ 2.30</b>	<b>-4.24%</b>
17	RTSR - Network	per kWh	\$ 0.0061	2080.8	\$ 12.69	\$ 0.0062	2080.8	\$ 12.90	\$ 0.21	1.64%
18	RTSR - Line and Transformation Connection	per kWh	\$ 0.0020	2080.8	\$ 4.16	\$ 0.0021	2080.8	\$ 4.37	\$ 0.21	5.00%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 71.07</b>			<b>\$ 69.19</b>	<b>-\$ 1.88</b>	<b>-2.65%</b>
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	2080.8	\$ 10.82	\$ 0.0052	2080.8	\$ 10.82	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	2080.8	\$ 2.71	\$ 0.0013	2080.8	\$ 2.71	\$ -	0.00%
22	Special Purpose Charge	per kWh		2080.8	\$ -		2080.8	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	2000	\$ 14.00	\$ 0.0070	2000	\$ 14.00	\$ -	0.00%
25	Energy First Block	per kWh	\$ 0.06800	750	\$ 51.00	\$ 0.06800	750	\$ 51.00	\$ -	0.00%
26	Energy Second Block	per kWh	\$ 0.0790	1330.8	\$ 105.13	\$ 0.0790	1330.8	\$ 105.13	\$ -	0.00%
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				<b>\$ 254.98</b>			<b>\$ 253.10</b>	<b>-\$ 1.88</b>	<b>-0.74%</b>
29	HST		13%		\$ 33.15	13%		\$ 32.90	-\$ 0.24	-0.74%
30	<b>Total Bill (including Sub-total B)</b>				<b>\$ 288.13</b>			<b>\$ 286.00</b>	<b>-\$ 2.13</b>	<b>-0.74%</b>
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 28.81	-10%		-\$ 28.60	\$ 0.21	-0.74%
	<b>Total Bill (less OCEB)</b>				<b>\$ 259.32</b>			<b>\$ 257.40</b>	<b>-\$ 1.92</b>	<b>-0.74%</b>

31 Loss Factor

Note 1

4.04%

4.04%

Notes:

Note 1: See Note 1 from Sheet 1A. Bill Impacts - Residential

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General Service > 50 kW										
Consumption	Charge Unit	250 kW		100,000 kWh		Proposed			Impact	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	\$ 162.82	1	\$ 162.82	\$ 138.76	1	\$ 138.76	-\$ 24.06	-14.78%
2	Smart Meter Rate Adder	monthly	\$ 1.0000	1	\$ 1.00	\$ 1.3700	1	\$ 1.37	\$ 0.37	37.00%
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kW	\$ 4.3073	250	\$ 1,076.83	\$ 4.4369	250	\$ 1,109.23	\$ 32.40	3.01%
6	Low Voltage Rate Adder	per kW	\$ 0.0551	250	\$ 13.78	\$ 0.0551	250	\$ 13.78	\$ -	0.00%
7	Volumetric Rate Adder(s)			250	\$ -		250	\$ -	\$ -	
8	Volumetric Rate Rider(s)			250	\$ -		250	\$ -	\$ -	
9	Smart Meter Disposition Rider			250	\$ -		250	\$ -	\$ -	
10	LRAM & SSM Rate Rider	per kW	\$ 0.1495	250	\$ 37.38	\$ 0.1548	250	\$ 38.69	\$ 1.32	3.53%
11	Deferral/Variance Account Disposition Rate Rider	per kW	-\$ 1.17104	250	-\$ 292.76	-\$ 1.44504	250	-\$ 361.26	-\$ 68.50	23.40%
12	LPP Rate Rider	monthly	\$ 6.6700	1	\$ 6.67		1	\$ -	-\$ 6.67	-100.00%
13	Capital Gains Rate Rider	per kW	-\$ 0.0866	250	-\$ 21.65	-\$ 0.0866	250	-\$ 21.65	\$ -	0.00%
14	Foregone Revenue Rate Rider	per kW	\$ 0.0584	250	\$ 14.60		250	\$ -	-\$ 14.60	-100.00%
15	Low Voltage Rate Rider Tax Change Rate Rider	per kW	\$ 0.0023	250	\$ 0.58		250	\$ -	-\$ 0.58	-100.00%
16	<b>Sub-Total A - Distribution</b>				\$ 999.23			\$ 916.16	-\$ 83.07	-8.31%
17	RTSR - Network	per kW	\$ 2.4945	250	\$ 623.63	\$ 2.5268	250	\$ 631.70	\$ 8.08	1.29%
18	RTSR - Line and Transformation Connection	per kW	\$ 0.7822	250	\$ 195.55	\$ 0.8012	250	\$ 200.30	\$ 4.75	2.43%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				\$ 1,818.41			\$ 1,748.16	-\$ 70.24	-3.86%
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	104,040	\$ 541.01	\$ 0.0052	104,040	\$ 541.01	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	104,040	\$ 135.25	\$ 0.0013	104,040	\$ 135.25	\$ -	0.00%
22	Special Purpose Charge	per kWh		104,040	\$ -		104,040	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	100,000	\$ 700.00	\$ 0.0070	100,000	\$ 700.00	\$ -	0.00%
25	Energy	per kWh	\$ 0.06800	104,040	\$ 7,074.72	\$ 0.06800	104,040	\$ 7,074.72	\$ -	0.00%
26					\$ -			\$ -	\$ -	
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				\$ 10,269.64			\$ 10,199.39	-\$ 70.24	-0.68%
29	HST		13%		\$ 1,335.05	13%		\$ 1,325.92	-\$ 9.13	-0.68%
30	<b>Total Bill (including Sub-total B)</b>				\$ 11,604.69			\$ 11,525.31	-\$ 79.38	-0.68%
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 1,160.47	-10%		-\$ 1,152.53	\$ 7.94	-0.68%
	<b>Total Bill (less OCEB)</b>				\$ 10,444.22			\$ 10,372.78	-\$ 71.44	-0.68%

31 Loss Factor (%) Note 1 4.04% 4.04%

Notes:

Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

Large Use												
Consumption	12,300 kW		7,000,000 kWh		Current Board-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	\$ 6,686.47	1	\$ 6,686.47	\$ 6,698.51	1	\$ 6,698.51	\$ 12.04	0.18%		
2	Smart Meter Rate Adder	monthly	\$ 1.0000	1	\$ 1.00	\$ 1.3700	1	\$ 1.37	\$ 0.37	37.00%		
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -			
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -			
5	Distribution Volumetric Rate	per kW	\$ 3.1991	12,300	\$ 39,348.93	\$ 3.2049	12,300	\$ 39,420.27	\$ 71.34	0.18%		
6	Low Voltage Rate Adder	per kW	\$ 0.0553	12,300	\$ 680.19	\$ 0.0553	12,300	\$ 680.19	\$ -	0.00%		
7	Volumetric Rate Adder(s)			12,300	\$ -		12,300	\$ -	\$ -			
8	Volumetric Rate Rider(s)			12,300	\$ -		12,300	\$ -	\$ -			
9	Smart Meter Disposition Rider			12,300	\$ -		12,300	\$ -	\$ -			
10	LRAM & SSM Rate Rider	per kW	\$ -	12,300	\$ -	\$ -	12,300	\$ -	\$ -			
11	Deferral/Variance Account Disposition Rate Rider	per kW	-\$ 1.48428	12,300	-\$ 18,256.64	-\$ 1.78218	12,300	-\$ 21,920.81	-\$ 3,664.17	20.07%		
12	LPP Rate Rider	monthly	\$ 251.3000	1	\$ 251.30			\$ -	-\$ 251.30	-100.00%		
13	Capital Gains Rate Rider	per kW	-\$ 0.0678	12,300	-\$ 833.94	-\$ 0.0678	12,300	-\$ 833.94	\$ -	0.00%		
14	Foregone Revenue Rate Rider	per kW	\$ 0.0457	12,300	\$ 562.11			\$ -	-\$ 562.11	-100.00%		
	Tax Change Rate Rider	per kW			\$ -	-\$ 0.0079	12,300	-\$ 97.17	-\$ 97.17			
15	Low Voltage Rate Rider	per kW	\$ 0.0016	12,300	\$ 19.68			\$ -	-\$ 19.68	-100.00%		
16	<b>Sub-Total A - Distribution</b>				<b>\$ 28,459.10</b>			<b>\$ 23,948.42</b>	<b>-\$ 4,510.68</b>	<b>-15.85%</b>		
17	RTSR - Network	per kW	\$ 2.9335	12,300	\$ 36,082.05	\$ 2.9714	12,300	\$ 36,548.22	\$ 466.17	1.29%		
18	RTSR - Line and Transformation Connection	per kW	\$ 0.9804	12,300	\$ 12,058.92	\$ 1.0042	12,300	\$ 12,351.66	\$ 292.74	2.43%		
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 76,600.07</b>			<b>\$ 72,848.30</b>	<b>-\$ 3,751.77</b>	<b>-4.90%</b>		
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	7,035,000	\$ 36,582.00	\$ 0.0052	7,035,000	\$ 36,582.00	\$ -	0.00%		
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	7,035,000	\$ 9,145.50	\$ 0.0013	7,035,000	\$ 9,145.50	\$ -	0.00%		
22	Special Purpose Charge	per kWh		7,035,000	\$ -		7,035,000	\$ -	\$ -			
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%		
24	Debt Retirement Charge (DRC) Energy	per kWh	\$ 0.0070	7,000,000	\$ 49,000.00	\$ 0.0070	7,000,000	\$ 49,000.00	\$ -	0.00%		
25		per kWh	\$ 0.06800	7,035,000	\$ 478,380.00	\$ 0.06800	7,035,000	\$ 478,380.00	\$ -	0.00%		
26					\$ -			\$ -	\$ -			
27					\$ -			\$ -	\$ -			
28	<b>Total Bill (before Taxes)</b>				<b>\$ 649,707.82</b>			<b>\$ 645,956.05</b>	<b>-\$ 3,751.77</b>	<b>-0.58%</b>		
29	HST		13%		\$ 84,462.02	13%		\$ 83,974.29	-\$ 487.73	-0.58%		
30	<b>Total Bill (including Sub-total B)</b>				<b>\$ 734,169.83</b>			<b>\$ 729,930.33</b>	<b>-\$ 4,239.50</b>	<b>-0.58%</b>		
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 73,416.98	-10%		-\$ 72,993.03	\$ 423.95	-0.58%		
	<b>Total Bill (less OCEB)</b>				<b>\$ 660,752.85</b>			<b>\$ 656,937.30</b>	<b>-\$ 3,815.55</b>	<b>-0.58%</b>		

31 Loss Factor (%) Note 1 0.50% 0.50%

Notes:

Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

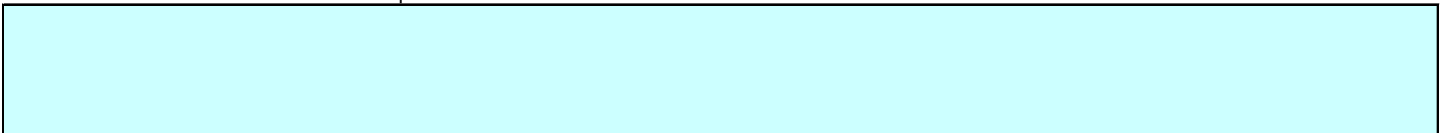


Unmetered Scattered Load										
Consumption		250 kWh								
	Charge Unit	Current Board-Approved			Proposed			Impact		
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	\$ 15.31	1	\$ 15.31	\$ 15.34	1	\$ 15.34	\$ 0.03	0.20%
2	Smart Meter Rate Adder	monthly		1	\$ -		1	\$ -	\$ -	
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kWh	\$ 0.0190	250	\$ 4.75	\$ 0.0190	250	\$ 4.75	\$ -	0.00%
6	Low Voltage Rate Adder	per kWh	\$ 0.0001	250	\$ 0.03	\$ 0.0001	250	\$ 0.03	\$ -	0.00%
7	Volumetric Rate Adder(s)			250	\$ -		250	\$ -	\$ -	
8	Volumetric Rate Rider(s)			250	\$ -		250	\$ -	\$ -	
9	Smart Meter Disposition Rider			250	\$ -		250	\$ -	\$ -	
10	LRAM & SSM Rider	per kWh	\$ 0.0048	250	\$ 1.20	\$ 0.0048	250	\$ 1.20	\$ -	0.00%
11	Deferral/Variance Account Disposition Rate Rider	per kWh	-\$ 0.00203	250	-\$ 0.51	-\$ 0.00343	250	-\$ 0.86	-\$ 0.35	68.97%
12	LPP Rate Rider	monthly	\$ 0.1400		\$ -			\$ -	\$ -	
13	Capital Gains Rate Rider	per kWh	-\$ 0.0015		\$ -	-\$ 0.0015	250	-\$ 0.38	-\$ 0.38	
14	Foregone Revenue Rate Rider	per kWh	\$ 0.0008		\$ -			\$ -	\$ -	
15	Tax Change Rate Rider	per kWh			\$ -	-\$ 0.0002	250	-\$ 0.05	-\$ 0.05	
16	<b>Sub-Total A - Distribution</b>				<b>\$ 20.78</b>			<b>\$ 20.03</b>	<b>-\$ 0.75</b>	<b>-3.59%</b>
17	RTSR - Network	per kWh	\$ 0.0061	260.1	\$ 1.59	\$ 0.0062	260.1	\$ 1.61	\$ 0.03	1.64%
18	RTSR - Line and Transformation Connection	per kWh	\$ 0.0020	260.1	\$ 0.52	\$ 0.0021	260.1	\$ 0.55	\$ 0.03	5.00%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 22.88</b>			<b>\$ 22.19</b>	<b>-\$ 0.69</b>	<b>-3.03%</b>
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	260.1	\$ 1.35	\$ 0.0052	260.1	\$ 1.35	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	260.1	\$ 0.34	\$ 0.0013	260.1	\$ 0.34	\$ -	0.00%
22	Special Purpose Charge	per kWh		260.1	\$ -		260.1	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	250	\$ 1.75	\$ 0.0070	250	\$ 1.75	\$ -	0.00%
25	Energy	per kWh	\$ 0.06800	260.1	\$ 17.69	\$ 0.06800	260.1	\$ 17.69	\$ -	0.00%
26					\$ -			\$ -	\$ -	
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				<b>\$ 44.26</b>			<b>\$ 43.57</b>	<b>-\$ 0.69</b>	<b>-1.57%</b>
29	HST		13%		\$ 5.75	13%		\$ 5.66	-\$ 0.09	-1.57%
30	<b>Total Bill (including Sub-total B)</b>				<b>\$ 50.02</b>			<b>\$ 49.23</b>	<b>-\$ 0.79</b>	<b>-1.58%</b>
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 5.00	-10%		-\$ 4.92	\$ 0.08	-1.58%
	<b>Total Bill (less OCEB)</b>				<b>\$ 45.02</b>			<b>\$ 44.31</b>	<b>-\$ 0.71</b>	<b>-1.58%</b>

31 Loss Factor Note 1 4.04% 4.04%

Notes:

Note 1: See Note 1 from Sheet 1A. Bill Impacts - Residential



Street Lighting									
Consumption	0.14 kW								
	50 kWh								
	Current Board-Approved			Proposed			Impact		
Charge Unit	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1 Monthly Service Charge	monthly	\$ 0.33	1	\$ 0.33	\$ 0.33	1	\$ 0.33	\$ -	0.00%
2 Smart Meter Rate Adder	monthly		1	\$ -		1	\$ -	\$ -	
3 Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4 Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5 Distribution Volumetric Rate	per kW	\$ 8.3232	0.14	\$ 1.17	\$ 8.3382	0.14	\$ 1.17	\$ 0.00	0.18%
6 Low Voltage Rate Adder	per kW	\$ 0.0341	0.14	\$ 0.00	\$ 0.0341	0.14	\$ 0.00	\$ -	0.00%
7 Volumetric Rate Adder(s)			0.14	\$ -		0.14	\$ -	\$ -	
8 Volumetric Rate Rider(s)			0.14	\$ -		0.14	\$ -	\$ -	
9 Smart Meter Disposition Rider			0.14	\$ -		0.14	\$ -	\$ -	
10 LRAM & SSM Rate Rider	per kW	\$ 0.2475	0.14	\$ 0.03	\$ 0.2475	0.14	\$ 0.03	\$ -	0.00%
11 Deferral/Variance Account Disposition Rate Rider	per kW	-\$ 0.9421	0.14	-\$ 0.13	-\$ 1.23823	0.14	-\$ 0.17	-\$ 0.04	31.43%
12 LPP Rate Rider	monthly	\$ 0.0100	1	\$ 0.01			\$ -	-\$ 0.01	-100.00%
13 Capital Gains Rate Rider	per kW	-\$ 0.1959	0.14	-\$ 0.03	-\$ 0.1959	0.14	-\$ 0.03	\$ -	0.00%
14 Foregone Revenue Rate Rider	per kW	\$ 0.1435	0.14	\$ 0.02			\$ -	-\$ 0.02	-100.00%
Tax Change Rate Rider	per kW			\$ -	-\$ 0.0229	0.14	-\$ 0.00	-\$ 0.00	
15 Low Voltage Rate Rider	per kW	\$ 0.0010	0.14	\$ 0.00			\$ -	-\$ 0.00	-100.00%
<b>16 Sub-Total A - Distribution</b>				<b>\$ 1.41</b>			<b>\$ 1.33</b>	<b>-\$ 0.07</b>	<b>-5.18%</b>
17 RTSR - Network	per kW	\$ 1.8815	0.14	\$ 0.26	\$ 1.9058	0.14	\$ 0.27	\$ 0.00	1.29%
18 RTSR - Line and Transformation Connection	per kW	\$ 0.6046	0.14	\$ 0.08	\$ 0.6193	0.14	\$ 0.09	\$ 0.00	2.43%
<b>19 Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 1.75</b>			<b>\$ 1.69</b>	<b>-\$ 0.07</b>	<b>-3.84%</b>
20 Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	52	\$ 0.27	\$ 0.0052	52	\$ 0.27	\$ -	0.00%
21 Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	52	\$ 0.07	\$ 0.0013	52	\$ 0.07	\$ -	0.00%
22 Special Purpose Charge	per kWh		52	\$ -		52	\$ -	\$ -	
23 Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24 Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	50	\$ 0.35	\$ 0.0070	50	\$ 0.35	\$ -	0.00%
25 Energy	per kWh	\$ 0.06800	52	\$ 3.54	\$ 0.06800	52	\$ 3.54	\$ -	0.00%
26				\$ -			\$ -	\$ -	
27				\$ -			\$ -	\$ -	
<b>28 Total Bill (before Taxes)</b>				<b>\$ 6.23</b>			<b>\$ 6.16</b>	<b>-\$ 0.07</b>	<b>-1.08%</b>
29 HST		13%		\$ 0.81	13%		\$ 0.80	-\$ 0.01	-1.08%
<b>30 Total Bill (including Sub-total B)</b>				<b>\$ 7.04</b>			<b>\$ 6.96</b>	<b>-\$ 0.08</b>	<b>-1.14%</b>
Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 0.70	-10%		-\$ 0.70	\$ 0.01	-1.14%
<b>Total Bill (less OCEB)</b>				<b>\$ 6.34</b>			<b>\$ 6.26</b>	<b>-\$ 0.07</b>	<b>-1.14%</b>

31 Loss Factor (%) Note 1 4.04% 4.04%

Notes:

Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

Embedded Distributor												
Consumption	6,000 kW		2,375,000 kWh		Current Board-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly		1	\$ -		1	\$ -		\$ -		
2	Smart Meter Rate Adder	monthly		1	\$ -		1	\$ -		\$ -		
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -		\$ -		
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -		\$ -		
5	Distribution Volumetric Rate	per kW	\$ 0.0120	6,000	\$ 72.00	\$ 0.0120	6,000	\$ 72.00		\$ -	0.00%	
6	Low Voltage Rate Adder	per kW		6,000	\$ -		6,000	\$ -		\$ -		
7	Volumetric Rate Adder(s)			6,000	\$ -		6,000	\$ -		\$ -		
8	Volumetric Rate Rider(s)			6,000	\$ -		6,000	\$ -		\$ -		
9	Smart Meter Disposition Rider			6,000	\$ -		6,000	\$ -		\$ -		
10	LRAM & SSM Rate Rider	per kW		6,000	\$ -		6,000	\$ -		\$ -		
11	Deferral/Variance Account Disposition Rate Rider	per kW	-\$ 1.17104	6,000	-\$ 7,026.24	-\$ 1.36924	6,000	-\$ 8,215.44		-\$ 1,189.20	16.93%	
12				1	\$ -		1	\$ -		\$ -		
13	Capital Gains Rate Rider	per kW	-\$ 0.0002	6,000	-\$ 1.20	-\$ 0.0002	6,000	-\$ 1.20		\$ -	0.00%	
14	Foregone Revenue Rate Rider	per kW	\$ 0.0011	6,000	\$ 6.60		6,000	\$ -		-\$ 6.60	-100.00%	
15				6,000	\$ -		6,000	\$ -		\$ -		
16	<b>Sub-Total A - Distribution</b>				<b>-\$ 6,948.84</b>			<b>-\$ 8,144.64</b>		<b>-\$ 1,195.80</b>	<b>-17.21%</b>	
17	RTSR - Network	per kW		6,000	\$ -		6,000	\$ -		\$ -		
18	RTSR - Line and Transformation Connection	per kW		6,000	\$ -		6,000	\$ -		\$ -		
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				<b>-\$ 6,948.84</b>			<b>-\$ 8,144.64</b>		<b>-\$ 1,195.80</b>	<b>-17.21%</b>	
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	2,386,875	\$ 12,411.75	\$ 0.0052	2,386,875	\$ 12,411.75		\$ -	0.00%	
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	2,386,875	\$ 3,102.94	\$ 0.0013	2,386,875	\$ 3,102.94		\$ -	0.00%	
22	Special Purpose Charge	per kWh		2,386,875	\$ -		2,386,875	\$ -		\$ -		
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25		\$ -	0.00%	
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	2,375,000	\$ 16,625.00	\$ 0.0070	2,375,000	\$ 16,625.00		\$ -	0.00%	
25	Energy	per kWh	\$ 0.06800	2,386,875	\$ 162,307.50	\$ 0.06800	2,386,875	\$ 162,307.50		\$ -	0.00%	
26					\$ -			\$ -		\$ -		
27					\$ -			\$ -		\$ -		
28	<b>Total Bill (before Taxes)</b>				<b>\$ 187,498.60</b>			<b>\$ 186,302.80</b>		<b>-\$ 1,195.80</b>	<b>-0.64%</b>	
29	HST		13%		\$ 24,374.82	13%		\$ 24,219.36		-\$ 155.45	-0.64%	
30	<b>Total Bill (including Sub-total B)</b>				<b>\$ 211,873.42</b>			<b>\$ 210,522.16</b>		<b>-\$ 1,351.26</b>	<b>-0.64%</b>	
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 21,187.34	-10%		-\$ 21,052.22		\$ 135.13	-0.64%	
	<b>Total Bill (less OCEB)</b>				<b>\$ 190,686.08</b>			<b>\$ 189,469.94</b>		<b>-\$ 1,216.13</b>	<b>-0.64%</b>	

31 Loss Factor (%) Note 1 0.50% 0.50%

Notes:

Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

**Tax-Savings Workform**

**Interrogatory #1  
 Ref: Tax-Savings Workform, Tab 3**

Rate Group	Rate Class	Fixed Metric	Vol Metric	Re-based Billed Customers	Re-based	Re-based	Rate ReBal Base	Rate ReBal Base Distribution	Rate ReBal Base Distribution
				or Connections	Billed kWh	Billed kW	Service Charge	Volumetric Rate kWh	Volumetric Rate kW
				A	B	C			F
RES	Residential	Customer	kWh	46,238	393,848,054		14.56	0.0184	
GSLT50	General Service Less Than 50 kW	Customer	kWh	5,428	179,687,810		30.63	0.0137	
GSGT50	General Service 50 to 4,999 kW	Customer	kW	667	705,732,689	1,581,207	162.82		4.3073
LU	Large Use	Customer	kW	1	79,638,262	153,852	6,686.47		3.1991
USL	Unmetered Scattered Load	Connection	kWh	547	1,648,666		15.31	0.0190	
SL	Street Lighting	Connection	kW	13,259	7,792,006	21,835	0.33		8.3232
EMB	Embedded Distributor	Connection	kW	1	28,618,000	71,600			0.0120

**Ref: EB-2010-0144, Appendix D**

**2011 Updated Customer Class Load Forecast**

Description	Original As Per Application	As Per Settlement	Change
<b>2011 Billed kWh</b>	<b>1,373,685,721</b>	<b>1,396,965,487</b>	<b>23,279,766</b>
<b>By Class</b>			
<b>Residential</b>			
Customers	45,913	46,613	700
kWh	382,563,062	393,848,054	11,284,992
<b>GS&lt;50</b>			
Customers	5,412	5,470	58
kWh	175,321,434	179,687,810	4,366,377
<b>GS&gt;50</b>			
Customers	668	668	0
kWh	699,105,747	705,732,689	6,626,942
kW	1,566,291	1,581,207	14,915
<b>Large User</b>			
Customers	1	1	0
kWh	78,636,807	79,638,262	1,001,456
kW	148,593	153,852	5,259
<b>Streetlights</b>			
Connections	13,374	13,374	0
kWh	7,792,006	7,792,006	0
kW	21,547	21,835	289
<b>USL</b>			
Connections	551	551	0
kWh	1,648,666	1,648,666	0
<b>Embedded Distributor</b>			
Customers	1	1	0
kWh	28,618,000	28,618,000	0
kW	71,600	71,600	0

**Board staff notes that the figures in column A do not match those reported in Waterloo's previous CoS Decision (EB-2010-0144).**

**(A) If Waterloo agrees with Board staff, please confirm and Board staff will make the necessary adjustments to the model.**

Waterloo North Hydro Inc. (WNH) does not agree that changes are necessary and has provided the details in IR # 1 (B) below.

**(B) If Waterloo believes the above entered figures are correct, please provide evidence supporting these figures.**

In calculating its 2011 Cost of Service Rates (COS), WNH used the average of 2010 and 2011 customer numbers, not the 2011 year end customer numbers. WNH has reproduced the table below which details the average number of customers which is reflected in Column A of the Tax-Savings Workform. The table below was reproduced from WNH's 2011 COS Rate Design Model, which formed the basis of WNH's Draft Rate Order that was submitted to the Board on May 3, 2011 and approved by the Board on May 18, 2011 (a Corrected Rate Order was also issued on May 19, 2011 and a Revised Rate Order was issued on June 9, 2011 following WNH's Motion to Review and Vary the Rate Order, however, the customer numbers were not adjusted).

Forecast Data For 2011 Test Year Projection					
Sum of Quantity			Per Regression Model		Average
Class	Unit of Measure	2011 Test Year Normalized	2010	2011	10/11
Residential	# of Customers	46,238	45,863	46,613	46,238
	kWh	393,848,054	394,497,567	393,848,054	
GS < 50 kW	# of Customers	5,428	5,385	5,470	5,428
	kWh	179,687,810	179,691,688	179,687,810	
GS >50	# of Customers	667	665	668	667
	kW	1,581,207	1,653,058	1,581,207	
	kWh	705,732,689	717,861,720	705,732,689	
Large Use	# of Customers	1	1	1	1
	kW	153,852	148,840	153,852	
	kWh	79,638,262	78,416,825	79,638,262	
Street Lighting	# of Connections	13,259	13,144	13,374	13,259
	kW	21,835	21,257	21,835	
	kWh	7,792,006	7,666,865	7,792,006	
USL	# of Connections	547	543	551	547
	kWh	1,648,666	1,791,398	1,648,666	
Embedded Distributor	# of Customers	1		1	
	kW	71,600		71,600	
	kWh	28,618,000		28,618,000	
Total Check	# of Cust/Con	66,140	65,601	66,679	66,140
	kW	1,828,494	1,823,155	1,828,494	
	kWh	1,396,965,487	1,379,926,062	1,396,965,487	

**Interrogatory #2**  
**Ref: A portion of the Tax-Savings Workform, Tab 5**

**Summary - Sharing of Tax Change Forecast Amounts**

**For the 2011 year, enter any Tax Credits from the Cost of Service Tax Calculation (Positive #)** \$ 136,997

1. Tax Related Amounts Forecast from Capital Tax Rate Changes	2011	2012
Taxable Capital	\$ -	\$ -
Deduction from taxable capital up to \$15,000,000	\$ -	\$ -
Net Taxable Capital	\$ -	\$ -
Rate	0.000%	0.000%
Ontario Capital Tax (Deductible, not grossed-up)	\$ -	\$ -

**Board staff cannot verify the tax-credits of \$136,997 entered by Waterloo as compared with the 2011 Revenue Requirement Workform (RRWF). Board staff also notes that there is missing data in the first portion of the tax-savings workform.**

**(A) Please verify the tax-credits amount reported by Waterloo and ensure that it reconciles with the amount reported in its previous RRWF.**

WNH has reproduced below Table 8 of its Draft Rate Order which provides the Tax Credit figure of \$136,997. The Corporate PILs/Income Tax Provision Gross Up of \$1,011,845 agrees to Line 9 'Per Board Decision' on Sheet 3 of the 2011 COS RRWF.

**Table 8 of 2011 COS Draft Rate Order**

		<b>Wires Only</b>	
Regulatory Taxable Income			\$ 3,183,170 A
Ontario Income Taxes			
Income Tax Payable	Ontario Income Tax	11.75% B	\$374,022 C = A * B
Combined Tax Rate and PILs	Effective Ontario Tax Rate	11.75%	D = C / A
	Federal Tax Rate	16.50%	E
	Combined Tax Rate		28.25% F = D + E
Total Income Taxes			\$ 899,245 G = A * F
Reduction due to Ontario Small Business Threshold			\$ 36,250 H
Miscellaneous Tax Credits			\$ 136,997 I
Total Reductions			\$ 173,247 J = H + I
Corporate PILs/Income Tax Provision for Test Year			\$ 725,998 K = G - J
Corporate PILs/Income Tax Provision Gross Up		71.75%	1,011,845 M = K / L

**(B) Please re-file tab 5 of the tax-savings workform ensuring to include the above missing data with those numbers reported in Waterloo's EB-2011-0144 final RRWF.**

WNH did not have any Ontario Capital Tax included in its 2011 COS Rates, thus, the top portion of tab 5 is correct when \$0.00 are shown. The table provided in IR # 2 (A) details the PILs include in rates and demonstrates that Ontario Capital Tax in not included in the calculation. WNH also notes that Sheet 3, Line 23, of the RRWF reflects \$0 in Capital Taxes.

**RTSR Workform**

**Interrogatory #3**

**Ref: RTSR Workform, Tab 4**

Rate Class	Unit	Non-Loss Adjusted Metered kWh	Non-Loss Adjusted Metered kW	Applicable Loss Factor	Load Factor	Loss Adjusted Billed kWh	Billed kW
Residential	kWh	393,248,054		1.0404		409,759,515	-
General Service Less Than 50 kW	kWh	179,687,510		1.0404		186,947,198	-
General Service 50 to 999 kW	kW	141,818,044	405,419		47.84%	141,818,044	405,419
General Service 50 to 999 kW - Interval Meters	kW	314,724,309	719,366		68.88%	314,724,309	719,366
General Service 1,000 to 4,999 kW - Interval Meters	kW	249,190,336	456,422		74.83%	249,190,336	456,422
Large Use	kW	79,638,262	153,852		70.86%	79,638,262	153,852
Unmetered Scattered Load	kWh	1,648,886		1.0404		1,715,272	-
Street Lighting	kW	7,792,006	21,835		48.91%	7,792,006	21,835
Embedded Distributor	kW	28,618,000	71,600		64.78%	28,618,000	71,600

**Board staff notes that “Non-Loss Adjusted Metered kWh” and “Non-Loss Adjusted Metered kW” does not match Waterloo’s most recently reported 2.1.5 RRR filings.**

**(A) If Waterloo agrees, please confirm, and Board staff will make the necessary adjustments using those figures reported by Waterloo for its RRR 2.1.5 filings.**

WNH has not included the 2010 2.1.5 RRR filing billing information as it has provided the 2011 Cost of Service billing detail which is consistent with Sheet 10 of the Rate Generator Model. Sheet 10 of the Rate Generator Model states *“In the green shaded cells, enter the most recent Board Approved volumetric forecast. If there is a material difference between the latest Board-approved volumetric forecast and the most recent 12-month actual volumetric data, use the most recent 12-month actual data.”* WNH submits that providing the same kWh or kW allocation for both the rate riders and RTSR maintains a level of consistency.

WNH has selected the 2011 COS load forecast as the most representative for this filing, as a new rate class, Embedded Distributor, was created during this rate filing. If WNH had used the 2010 2.1.5 RRR billing information, it would be overstating the billing data in the General Service > 50 kW rate class and would also be allocating RTSR rates based on consumption for 2010, which was prior to the year’s consumption (2011 weather normalized forecast) in which the May 1, 2011 rates were calculated and approved.



**(B) If the answer to (A) is no, please provide evidence for the numbers entered above.**

The numbers included in the RTSR model agree to the table provided by Board Staff in IR # 1 and WNH's response in IR # 1 (B). WNH has provided a table below which demonstrates that the three sub-classes for RTSR for the General Service > 50 kW rate class is in total the same as the tables referred to in this IR response.

General Service > 50kW Class	kWh	kW
GS 50 - 999 kW	141,818,044	405,419
GS 50 - 999 kW - Interval Metered	314,724,309	719,366
GS 1,000 - 4,999 kW - Interval Metered	249,190,336	456,422
<b>Total</b>	<b>705,732,689</b>	<b>1,581,207</b>

**(C) Please confirm that Waterloo's reported 2.1.5 RRR filings for column A are non-loss adjusted.**

WNH confirms that the kWh provided are non-loss adjusted.

## Rate Generator

### Interrogatory #4

Ref: A portion of the 2012 IRM Rate Generator, Tab 6

Embedded Distributor		
Rate Rider for Global Adjustment Sub-Account (2010) - Applicable only for Non-RPP Customers	\$/kW	0.12970
Rate Rider for Global Adjustment Sub-Account (2011) - Applicable only for Non-RPP Customers	\$/kW	0.27956
Rate Rider for Deferral/Variance Account Disposition (2010)	\$/kW	(1.10630)
Rate Rider for Deferral/Variance Account Disposition (2011)	\$/kW	(0.06474)
Rate Rider for Foregone/Incremental Revenue	\$/kW	0.00110
Rate Rider for Capital Gain	\$/kW	(0.00020)

**Board staff notes that the line item charges for "Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers" and "Rate Rider for Deferral/Variance Account Disposition (2010)" for the Embedded Distributor rate class appear to have been transposed.**

**(A) If Waterloo agrees, please confirm, and Board staff will make the necessary corrections to the model.**

WNH does not confirm and has provided details below.

**(B) If the answer to (A) is no, please provide an explanation for the reported riders.**

The Board issued a Revised Rate Order on June 9, 2011 under EB-2011-0221, in which the rate riders in the Board Staff table above were approved. This rate order was issued upon WNH's Motion to Review and Vary the Rate Order, as the two rate riders noted by Board Staff had previously been reversed.

**Interrogatory #5**  
**Ref: A portion of the 2012 IRM Rate Generator, Tab 10**

Rate Class	Unit	Metered kWh	Metered kW	Billed kWh for Non-RPP Customers	Estimated kW for Non-RPP Customers	Distribution Revenue <sup>1</sup>	1590 Recovery Share Proportion <sup>*</sup>	1595 Recovery Share Proportion (2008) <sup>2</sup>	1595 Recovery Share Proportion (2009) <sup>2</sup>
Residential	\$/kWh	393,948,054		47,531,182	-	15,308,033			
General Service Less Than 50 KW	\$/kWh	179,687,810		27,737,012	-	4,381,714			
General Service 50 to 4,399 KW	\$/kW	705,732,639	1,581,207	679,930,260	1,523,396	7,515,601			
Large Use	\$/kW	79,638,292	153,852	82,967,618	160,284	572,427			
Unmetered Scattered Load	\$/kWh	1,648,666		434,100	-	131,778			
Street Lighting	\$/kW	7,792,006	21,835	7,693,361	21,559	234,246			
Embedded Distributor	\$/kW	28,618,000	71,600	31,983,034	80,019	857			
<b>Total</b>		<b>1,396,965,467</b>	<b>1,828,494</b>	<b>878,275,568</b>	<b>1,785,257</b>	<b>28,144,657</b>	<b>0%</b>	<b>0%</b>	<b>0%</b>

**Board staff has been unable to reconcile the figures entered for “Distribution Revenue” for each rate class to Waterloo’s previous Cost of Service proceeding (EB-2010-0144).**

**(A) If the above entered figures are incorrect, please identify the correct numbers, and Board staff will make the necessary adjustments.**

WNH has used the 2011 COS Base Revenue Requirement, which does not include Transformer Allowance, nor Low Voltage Charges.

**(B) If the above entered figures are correct, please provide evidence supporting the above figures.**

WNH has reproduced Table 5 from its Draft Rate Order in which the Base Revenue Requirement of \$28,144,657 is detailed. WNH has also inserted a column into Table 2.9b of the Manager’s Summary of October 26, 2011, which provides the Distribution Revenue by Rate Class and has provided the table below.

**Table 5 of 2011 COS Draft Rate Order**

Description	Settlement Agreement	Draft Rate Order
OM&A Expenses	10,014,338	10,039,282
Amortization Expenses	7,749,422	7,749,422
<b>Total Distribution Expenses</b>	<b>17,763,759</b>	<b>17,788,703</b>
Regulated Rate of Return	10,344,810	10,345,067
PILs	1,011,788	1,011,845
<b>Service Revenue Requirement</b>	<b>29,120,358</b>	<b>29,145,614</b>
Less: Revenue Offsets	(1,000,957)	(1,000,957)
<b>Base Revenue Requirements</b>	<b>28,119,401</b>	<b>28,144,657</b>
Transformer Discounts	672,628	672,628
<b>Gross Revenue Requirement for Rates</b>	<b>28,792,029</b>	<b>28,817,286</b>

### Adjusted Table 2.9b of Manager's Summary of October 26, 2011

Distribution Rate Allocation Between Fixed & Variable Rates For 2011 Test Year

Customer Class	Total Net Rev. Requirement	Rev Requirement %	Proposed Fixed Rate	Resulting Variable Rate	Total Fixed Revenue	Total Variable Revenue	Total before Trans Allow & LV	Transformer Allowance	Gross Distribution Revenue	LV & Wheeling Charges	Total
Residential	15,308,033	54.39%	14.56	\$0.0184	\$ 8,078,703	\$ 7,229,330	\$ 15,308,033	\$ 478	15,308,512	48,555	15,357,067
GS < 50 kW	4,381,714	15.57%	30.63	\$0.0137	\$ 1,994,949	\$ 2,386,764	\$ 4,381,714	\$ 74,612	4,456,326	19,937	4,476,263
GS >50	7,515,601	26.70%	162.82	\$4.3073	\$ 1,302,476	\$ 6,213,125	\$ 7,515,601	\$ 597,538	8,113,140	87,079	8,200,218
Large Use	572,427	2.03%	6,686.47	\$3.1991	\$ 80,238	\$ 492,189	\$ 572,427	\$ -	572,427	8,501	580,928
Sentinel Lights	0	0.00%	0.00	\$0.0000	\$ -	\$ -	\$ -				
Street Lighting	234,246	0.83%	0.33	\$8.3232	\$ 52,506	\$ 181,740	\$ 234,246		234,246	744	234,990
USL	131,778	0.47%	15.31	\$0.0190	\$ 100,499	\$ 31,280	\$ 131,778		131,778	183	131,961
Embedded Distributor	857	0.00%	0.00	\$0.0120	\$ -	\$ 857	\$ 857		857	0	857
<b>TOTAL</b>	<b>28,144,657</b>	<b>100.00%</b>			<b>\$ 11,609,372</b>	<b>\$ 16,535,285</b>	<b>\$ 28,144,657</b>	<b>\$ 672,628</b>	<b>\$ 28,817,286</b>	<b>\$ 165,000</b>	<b>\$ 28,982,286</b>

**Interrogatory #6**

Ref: 2012 IRM Rate Generator, Tab 12

Ref: EB-2011-0201 Manager's Summary, Page 10

Board staff notes that Waterloo has requested a 4 year disposition period in the repayment of its Group 1 Deferral and Variance Account balances.

(A) Please provide alternative calculations of rate riders and bill impacts representing a disposition period of 1 and 2 years.

A table which summarizes the dollar and percentage impact of each of the three disposition periods is provided in Table IR # 6 (A) below. WNH notes that all the rate riders which WNH proposed in its Application are included in the calculation on a one, two or four year recovery period, namely Group 1 Deferral and Variance Accounts, PILs 1562, SPC and LRAM. WNH has provided its rationale for a four year disposition period on pages one through ten of this response.

**Table IR # 6 (A) Summary of Three Disposition Periods**

Rate Class	Monthly Consumption kWh    kW		4 Year		1 Year				2 Year			
			WNH Application		IR # 6				IR # 6			
			\$ (Decrease) on Total Bill	% (Decrease) on Total Bill	\$ (Decrease) on Total Bill	% (Decrease) on Total Bill	\$ Change vs 4 Years	% Change vs 4 Years	\$ (Decrease) on Total Bill	% (Decrease) on Total Bill	\$ Change vs 4 Years	% Change vs 4 Years
Residential	800		(1.17)	-1.08%	(3.45)	-3.19%	(2.28)	-2.11%	(1.99)	-1.84%	(0.82)	-0.76%
GS < 50 kW	2,000		(2.30)	-0.89%	(6.97)	-2.69%	(4.67)	-1.80%	(3.72)	-1.43%	(1.42)	-0.55%
GS > 50 kW	100,000	250	(71.81)	-0.69%	(280.84)	-2.69%	(209.03)	-2.00%	(141.51)	-1.35%	(69.70)	-0.67%
Large User	7,000,000	12,300	(3,815.93)	-0.58%	(14,995.30)	-2.27%	(11,179.38)	-1.69%	(7,542.39)	-1.14%	(3,726.46)	-0.56%
USL	250		(0.71)	-1.58%	(1.76)	-3.90%	(1.04)	-2.32%	(1.06)	-2.36%	(0.35)	-0.78%
Street Light	50	0.14	(0.07)	-1.14%	(0.20)	-3.13%	(0.13)	-1.99%	(0.11)	-1.70%	(0.04)	-0.57%
Embedded Distributor	2,375,000	6,000	(1,216.13)	-0.64%	(4,844.99)	-2.54%	(3,628.85)	-1.90%	(2,425.55)	-1.27%	(1,209.41)	-0.63%

WNH has provided alternative calculations of the rate rider calculations as Table IR # 6 (A)(i) for a disposition period of 1 year and Table IR # 6 (A)(iii) for a disposition period of 2 years. WNH has provided alternative calculations of the bill impacts as Table IR # 6 (A)(ii) for a disposition period of 1 year and Table IR # 6 (A)(iv) for a disposition period of 2 years.

### Table IR # 6 (A)(i) Rate Riders 1 Year Disposition

Please indicate the Rate Rider Recovery Period   
 (in years)

Rate Class	Unit	Billed kWh	Billed kW	Accounts Allocated by kWh/kW (RPP) or Distribution Revenue	Deferral/Variance Account Rate Rider	Account 1588 Global Adjustment	Billed kWh or Estimated kW for Non-RPP	Global Adjustment Rate Rider		
Residential	\$/kWh	393,848,054	-	1,461,343	(\$0.00371)	-\$	13,412	47,531,182	(\$0.00028)	\$/kWh
General Service Less Than 50 kW	\$/kWh	179,687,810	-	551,019	(\$0.00307)	-\$	7,827	27,737,012	(\$0.00028)	\$/kWh
General Service 50 to 4,999 kW	\$/kW	705,732,689	1,581,207	1,733,177	(\$1.09611)	-\$	191,860	1,523,396	(\$0.12594)	\$/kW
Large Use	\$/kW	79,638,262	153,852	183,324	(\$1.19156)	-\$	23,411	160,284	(\$0.14606)	\$/kW
Unmetered Scattered Load	\$/kWh	1,648,666	-	9,127	(\$0.00554)	-\$	122	434,100	(\$0.00028)	\$/kWh
Street Lighting	\$/kW	7,792,006	21,835	25,861	(\$1.18438)	-\$	2,171	21,559	(\$0.10070)	\$/kW
Embedded Distributor	\$/kW	28,618,000	71,600	56,770	(\$0.79288)	-\$	9,025	80,019	(\$0.11278)	\$/kW
<b>Total</b>		<b>1,396,965,487</b>	<b>1,828,494</b>	<b>4,020,621</b>		<b>-\$</b>	<b>247,829</b>			

The following table provides the Proposed Rate Riders with a 1 Year Disposition Period.

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
 Effective Date May 1, 2012  
 Implementation Date May 1, 2012

This schedule supersedes and replaces all previously approved schedules of Rates, Charges and Loss Factors  
 Fuschia denotes change due to disposition period changed to 1 year from 4 years

EB-2011-0201

**Def/Var for Rate  
Impact Sheet**

**RESIDENTIAL SERVICE CLASSIFICATION**

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	14.59	
Smart Meter Funding Adder	\$	1.00	
Distribution Volumetric Rate	\$/kWh	0.0184	
Low Voltage Service Rate - Effective Until	\$/kWh	0.0001	
Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers - Effective Until	\$/kWh	0.0003	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until	\$/kWh	0.00072	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kWh	-0.0027	<b>-0.0027</b>
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kWh	-0.00003	<b>-0.00003</b>
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recovery - Effective Until April 30, 2015	\$/kWh	0.0002	
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kWh	-0.0007	
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recovery (2012) - Effective Until April 30, 2016	\$/kWh	0.00005	
Rate Rider for Tax Change - Effective Until April 30, 2013	\$/kWh	-0.0001	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kWh	-0.0037	<b>-0.0037</b>
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kWh	-0.0003	<b>-0.00643</b>
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0068	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0023	

**MONTHLY RATES AND CHARGES – Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0052	
Rural Rate Protection Charge	\$/kWh	0.0013	
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25	

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
 Effective Date May 1, 2012  
 Implementation Date May 1, 2012

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**GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION**

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	30.69	
Smart Meter Funding Adder	\$	1.00	
Distribution Volumetric Rate	\$/kWh	0.0137	
Low Voltage Service Rate - Effective Until	\$/kWh	0.0001	
Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers - Effective Until	\$/kWh	0.0003	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until	\$/kWh	0.00072	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kWh	-0.0027	<b>-0.0027</b>
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kWh	-0.00003	<b>-0.00003</b>
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recc	\$/kWh	0.0001	
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kWh	-0.0004	
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recc	\$/kWh	0.00006	
Rate Rider for Tax Change - Effective Until April 30, 2013	\$/kWh	-0.0001	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kWh	-0.0031	<b>-0.0031</b>
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kWh	-0.0003	<b>-0.00583</b>
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0062	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0021	

**MONTHLY RATES AND CHARGES – Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0052	
Rural Rate Protection Charge	\$/kWh	0.0013	
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25	

## Waterloo North Hydro Inc. TARIFF OF RATES AND CHARGES

Effective Date May 1, 2012  
Implementation Date May 1, 2012

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### GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION

#### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	138.76	
Smart Meter Funding Adder	\$	1.00	
Distribution Volumetric Rate	\$/kW	4.4369	
Low Voltage Service Rate - Effective Until	\$/kW	0.0551	
Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.1297	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.27956	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kW	-1.1063	-1.1063
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kW	-0.06474	-0.06474
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recc	\$/kW	0.1495	
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kW	-0.0866	
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recc	\$/kW	0.00527	
Rate Rider for Tax Change - Effective Until April 30, 2013	\$/kW	-0.011	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kW	-1.0961	-1.0961
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kW	-0.1259	-2.26714
Retail Transmission Rate – Network Service Rate – (less than 1,000 kW)	\$/kW	2.5268	
Retail Transmission Rate – Network Service Rate – Interval Metered (less than 1,000 kW)	\$/kW	2.6838	
Retail Transmission Rate – Network Service Rate – Interval Metered (1,000 to 4,999 kW)	\$/kW	2.6803	
Retail Transmission Rate – Line and Transformation Connection Service Rate – (less than 1,000 kW)	\$/kW	0.8012	
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered (1,000 to 4,999 k	\$/kW	0.9996	
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered (less than 1,000 k	\$/kW	1.0008	

#### MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

## Waterloo North Hydro Inc. TARIFF OF RATES AND CHARGES

Effective Date May 1, 2012  
Implementation Date May 1, 2012

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### LARGE USE SERVICE CLASSIFICATION

#### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	6698.51	
Smart Meter Funding Adder	\$	1.00	
Distribution Volumetric Rate	\$/kW	3.2049	
Low Voltage Service Rate - Effective Until	\$/kW	0.0553	
Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.162	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.35873	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kW	-1.3863	-1.3863
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kW	-0.09798	-0.09798
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kW	-0.0678	
Rate Rider for Tax Change - Effective Until April 30, 2013	\$/kW	-0.0079	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kW	-1.1916	-1.1916
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kW	-0.1461	-2.67588
Retail Transmission Rate – Network Service Rate – Interval Metered	\$/kW	2.9714	
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	\$/kW	1.0042	

#### MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
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**Implementation Date May 1, 2012**

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**UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION**

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge (per connection)	\$	15.34	
Distribution Volumetric Rate	\$/kWh	0.019	
Low Voltage Service Rate - Effective Until	\$/kWh	0.0001	
Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers - Effective Until	\$/kWh	0.0003	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until	\$/kWh	0.00072	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kWh	-0.0027	<b>-0.0027</b>
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kWh	0.00067	<b>0.00067</b>
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recc	\$/kWh	0.0048	
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kWh	-0.0015	
Rate Rider for Tax Change - Effective Until April 30, 2013	\$/kWh	-0.0002	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kWh	-0.0055	<b>-0.0055</b>
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kWh	-0.0003	<b>-0.00753</b>
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0062	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0021	

**MONTHLY RATES AND CHARGES – Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
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**Effective Date May 1, 2012**  
**Implementation Date May 1, 2012**

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EB-2011-0201

**STREET LIGHTING SERVICE CLASSIFICATION**

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge (per connection)	\$	0.33	
Distribution Volumetric Rate	\$/kW	8.3382	
Low Voltage Service Rate - Effective Until	\$/kW	0.0341	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.10098	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kW	-0.9707	<b>-0.9707</b>
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kW	0.02857	<b>0.02857</b>
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recc	\$/kW	0.2475	
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kW	-0.1959	
Rate Rider for Tax Change - Effective Until April 30, 2013	\$/kW	-0.0229	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kW	-1.1844	<b>-1.1844</b>
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kW	-0.1007	<b>-2.12653</b>
Retail Transmission Rate – Network Service Rate	\$/kW	1.9058	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	0.6193	

**MONTHLY RATES AND CHARGES – Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
**Effective Date May 1, 2012**  
**Implementation Date May 1, 2012**

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

EB-2011-0201

**EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION**

**MONTHLY RATES AND CHARGES - Delivery Component**

Distribution Volumetric Rate	\$/kW	0.012	
Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.1297	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.27956	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kW	-1.1063	<b>-1.1063</b>
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kW	-0.06474	<b>-0.06474</b>
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kW	-0.0002	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kW	-0.7929	<b>-0.7929</b>
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kW	-0.1125	<b>-1.96394</b>

**MONTHLY RATES AND CHARGES – Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25



### Table IR # 6 (A)(ii) Rate Riders 1 Year Disposition Rate Impacts

Customer Class: **Residential**

Consumption **800 kWh**

	Charge Unit	Current Board-Approved			Proposed			Impact		
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	\$ 14.5600	1	\$ 14.56	\$ 14.5900	1	\$ 14.59	\$ 0.03	0.21%
2	Smart Meter Rate Adder	monthly	\$ 1.0000	1	\$ 1.00	\$ 1.0000	1	\$ 1.00	\$ -	0.00%
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kWh	\$ 0.0184	800	\$ 14.72	\$ 0.0184	800	\$ 14.72	\$ -	0.00%
6	Low Voltage Rate Adder	per kWh	\$ 0.0001	800	\$ 0.08	\$ 0.0001	800	\$ 0.08	\$ -	0.00%
7	Volumetric Rate Adder(s)			800	\$ -		800	\$ -	\$ -	
8	Volumetric Rate Rider(s)			800	\$ -		800	\$ -	\$ -	
9	Smart Meter Disposition Rider			800	\$ -		800	\$ -	\$ -	
10	LRAM & SSM Rate Rider	per kWh	\$ 0.0002	800	\$ 0.16	\$ 0.0003	800	\$ 0.20	\$ 0.04	25.00%
11	Deferral/Variance Account Disposition Rate Rider	per kWh	-\$ 0.00273	800	-\$ 2.18	-\$ 0.00643	800	-\$ 5.14	-\$ 2.96	135.53%
12	LPP Rate Rider	monthly	\$ 0.1900	1	\$ 0.19		1	\$ -	-\$ 0.19	-100.00%
13	Capital Gains Rate Rider	per kWh	-\$ 0.0007	800	-\$ 0.56	-\$ 0.0007	800	-\$ 0.56	\$ -	0.00%
14	Foregone Revenue Rate Rider	per kWh	\$ 0.0005	800	\$ 0.40		800	\$ -	-\$ 0.40	-100.00%
15	Tax Change Rate Rider	per kWh	\$ -	800	\$ -	-\$ 0.0001	800	-\$ 0.08	-\$ 0.08	
16	<b>Sub-Total A - Distribution</b>				<b>\$ 28.37</b>			<b>\$ 24.81</b>	<b>-\$ 3.56</b>	<b>-12.55%</b>
17	RTSR - Network	per kWh	\$ 0.0067	832.32	\$ 5.58	\$ 0.0068	832.32	\$ 5.66	\$ 0.08	1.49%
18	RTSR - Line and Transformation Connection	per kWh	\$ 0.0022	832.32	\$ 1.83	\$ 0.0023	832.32	\$ 1.91	\$ 0.08	4.55%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 35.77</b>			<b>\$ 32.38</b>	<b>-\$ 3.39</b>	<b>-9.49%</b>
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	832.32	\$ 4.33	\$ 0.0052	832.32	\$ 4.33	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	832.32	\$ 1.08	\$ 0.0013	832.32	\$ 1.08	\$ -	0.00%
22	Special Purpose Charge	per kWh		832.32	\$ -		832.32	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	800	\$ 5.60	\$ 0.0070	800	\$ 5.60	\$ -	0.00%
25	Energy First Block	per kWh	\$ 0.06800	600	\$ 40.80	\$ 0.06800	600	\$ 40.80	\$ -	0.00%
26	Energy Second Block	per kWh	\$ 0.0790	232.32	\$ 18.35	\$ 0.0790	232.32	\$ 18.35	\$ -	0.00%
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				<b>\$ 106.19</b>			<b>\$ 102.79</b>	<b>-\$ 3.39</b>	<b>-3.20%</b>
29	HST		13%		\$ 13.80	13%		\$ 13.36	-\$ 0.44	-3.20%
30	<b>Total Bill (including Sub-total B)</b>				<b>\$ 119.99</b>			<b>\$ 116.16</b>	<b>-\$ 3.83</b>	<b>-3.19%</b>
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 12.00	-10%		-\$ 11.62	\$ 0.38	-3.19%
	<b>Total Bill (less OCEB)</b>				<b>\$ 107.99</b>			<b>\$ 104.54</b>	<b>-\$ 3.45</b>	<b>-3.19%</b>

31 Loss Factor (%) Note 1 4.04% 4.04%

**Notes:**

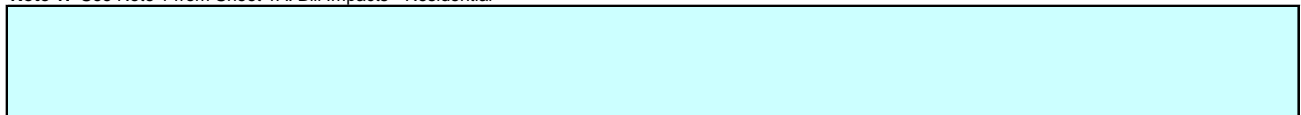
Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

General Service < 50 kW										
Consumption		2,000 kWh								
	Charge Unit	Current Board-Approved			Proposed			Impact		
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	\$ 30.6300	1	\$ 30.63	\$ 30.6900	1	\$ 30.69	\$ 0.06	0.20%
2	Smart Meter Rate Adder	monthly	\$ 1.0000	1	\$ 1.00	\$ 1.0000	1	\$ 1.00	\$ -	0.00%
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kWh	\$ 0.0137	2000	\$ 27.40	\$ 0.0137	2000	\$ 27.40	\$ -	0.00%
6	Low Voltage Rate Adder	per kWh	\$ 0.0001	2000	\$ 0.20	\$ 0.0001	2000	\$ 0.20	\$ -	0.00%
7	Volumetric Rate Adder(s)			2000	\$ -		2000	\$ -	\$ -	
8	Volumetric Rate Rider(s)			2000	\$ -		2000	\$ -	\$ -	
9	Smart Meter Disposition Rider			2000	\$ -		2000	\$ -	\$ -	
10	LRAM & SSM Rider	per kWh	\$ 0.0001	2000	\$ 0.20	\$ 0.0002	2000	\$ 0.32	\$ 0.12	60.00%
11	Deferral/Variance Account Disposition Rate Rider	per kWh	-\$ 0.00273	2000	-\$ 5.46	-\$ 0.00583	2000	-\$ 11.66	-\$ 6.20	113.55%
12	LPP Rate Rider	monthly	\$ 0.4500	1	\$ 0.45			\$ -	-\$ 0.45	-100.00%
13	Capital Gains Rate Rider	per kWh	-\$ 0.0004	2,000	-\$ 0.80	-\$ 0.0004	2000	-\$ 0.80	\$ -	0.00%
14	Foregone Revenue Rate Rider	per kWh	\$ 0.0003	2,000	\$ 0.60			\$ -	-\$ 0.60	-100.00%
15	Tax Change Rate Rider				\$ -		2,000	-\$ 0.20	-\$ 0.20	
16	<b>Sub-Total A - Distribution</b>				<b>\$ 54.22</b>			<b>\$ 46.95</b>	<b>-\$ 7.27</b>	<b>-13.41%</b>
17	RTSR - Network	per kWh	\$ 0.0061	2080.8	\$ 12.69	\$ 0.0062	2080.8	\$ 12.90	\$ 0.21	1.64%
18	RTSR - Line and Transformation Connection	per kWh	\$ 0.0020	2080.8	\$ 4.16	\$ 0.0021	2080.8	\$ 4.37	\$ 0.21	5.00%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 71.07</b>			<b>\$ 64.22</b>	<b>-\$ 6.85</b>	<b>-9.64%</b>
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	2080.8	\$ 10.82	\$ 0.0052	2080.8	\$ 10.82	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	2080.8	\$ 2.71	\$ 0.0013	2080.8	\$ 2.71	\$ -	0.00%
22	Special Purpose Charge	per kWh		2080.8	\$ -		2080.8	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	2000	\$ 14.00	\$ 0.0070	2000	\$ 14.00	\$ -	0.00%
25	Energy First Block	per kWh	\$ 0.06800	750	\$ 51.00	\$ 0.06800	750	\$ 51.00	\$ -	0.00%
26	Energy Second Block	per kWh	\$ 0.0790	1330.8	\$ 105.13	\$ 0.0790	1330.8	\$ 105.13	\$ -	0.00%
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				<b>\$ 254.98</b>			<b>\$ 248.13</b>	<b>-\$ 6.85</b>	<b>-2.69%</b>
29	HST		13%		\$ 33.15	13%		\$ 32.26	-\$ 0.89	-2.69%
30	<b>Total Bill (including Sub-total B)</b>				<b>\$ 288.13</b>			<b>\$ 280.39</b>	<b>-\$ 7.74</b>	<b>-2.69%</b>
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 28.81	-10%		-\$ 28.04	\$ 0.77	-2.69%
	<b>Total Bill (less OCEB)</b>				<b>\$ 259.32</b>			<b>\$ 252.35</b>	<b>-\$ 6.97</b>	<b>-2.69%</b>

31 Loss Factor Note 1 4.04% 4.04%

Notes:

Note 1: See Note 1 from Sheet 1A. Bill Impacts - Residential



General Service > 50 kW										
Consumption	250 kW		Proposed			Impact				
	100,000	kWh	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
	Current Board-Approved			Proposed						
1 Monthly Service Charge	monthly	\$ 162.82	1	\$ 162.82	\$ 138.76	1	\$ 138.76	-\$ 24.06	-14.78%	
2 Smart Meter Rate Adder	monthly	\$ 1.0000	1	\$ 1.00	\$ 1.0000	1	\$ 1.00	\$ -	0.00%	
3 Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -		
4 Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -		
5 Distribution Volumetric Rate	per kW	\$ 4.3073	250	\$ 1,076.83	\$ 4.4369	250	\$ 1,109.23	\$ 32.40	3.01%	
6 Low Voltage Rate Adder	per kW	\$ 0.0551	250	\$ 13.78	\$ 0.0551	250	\$ 13.78	\$ -	0.00%	
7 Volumetric Rate Adder(s)			250	\$ -		250	\$ -	\$ -		
8 Volumetric Rate Rider(s)			250	\$ -		250	\$ -	\$ -		
9 Smart Meter Disposition Rider			250	\$ -		250	\$ -	\$ -		
10 LRAM & SSM Rate Rider	per kW	\$ 0.1495	250	\$ 37.38	\$ 0.1548	250	\$ 38.69	\$ 1.32	3.53%	
11 Deferral/Variance Account Disposition Rate Rider	per kW	-\$ 1.17104	250	-\$ 292.76	-\$ 2.26714	250	-\$ 566.79	-\$ 274.03	93.60%	
12 LPP Rate Rider	monthly	\$ 6.6700	1	\$ 6.67		1	\$ -	-\$ 6.67	-100.00%	
13 Capital Gains Rate Rider	per kW	-\$ 0.0866	250	-\$ 21.65	-\$ 0.0866	250	-\$ 21.65	\$ -	0.00%	
14 Foregone Revenue Rate Rider	per kW	\$ 0.0584	250	\$ 14.60		250	\$ -	-\$ 14.60	-100.00%	
15 Low Voltage Rate Rider	per kW	\$ 0.0023	250	\$ 0.58		250	\$ -	-\$ 0.58	-100.00%	
15 Tax Change Rate Rider	per kW				-\$ 0.0110	250	-\$ 2.75	-\$ 2.75		
16 Sub-Total A - Distribution				\$ 999.23			\$ 710.27	-\$ 288.96	-28.92%	
17 RTSR - Network	per kW	\$ 2.4945	250	\$ 623.63	\$ 2.5268	250	\$ 631.70	\$ 8.08	1.29%	
18 RTSR - Line and Transformation Connection	per kW	\$ 0.7822	250	\$ 195.55	\$ 0.8012	250	\$ 200.30	\$ 4.75	2.43%	
19 Sub-Total B - Delivery (including Sub-Total A)				\$ 1,818.41			\$ 1,542.27	-\$ 276.14	-15.19%	
20 Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	104,040	\$ 541.01	\$ 0.0052	104,040	\$ 541.01	\$ -	0.00%	
21 Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	104,040	\$ 135.25	\$ 0.0013	104,040	\$ 135.25	\$ -	0.00%	
22 Special Purpose Charge	per kWh		104,040	\$ -		104,040	\$ -	\$ -		
23 Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	
24 Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	100,000	\$ 700.00	\$ 0.0070	100,000	\$ 700.00	\$ -	0.00%	
25 Energy	per kWh	\$ 0.06800	104,040	\$ 7,074.72	\$ 0.06800	104,040	\$ 7,074.72	\$ -	0.00%	
26				\$ -			\$ -	\$ -		
27				\$ -			\$ -	\$ -		
28 Total Bill (before Taxes)				\$ 10,269.64			\$ 9,993.50	-\$ 276.14	-2.69%	
29 HST		13%		\$ 1,335.05	13%		\$ 1,299.15	-\$ 35.90	-2.69%	
30 Total Bill (including Sub-total B)				\$ 11,604.69			\$ 11,292.65	-\$ 312.04	-2.69%	
Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 1,160.47	-10%		-\$ 1,129.27	\$ 31.20	-2.69%	
Total Bill (less OCEB)				\$ 10,444.22			\$ 10,163.39	-\$ 280.84	-2.69%	

31 Loss Factor (%) Note 1 4.04% 4.04%

Notes:

Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

Large Use										
Consumption	12,300 kW		7,000,000 kWh							
	Charge Unit	Current Board-Approved			Proposed			Impact		
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	\$ 6,686.47	1	\$ 6,686.47	\$ 6,698.51	1	\$ 6,698.51	\$ 12.04	0.18%
2	Smart Meter Rate Adder	monthly	\$ 1.0000	1	\$ 1.00	\$ 1.0000	1	\$ 1.00	\$ -	0.00%
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kW	\$ 3.1991	12,300	\$ 39,348.93	\$ 3.2049	12,300	\$ 39,420.27	\$ 71.34	0.18%
6	Low Voltage Rate Adder	per kW	\$ 0.0553	12,300	\$ 680.19	\$ 0.0553	12,300	\$ 680.19	\$ -	0.00%
7	Volumetric Rate Adder(s)			12,300	\$ -		12,300	\$ -	\$ -	
8	Volumetric Rate Rider(s)			12,300	\$ -		12,300	\$ -	\$ -	
9	Smart Meter Disposition Rider			12,300	\$ -		12,300	\$ -	\$ -	
10	LRAM & SSM Rate Rider	per kW	\$ -	12,300	\$ -	\$ -	12,300	\$ -	\$ -	
11	Deferral/Variance Account Disposition Rate Rider	per kW	-\$ 1.48428	12,300	-\$ 18,256.64	-\$ 2.67588	12,300	-\$ 32,913.32	-\$ 14,656.68	80.28%
12	LPP Rate Rider	monthly	\$ 251.3000	1	\$ 251.30			\$ -	-\$ 251.30	-100.00%
13	Capital Gains Rate Rider	per kW	-\$ 0.0678	12,300	-\$ 833.94	-\$ 0.0678	12,300	-\$ 833.94	\$ -	0.00%
14	Foregone Revenue Rate Rider	per kW	\$ 0.0457	12,300	\$ 562.11			\$ -	-\$ 562.11	-100.00%
	Tax Change Rate Rider	per kW			\$ -	-\$ 0.0079	12,300	-\$ 97.17	-\$ 97.17	
15	Low Voltage Rate Rider	per kW	\$ 0.0016	12,300	\$ 19.68			\$ -	-\$ 19.68	-100.00%
16	<b>Sub-Total A - Distribution</b>				<b>\$ 28,459.10</b>			<b>\$ 12,955.54</b>	<b>-\$ 15,503.56</b>	<b>-54.48%</b>
17	RTSR - Network	per kW	\$ 2.9335	12,300	\$ 36,082.05	\$ 2.9714	12,300	\$ 36,548.22	\$ 466.17	1.29%
18	RTSR - Line and Transformation Connection	per kW	\$ 0.9804	12,300	\$ 12,058.92	\$ 1.0042	12,300	\$ 12,351.66	\$ 292.74	2.43%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 76,600.07</b>			<b>\$ 61,855.42</b>	<b>-\$ 14,744.65</b>	<b>-19.25%</b>
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	7,035,000	\$ 36,582.00	\$ 0.0052	7,035,000	\$ 36,582.00	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	7,035,000	\$ 9,145.50	\$ 0.0013	7,035,000	\$ 9,145.50	\$ -	0.00%
22	Special Purpose Charge	per kWh		7,035,000	\$ -		7,035,000	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	7,000,000	\$ 49,000.00	\$ 0.0070	7,000,000	\$ 49,000.00	\$ -	0.00%
25	Energy	per kWh	\$ 0.06800	7,035,000	\$ 478,380.00	\$ 0.06800	7,035,000	\$ 478,380.00	\$ -	0.00%
26					\$ -			\$ -	\$ -	
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				<b>\$ 649,707.82</b>			<b>\$ 634,963.17</b>	<b>-\$ 14,744.65</b>	<b>-2.27%</b>
29	HST		13%		\$ 84,462.02	13%		\$ 82,545.21	-\$ 1,916.80	-2.27%
30	<b>Total Bill (including Sub-total B)</b>				<b>\$ 734,169.83</b>			<b>\$ 717,508.38</b>	<b>-\$ 16,661.45</b>	<b>-2.27%</b>
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 73,416.98	-10%		-\$ 71,750.84	\$ 1,666.14	-2.27%
	<b>Total Bill (less OCEB)</b>				<b>\$ 660,752.85</b>			<b>\$ 645,757.54</b>	<b>-\$ 14,995.30</b>	<b>-2.27%</b>

31 Loss Factor (%) Note 1 0.50% 0.50%

Notes:

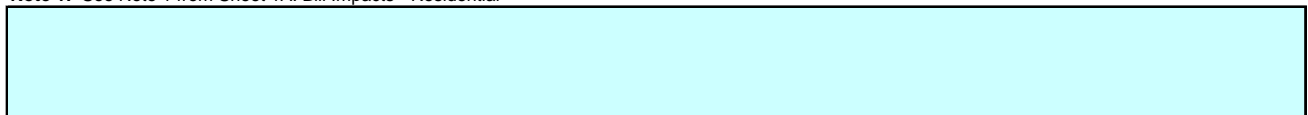
Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

Unmetered Scattered Load									
Consumption		250 kWh							
Charge Unit	Current Board-Approved			Proposed			Impact		
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1 Monthly Service Charge	monthly	\$ 15.31	1	\$ 15.31	\$ 15.34	1	\$ 15.34	\$ 0.03	0.20%
2 Smart Meter Rate Adder	monthly		1	\$ -		1	\$ -	\$ -	
3 Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4 Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5 Distribution Volumetric Rate	per kWh	\$ 0.0190	250	\$ 4.75	\$ 0.0190	250	\$ 4.75	\$ -	0.00%
6 Low Voltage Rate Adder	per kWh	\$ 0.0001	250	\$ 0.03	\$ 0.0001	250	\$ 0.03	\$ -	0.00%
7 Volumetric Rate Adder(s)			250	\$ -		250	\$ -	\$ -	
8 Volumetric Rate Rider(s)			250	\$ -		250	\$ -	\$ -	
9 Smart Meter Disposition Rider			250	\$ -		250	\$ -	\$ -	
10 LRAM & SSM Rider	per kWh	\$ 0.0048	250	\$ 1.20	\$ 0.0048	250	\$ 1.20	\$ -	0.00%
11 Deferral/Variance Account Disposition Rate Rider	per kWh	-\$ 0.00203	250	-\$ 0.51	-\$ 0.00753	250	-\$ 1.88	-\$ 1.38	270.94%
12 LPP Rate Rider	monthly	\$ 0.1400		\$ -		\$ -	\$ -	\$ -	
13 Capital Gains Rate Rider	per kWh	-\$ 0.0015		\$ -	-\$ 0.0015	250	-\$ 0.38	-\$ 0.38	
14 Foregone Revenue Rate Rider	per kWh	\$ 0.0008		\$ -		\$ -	\$ -	\$ -	
15 Tax Change Rate Rider	per kWh			\$ -	-\$ 0.0002	250	-\$ 0.05	-\$ 0.05	
<b>16 Sub-Total A - Distribution</b>				<b>\$ 20.78</b>			<b>\$ 19.01</b>	<b>-\$ 1.77</b>	<b>-8.52%</b>
17 RTSR - Network	per kWh	\$ 0.0061	260.1	\$ 1.59	\$ 0.0062	260.1	\$ 1.61	\$ 0.03	1.64%
18 RTSR - Line and Transformation Connection	per kWh	\$ 0.0020	260.1	\$ 0.52	\$ 0.0021	260.1	\$ 0.55	\$ 0.03	5.00%
<b>19 Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 22.88</b>			<b>\$ 21.17</b>	<b>-\$ 1.72</b>	<b>-7.51%</b>
20 Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	260.1	\$ 1.35	\$ 0.0052	260.1	\$ 1.35	\$ -	0.00%
21 Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	260.1	\$ 0.34	\$ 0.0013	260.1	\$ 0.34	\$ -	0.00%
22 Special Purpose Charge	per kWh		260.1	\$ -		260.1	\$ -	\$ -	
23 Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24 Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	250	\$ 1.75	\$ 0.0070	250	\$ 1.75	\$ -	0.00%
25 Energy	per kWh	\$ 0.06800	260.1	\$ 17.69	\$ 0.06800	260.1	\$ 17.69	\$ -	0.00%
26				\$ -			\$ -	\$ -	
27				\$ -			\$ -	\$ -	
<b>28 Total Bill (before Taxes)</b>				<b>\$ 44.26</b>			<b>\$ 42.54</b>	<b>-\$ 1.72</b>	<b>-3.88%</b>
29 HST		13%		\$ 5.75	13%		\$ 5.53	-\$ 0.22	-3.88%
<b>30 Total Bill (including Sub-total B)</b>				<b>\$ 50.02</b>			<b>\$ 48.07</b>	<b>-\$ 1.95</b>	<b>-3.90%</b>
Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 5.00	-10%		-\$ 4.81	\$ 0.20	-3.90%
<b>Total Bill (less OCEB)</b>				<b>\$ 45.02</b>			<b>\$ 43.26</b>	<b>-\$ 1.76</b>	<b>-3.90%</b>

31 Loss Factor Note 1 4.04% 4.04%

Notes:

Note 1: See Note 1 from Sheet 1A. Bill Impacts - Residential



Street Lighting										
Consumption	Charge Unit	0.14 kW		50 kWh		Proposed			Impact	
		Current		Board-Approved		Rate (\$)	Volume	Charge (\$)	\$ Change	% Change
		Rate (\$)	Volume	Charge (\$)	Rate (\$)					
1	Monthly Service Charge	monthly	\$ 0.33	1	\$ 0.33	\$ 0.33	1	\$ 0.33	\$ -	0.00%
2	Smart Meter Rate Adder	monthly		1	\$ -		1	\$ -	\$ -	
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kW	\$ 8.3232	0.14	\$ 1.17	\$ 8.3382	0.14	\$ 1.17	\$ 0.00	0.18%
6	Low Voltage Rate Adder	per kW	\$ 0.0341	0.14	\$ 0.00	\$ 0.0341	0.14	\$ 0.00	\$ -	0.00%
7	Volumetric Rate Adder(s)			0.14	\$ -		0.14	\$ -	\$ -	
8	Volumetric Rate Rider(s)			0.14	\$ -		0.14	\$ -	\$ -	
9	Smart Meter Disposition Rider			0.14	\$ -		0.14	\$ -	\$ -	
10	LRAM & SSM Rate Rider	per kW	\$ 0.2475	0.14	\$ 0.03	\$ 0.2475	0.14	\$ 0.03	\$ -	0.00%
11	Deferral/Variance Account Disposition Rate Rider	per kW	-\$ 0.9421	0.14	-\$ 0.13	-\$ 2.12653	0.14	-\$ 0.30	-\$ 0.17	125.72%
12	LPP Rate Rider	monthly	\$ 0.0100	1	\$ 0.01			\$ -	-\$ 0.01	-100.00%
13	Capital Gains Rate Rider	per kW	-\$ 0.1959	0.14	-\$ 0.03	-\$ 0.1959	0.14	-\$ 0.03	\$ -	0.00%
14	Foregone Revenue Rate Rider	per kW	\$ 0.1435	0.14	\$ 0.02			\$ -	-\$ 0.02	-100.00%
	Tax Change Rate Rider	per kW			\$ -	-\$ 0.0229	0.14	-\$ 0.00	-\$ 0.00	
15	Low Voltage Rate Rider	per kW	\$ 0.0010	0.14	\$ 0.00			\$ -	-\$ 0.00	-100.00%
16	<b>Sub-Total A - Distribution</b>				<b>\$ 1.41</b>			<b>\$ 1.21</b>	<b>-\$ 0.20</b>	<b>-14.03%</b>
17	RTSR - Network	per kW	\$ 1.8815	0.14	\$ 0.26	\$ 1.9058	0.14	\$ 0.27	\$ 0.00	1.29%
18	RTSR - Line and Transformation Connection	per kW	\$ 0.6046	0.14	\$ 0.08	\$ 0.6193	0.14	\$ 0.09	\$ 0.00	2.43%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 1.75</b>			<b>\$ 1.56</b>	<b>-\$ 0.19</b>	<b>-10.93%</b>
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	52	\$ 0.27	\$ 0.0052	52	\$ 0.27	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	52	\$ 0.07	\$ 0.0013	52	\$ 0.07	\$ -	0.00%
22	Special Purpose Charge	per kWh		52	\$ -		52	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	50	\$ 0.35	\$ 0.0070	50	\$ 0.35	\$ -	0.00%
25	Energy	per kWh	\$ 0.06800	52	\$ 3.54	\$ 0.06800	52	\$ 3.54	\$ -	0.00%
26					\$ -			\$ -	\$ -	
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				<b>\$ 6.23</b>			<b>\$ 6.04</b>	<b>-\$ 0.19</b>	<b>-3.08%</b>
29	HST		13%		\$ 0.81	13%		\$ 0.78	-\$ 0.02	-3.08%
30	<b>Total Bill (including Sub-total B)</b>				<b>\$ 7.04</b>			<b>\$ 6.82</b>	<b>-\$ 0.22</b>	<b>-3.13%</b>
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 0.70	-10%		-\$ 0.68	\$ 0.02	-3.13%
	<b>Total Bill (less OCEB)</b>				<b>\$ 6.34</b>			<b>\$ 6.14</b>	<b>-\$ 0.20</b>	<b>-3.13%</b>

31 Loss Factor (%) Note 1 4.04% 4.04%

Notes:

Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

Embedded Distributor										
Consumption	6,000 kW		2,375,000 kWh							
	Charge Unit	Current Board-Approved			Proposed			Impact		
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	1	\$ -	1	\$ -	\$ -	\$ -		
2	Smart Meter Rate Adder	monthly	1	\$ -	1	\$ -	\$ -	\$ -		
3	Service Charge Rate Adder(s)		1	\$ -	1	\$ -	\$ -	\$ -		
4	Service Charge Rate Rider(s)		1	\$ -	1	\$ -	\$ -	\$ -		
5	Distribution Volumetric Rate	per kW	6,000	\$ 72.00	6,000	\$ 72.00	\$ -	\$ -	0.00%	
6	Low Voltage Rate Adder	per kW	6,000	\$ -	6,000	\$ -	\$ -	\$ -		
7	Volumetric Rate Adder(s)		6,000	\$ -	6,000	\$ -	\$ -	\$ -		
8	Volumetric Rate Rider(s)		6,000	\$ -	6,000	\$ -	\$ -	\$ -		
9	Smart Meter Disposition Rider		6,000	\$ -	6,000	\$ -	\$ -	\$ -		
10	LRAM & SSM Rate Rider	per kW	6,000	\$ -	6,000	\$ -	\$ -	\$ -		
11	Deferral/Variance Account Disposition Rate Rider	per kW	6,000	\$ 7,026.24	6,000	\$ 11,783.64	-\$ 4,757.40	\$ -	67.71%	
12			1	\$ -	1	\$ -	\$ -	\$ -		
13	Capital Gains Rate Rider	per kW	6,000	\$ 1.20	6,000	\$ 1.20	\$ -	\$ -	0.00%	
14	Foregone Revenue Rate Rider	per kW	6,000	\$ 6.60	6,000	\$ -	-\$ 6.60	\$ -	-100.00%	
15			6,000	\$ -	6,000	\$ -	\$ -	\$ -		
16	<b>Sub-Total A - Distribution</b>			<b>\$ 6,948.84</b>		<b>\$ 11,712.84</b>	<b>-\$ 4,764.00</b>	<b>\$ -</b>	<b>-68.56%</b>	
17	RTSR - Network	per kW	6,000	\$ -	6,000	\$ -	\$ -	\$ -		
18	RTSR - Line and Transformation Connection	per kW	6,000	\$ -	6,000	\$ -	\$ -	\$ -		
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>			<b>\$ 6,948.84</b>		<b>\$ 11,712.84</b>	<b>-\$ 4,764.00</b>	<b>\$ -</b>	<b>-68.56%</b>	
20	Wholesale Market Service Charge (WMSC)	per kWh	2,386,875	\$ 12,411.75	2,386,875	\$ 12,411.75	\$ -	\$ -	0.00%	
21	Rural and Remote Rate Protection (RRRP)	per kWh	2,386,875	\$ 3,102.94	2,386,875	\$ 3,102.94	\$ -	\$ -	0.00%	
22	Special Purpose Charge	per kWh	2,386,875	\$ -	2,386,875	\$ -	\$ -	\$ -		
23	Standard Supply Service Charge	monthly	1	\$ 0.25	1	\$ 0.25	\$ -	\$ -	0.00%	
24	Debt Retirement Charge (DRC)	per kWh	2,375,000	\$ 16,625.00	2,375,000	\$ 16,625.00	\$ -	\$ -	0.00%	
25	Energy	per kWh	2,386,875	\$ 162,307.50	2,386,875	\$ 162,307.50	\$ -	\$ -	0.00%	
26				\$ -		\$ -	\$ -	\$ -		
27				\$ -		\$ -	\$ -	\$ -		
28	<b>Total Bill (before Taxes)</b>			<b>\$ 187,498.60</b>		<b>\$ 182,734.60</b>	<b>-\$ 4,764.00</b>	<b>\$ -</b>	<b>-2.54%</b>	
29	HST		13%	\$ 24,374.82	13%	\$ 23,755.50	-\$ 619.32	\$ -	-2.54%	
30	<b>Total Bill (including Sub-total B)</b>			<b>\$ 211,873.42</b>		<b>\$ 206,490.10</b>	<b>-\$ 5,383.32</b>	<b>\$ -</b>	<b>-2.54%</b>	
	Ontario Clean Energy Benefit (OCEB)		-10%	-\$ 21,187.34	-10%	-\$ 20,649.01	\$ 538.33	\$ -	-2.54%	
	<b>Total Bill (less OCEB)</b>			<b>\$ 190,686.08</b>		<b>\$ 185,841.09</b>	<b>-\$ 4,844.99</b>	<b>\$ -</b>	<b>-2.54%</b>	

31 Loss Factor (%) Note 1 0.50% 0.50%

Notes:

Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

### Table IR # 6 (A)(iii) Rate Riders 2 Year Disposition

Please indicate the Rate Rider Recovery Period (in years)

2

Rate Class	Unit	Billed kWh	Billed kW	Accounts Allocated by kWh/kW (RPP) or Distribution Revenue		Deferral/Variance Account Rate Rider		Global Adjustment Sub-Account	or Estimated kW for Non-	Global Adjustment Rate Rider		
Residential	\$/kWh	393,848,054	-	-\$	1,461,343	(\$0.00186 )	\$/kWh	-\$	13,412	47,531,182	(\$0.00014 )	\$/kWh
General Service Less Than 50 kW	\$/kWh	179,687,810	-	-\$	551,019	(\$0.00153 )	\$/kWh	-\$	7,827	27,737,012	(\$0.00014 )	\$/kWh
General Service 50 to 4,999 kW	\$/kW	705,732,689	1,581,207	-\$	1,733,177	(\$0.54806 )	\$/kW	-\$	191,860	1,523,396	(\$0.06297 )	\$/kW
Large Use	\$/kW	79,638,262	153,852	-\$	183,324	(\$0.59578 )	\$/kW	-\$	23,411	160,284	(\$0.07303 )	\$/kW
Unmetered Scattered Load	\$/kWh	1,648,666	-	-\$	9,127	(\$0.00277 )	\$/kWh	-\$	122	434,100	(\$0.00014 )	\$/kWh
Street Lighting	\$/kW	7,792,006	21,835	-\$	25,861	(\$0.59219 )	\$/kW	-\$	2,171	21,559	(\$0.05035 )	\$/kW
Embedded Distributor	\$/kW	28,618,000	71,600	-\$	56,770	(\$0.39644 )	\$/kW	-\$	9,025	80,019	(\$0.05639 )	\$/kW
<b>Total</b>		<b>1,396,965,487</b>	<b>1,828,494</b>	<b>-\$</b>	<b>4,020,621</b>			<b>-\$</b>	<b>247,829</b>			

The following table provides the Proposed Rate Riders with a 2 Year Disposition Period.



**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
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 Implementation Date May 1, 2012

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Red denotes change in disposition period to 2 years from 4 years;

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Blue denotes no change when disposition period changed

Def/Var for Rate Impact Sheet
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<b>RESIDENTIAL SERVICE CLASSIFICATION</b>
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**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	14.59	
Smart Meter Funding Adder	\$	1.00	
Distribution Volumetric Rate	\$/kWh	0.0184	
Low Voltage Service Rate - Effective Until	\$/kWh	0.0001	
Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers - Effective Until April 30, 2014	\$/kWh	0.0003	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until April 30, 2014	\$/kWh	0.00072	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kWh	-0.0027	-0.0027
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kWh	-0.00003	-0.00003
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recovery - Effective Until April 30, 2015	\$/kWh	0.0002	
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kWh	-0.0007	
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recovery (2012) - Effective Until April 30, 2016	\$/kWh	0.00005	
Rate Rider for Tax Change - Effective Until April 30, 2013	\$/kWh	-0.0001	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kWh	-0.0019	-0.0019
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kWh	-0.0001	-0.00463
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0068	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0023	

**MONTHLY RATES AND CHARGES – Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
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<b>GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION</b>
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**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge	\$	30.69	
Smart Meter Funding Adder	\$	1.00	
Distribution Volumetric Rate	\$/kWh	0.0137	
Low Voltage Service Rate - Effective Until	\$/kWh	0.0001	
Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers - Effective Until April 30, 2014	\$/kWh	0.0003	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until April 30, 2014	\$/kWh	0.00072	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kWh	-0.0027	-0.0027
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kWh	-0.00003	-0.00003
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recovery - Effective	\$/kWh	0.0001	
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kWh	-0.0004	
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recovery (2012) - E	\$/kWh	0.00006	
Rate Rider for Tax Change - Effective Until April 30, 2013	\$/kWh	-0.0001	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kWh	-0.0015	-0.0015
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kWh	-0.0001	-0.00423
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0062	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0021	

**MONTHLY RATES AND CHARGES – Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

## Waterloo North Hydro Inc. TARIFF OF RATES AND CHARGES

Effective Date May 1, 2012  
Implementation Date May 1, 2012

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### GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION

#### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	138.76	
Smart Meter Funding Adder	\$	1.00	
Distribution Volumetric Rate	\$/kW	4.4369	
Low Voltage Service Rate - Effective Until	\$/kW	0.0551	
Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.1297	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.27956	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kW	-1.1063	-1.1063
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kW	-0.06474	-0.06474
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recc	\$/kW	0.1495	
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kW	-0.0866	
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recc	\$/kW	0.00527	
Rate Rider for Tax Change - Effective Until April 30, 2013	\$/kW	-0.011	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kW	-0.5481	-0.5481
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kW	-0.0630	-1.71914
Retail Transmission Rate – Network Service Rate – (less than 1,000 kW)	\$/kW	2.5268	
Retail Transmission Rate – Network Service Rate – Interval Metered (less than 1,000 kW)	\$/kW	2.6838	
Retail Transmission Rate – Network Service Rate – Interval Metered (1,000 to 4,999 kW)	\$/kW	2.6803	
Retail Transmission Rate – Line and Transformation Connection Service Rate – (less than 1,000 kW)	\$/kW	0.8012	
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered (1,000 to 4,999 kW)	\$/kW	0.9996	
Retail Transmission Rate - Line and Transformation Connection Service Rate - Interval Metered (less than 1,000 kW)	\$/kW	1.0008	

#### MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

## Waterloo North Hydro Inc. TARIFF OF RATES AND CHARGES

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### LARGE USE SERVICE CLASSIFICATION

#### MONTHLY RATES AND CHARGES - Delivery Component

Service Charge	\$	6698.51	
Smart Meter Funding Adder	\$	1.00	
Distribution Volumetric Rate	\$/kW	3.2049	
Low Voltage Service Rate - Effective Until	\$/kW	0.0553	
Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.162	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.35873	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kW	-1.3863	-1.3863
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kW	-0.09798	-0.09798
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kW	-0.0678	
Rate Rider for Tax Change - Effective Until April 30, 2013	\$/kW	-0.0079	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kW	-0.5958	-0.5958
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kW	-0.0730	-2.08008
Retail Transmission Rate – Network Service Rate – Interval Metered	\$/kW	2.9714	
Retail Transmission Rate – Line and Transformation Connection Service Rate – Interval Metered	\$/kW	1.0042	

#### MONTHLY RATES AND CHARGES – Regulatory Component

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
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**UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION**

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge (per connection)	\$	15.34	
Distribution Volumetric Rate	\$/kWh	0.019	
Low Voltage Service Rate - Effective Until	\$/kWh	0.0001	
Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers - Effective Until	\$/kWh	0.0003	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until	\$/kWh	0.00072	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kWh	-0.0027	-0.0027
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kWh	0.00067	0.00067
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recc	\$/kWh	0.0048	
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kWh	-0.0015	
Rate Rider for Tax Change - Effective Until April 30, 2013	\$/kWh	-0.0002	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kWh	-0.0028	-0.0028
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kWh	-0.0001	-0.00483
Retail Transmission Rate – Network Service Rate	\$/kWh	0.0062	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kWh	0.0021	

**MONTHLY RATES AND CHARGES – Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
Effective Date May 1, 2012  
Implementation Date May 1, 2012

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**STREET LIGHTING SERVICE CLASSIFICATION**

**MONTHLY RATES AND CHARGES - Delivery Component**

Service Charge (per connection)	\$	0.33	
Distribution Volumetric Rate	\$/kW	8.3382	
Low Voltage Service Rate - Effective Until	\$/kW	0.0341	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.10098	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kW	-0.9707	-0.9707
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kW	0.02857	0.02857
Rate Rider for Lost Revenue Adjustment Mechanism (LRAM) Recovery / Shared Savings Mechanism (SSM) Recc	\$/kW	0.2475	
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kW	-0.1959	
Rate Rider for Tax Change - Effective Until April 30, 2013	\$/kW	-0.0229	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kW	-0.5922	-0.5922
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kW	-0.0504	-1.53433
Retail Transmission Rate – Network Service Rate	\$/kW	1.9058	
Retail Transmission Rate – Line and Transformation Connection Service Rate	\$/kW	0.6193	

**MONTHLY RATES AND CHARGES – Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

**Waterloo North Hydro Inc.**  
**TARIFF OF RATES AND CHARGES**  
Effective Date May 1, 2012  
Implementation Date May 1, 2012

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

EB-2011-0201

**EMBEDDED DISTRIBUTOR SERVICE CLASSIFICATION**

**MONTHLY RATES AND CHARGES - Delivery Component**

Distribution Volumetric Rate	\$/kW	0.012	
Rate Rider for Global Adjustment Sub-Account (2010) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.1297	
Rate Rider for Global Adjustment Sub-Account (2011) – Applicable only for Non-RPP Customers - Effective Until	\$/kW	0.27956	
Rate Rider for Deferral/Variance Account Disposition (2010) - Effective Until April 30, 2014	\$/kW	-1.1063	-1.1063
Rate Rider for Deferral/Variance Account Disposition (2011) - Effective Until April 30, 2014	\$/kW	-0.06474	-0.06474
Rate Rider for Capital Gain - Effective Until April 30, 2014	\$/kW	-0.0002	
Rate Rider for Deferral/Variance Account Disposition (2012)	\$/kW	-0.3964	-0.3964
Rate Rider for Global Adjustment Sub-Account (2012) – Applicable only for Non-RPP Customers	\$/kW	-0.0564	-1.56744

**MONTHLY RATES AND CHARGES – Regulatory Component**

Wholesale Market Service Rate	\$/kWh	0.0052
Rural Rate Protection Charge	\$/kWh	0.0013
Standard Supply Service – Administrative Charge (if applicable)	\$	0.25

### Table IR # 6 (A)(iv) Rate Riders 2 Year Disposition Rate Impacts

Customer Class: **Residential**

Consumption **800 kWh**

	Charge Unit	Current Board-Approved			Proposed			Impact		
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	\$ 14.5600	1	\$ 14.56	\$ 14.5900	1	\$ 14.59	\$ 0.03	0.21%
2	Smart Meter Rate Adder	monthly	\$ 1.0000	1	\$ 1.00	\$ 1.0000	1	\$ 1.00	\$ -	0.00%
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kWh	\$ 0.0184	800	\$ 14.72	\$ 0.0184	800	\$ 14.72	\$ -	0.00%
6	Low Voltage Rate Adder	per kWh	\$ 0.0001	800	\$ 0.08	\$ 0.0001	800	\$ 0.08	\$ -	0.00%
7	Volumetric Rate Adder(s)			800	\$ -		800	\$ -	\$ -	
8	Volumetric Rate Rider(s)			800	\$ -		800	\$ -	\$ -	
9	Smart Meter Disposition Rider			800	\$ -		800	\$ -	\$ -	
10	LRAM & SSM Rate Rider	per kWh	\$ 0.0002	800	\$ 0.16	\$ 0.0003	800	\$ 0.20	\$ 0.04	25.00%
11	Deferral/Variance Account Disposition Rate Rider	per kWh	-\$ 0.00273	800	-\$ 2.18	-\$ 0.00463	800	-\$ 3.70	-\$ 1.52	69.60%
12	LPP Rate Rider	monthly	\$ 0.1900	1	\$ 0.19		1	\$ -	-\$ 0.19	-100.00%
13	Capital Gains Rate Rider	per kWh	-\$ 0.0007	800	-\$ 0.56	-\$ 0.0007	800	-\$ 0.56	\$ -	0.00%
14	Foregone Revenue Rate Rider	per kWh	\$ 0.0005	800	\$ 0.40		800	\$ -	-\$ 0.40	-100.00%
15	Tax Change Rate Rider	per kWh	\$ -	800	\$ -	-\$ 0.0001	800	-\$ 0.08	-\$ 0.08	
16	<b>Sub-Total A - Distribution</b>				<b>\$ 28.37</b>			<b>\$ 26.25</b>	<b>-\$ 2.12</b>	<b>-7.47%</b>
17	RTSR - Network	per kWh	\$ 0.0067	832.32	\$ 5.58	\$ 0.0068	832.32	\$ 5.66	\$ 0.08	1.49%
18	RTSR - Line and Transformation Connection	per kWh	\$ 0.0022	832.32	\$ 1.83	\$ 0.0023	832.32	\$ 1.91	\$ 0.08	4.55%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 35.77</b>			<b>\$ 33.82</b>	<b>-\$ 1.95</b>	<b>-5.46%</b>
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	832.32	\$ 4.33	\$ 0.0052	832.32	\$ 4.33	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	832.32	\$ 1.08	\$ 0.0013	832.32	\$ 1.08	\$ -	0.00%
22	Special Purpose Charge	per kWh		832.32	\$ -		832.32	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	800	\$ 5.60	\$ 0.0070	800	\$ 5.60	\$ -	0.00%
25	Energy First Block	per kWh	\$ 0.06800	600	\$ 40.80	\$ 0.06800	600	\$ 40.80	\$ -	0.00%
26	Energy Second Block	per kWh	\$ 0.0790	232.32	\$ 18.35	\$ 0.0790	232.32	\$ 18.35	\$ -	0.00%
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				<b>\$ 106.19</b>			<b>\$ 104.23</b>	<b>-\$ 1.95</b>	<b>-1.84%</b>
29	HST		13%		\$ 13.80	13%		\$ 13.55	-\$ 0.25	-1.84%
30	<b>Total Bill (including Sub-total B)</b>				<b>\$ 119.99</b>			<b>\$ 117.78</b>	<b>-\$ 2.21</b>	<b>-1.84%</b>
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 12.00	-10%		-\$ 11.78	\$ 0.22	-1.84%
	<b>Total Bill (less OCEB)</b>				<b>\$ 107.99</b>			<b>\$ 106.00</b>	<b>-\$ 1.99</b>	<b>-1.84%</b>

31 Loss Factor (%) Note 1 4.04% 4.04%

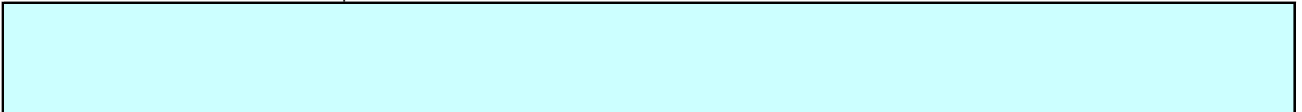
**Notes:**

Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

General Service < 50 kW										
Consumption		2,000		kWh						
	Charge Unit	Current Board-Approved			Proposed			Impact		
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	\$ 30.6300	1	\$ 30.63	\$ 30.6900	1	\$ 30.69	\$ 0.06	0.20%
2	Smart Meter Rate Adder	monthly	\$ 1.0000	1	\$ 1.00	\$ 1.0000	1	\$ 1.00	\$ -	0.00%
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kWh	\$ 0.0137	2000	\$ 27.40	\$ 0.0137	2000	\$ 27.40	\$ -	0.00%
6	Low Voltage Rate Adder	per kWh	\$ 0.0001	2000	\$ 0.20	\$ 0.0001	2000	\$ 0.20	\$ -	0.00%
7	Volumetric Rate Adder(s)			2000	\$ -		2000	\$ -	\$ -	
8	Volumetric Rate Rider(s)			2000	\$ -		2000	\$ -	\$ -	
9	Smart Meter Disposition Rider			2000	\$ -		2000	\$ -	\$ -	
10	LRAM & SSM Rider	per kWh	\$ 0.0001	2000	\$ 0.20	\$ 0.0002	2000	\$ 0.32	\$ 0.12	60.00%
11	Deferral/Variance Account Disposition Rate Rider	per kWh	-\$ 0.00273	2000	-\$ 5.46	-\$ 0.00423	2000	-\$ 8.46	-\$ 3.00	54.95%
12	LPP Rate Rider	monthly	\$ 0.4500	1	\$ 0.45			\$ -	-\$ 0.45	-100.00%
13	Capital Gains Rate Rider	per kWh	-\$ 0.0004	2,000	-\$ 0.80	-\$ 0.0004	2000	-\$ 0.80	\$ -	0.00%
14	Foregone Revenue Rate Rider	per kWh	\$ 0.0003	2,000	\$ 0.60			\$ -	-\$ 0.60	-100.00%
15	Tax Change Rate Rider				\$ -		2,000	-\$ 0.20	-\$ 0.20	
16	<b>Sub-Total A - Distribution</b>				<b>\$ 54.22</b>			<b>\$ 50.15</b>	<b>-\$ 4.07</b>	<b>-7.51%</b>
17	RTSR - Network	per kWh	\$ 0.0061	2080.8	\$ 12.69	\$ 0.0062	2080.8	\$ 12.90	\$ 0.21	1.64%
18	RTSR - Line and Transformation Connection	per kWh	\$ 0.0020	2080.8	\$ 4.16	\$ 0.0021	2080.8	\$ 4.37	\$ 0.21	5.00%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 71.07</b>			<b>\$ 67.42</b>	<b>-\$ 3.65</b>	<b>-5.14%</b>
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	2080.8	\$ 10.82	\$ 0.0052	2080.8	\$ 10.82	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	2080.8	\$ 2.71	\$ 0.0013	2080.8	\$ 2.71	\$ -	0.00%
22	Special Purpose Charge	per kWh		2080.8	\$ -		2080.8	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	2000	\$ 14.00	\$ 0.0070	2000	\$ 14.00	\$ -	0.00%
25	Energy First Block	per kWh	\$ 0.06800	750	\$ 51.00	\$ 0.06800	750	\$ 51.00	\$ -	0.00%
26	Energy Second Block	per kWh	\$ 0.0790	1330.8	\$ 105.13	\$ 0.0790	1330.8	\$ 105.13	\$ -	0.00%
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				<b>\$ 254.98</b>			<b>\$ 251.33</b>	<b>-\$ 3.65</b>	<b>-1.43%</b>
29	HST		13%		\$ 33.15	13%		\$ 32.67	-\$ 0.47	-1.43%
30	<b>Total Bill (including Sub-total B)</b>				<b>\$ 288.13</b>			<b>\$ 284.00</b>	<b>-\$ 4.13</b>	<b>-1.43%</b>
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 28.81	-10%		-\$ 28.40	\$ 0.41	-1.43%
	<b>Total Bill (less OCEB)</b>				<b>\$ 259.32</b>			<b>\$ 255.60</b>	<b>-\$ 3.72</b>	<b>-1.43%</b>

31 Loss Factor Note 1 4.04% 4.04%

Notes:  
 Note 1: See Note 1 from Sheet 1A. Bill Impacts - Residential



General Service > 50 kW										
Consumption	Charge Unit	250 kW		Proposed			Impact			
		Rate (\$)	Volume	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		
		100,000	kWh							
1	Monthly Service Charge	monthly	\$ 162.82	1	\$ 162.82	\$ 138.76	1	\$ 138.76	-\$ 24.06	-14.78%
2	Smart Meter Rate Adder	monthly	\$ 1.0000	1	\$ 1.00	\$ 1.0000	1	\$ 1.00	\$ -	0.00%
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kW	\$ 4.3073	250	\$ 1,076.83	\$ 4.4369	250	\$ 1,109.23	\$ 32.40	3.01%
6	Low Voltage Rate Adder	per kW	\$ 0.0551	250	\$ 13.78	\$ 0.0551	250	\$ 13.78	\$ -	0.00%
7	Volumetric Rate Adder(s)			250	\$ -		250	\$ -	\$ -	
8	Volumetric Rate Rider(s)			250	\$ -		250	\$ -	\$ -	
9	Smart Meter Disposition Rider			250	\$ -		250	\$ -	\$ -	
10	LRAM & SSM Rate Rider	per kW	\$ 0.1495	250	\$ 37.38	\$ 0.1548	250	\$ 38.69	\$ 1.32	3.53%
11	Deferral/Variance Account	per kW	-\$ 1.17104	250	-\$ 292.76	-\$ 1.71914	250	-\$ 429.79	-\$ 137.03	46.80%
	Disposition Rate Rider									
12	LPP Rate Rider	monthly	\$ 6.6700	1	\$ 6.67		1	\$ -	-\$ 6.67	-100.00%
13	Capital Gains Rate Rider	per kW	-\$ 0.0866	250	-\$ 21.65	-\$ 0.0866	250	-\$ 21.65	\$ -	0.00%
14	Foregone Revenue Rate Rider	per kW	\$ 0.0584	250	\$ 14.60		250	\$ -	-\$ 14.60	-100.00%
15	Low Voltage Rate Rider	per kW	\$ 0.0023	250	\$ 0.58		250	\$ -	-\$ 0.58	-100.00%
	Tax Change Rate Rider	per kW				-\$ 0.0110	250	-\$ 2.75	-\$ 2.75	
16	<b>Sub-Total A - Distribution</b>				<b>\$ 999.23</b>			<b>\$ 847.27</b>	<b>-\$ 151.96</b>	<b>-15.21%</b>
17	RTSR - Network	per kW	\$ 2.4945	250	\$ 623.63	\$ 2.5268	250	\$ 631.70	\$ 8.08	1.29%
18	RTSR - Line and Transformation Connection	per kW	\$ 0.7822	250	\$ 195.55	\$ 0.8012	250	\$ 200.30	\$ 4.75	2.43%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 1,818.41</b>			<b>\$ 1,679.27</b>	<b>-\$ 139.14</b>	<b>-7.65%</b>
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	104,040	\$ 541.01	\$ 0.0052	104,040	\$ 541.01	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	104,040	\$ 135.25	\$ 0.0013	104,040	\$ 135.25	\$ -	0.00%
22	Special Purpose Charge	per kWh		104,040	\$ -		104,040	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	100,000	\$ 700.00	\$ 0.0070	100,000	\$ 700.00	\$ -	0.00%
25	Energy	per kWh	\$ 0.06800	104,040	\$ 7,074.72	\$ 0.06800	104,040	\$ 7,074.72	\$ -	0.00%
26					\$ -			\$ -	\$ -	
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				<b>\$ 10,269.64</b>			<b>\$ 10,130.50</b>	<b>-\$ 139.14</b>	<b>-1.35%</b>
29	HST		13%		\$ 1,335.05	13%		\$ 1,316.96	-\$ 18.09	-1.35%
30	<b>Total Bill (including Sub-total B)</b>				<b>\$ 11,604.69</b>			<b>\$ 11,447.46</b>	<b>-\$ 157.23</b>	<b>-1.35%</b>
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 1,160.47	-10%		-\$ 1,144.75	\$ 15.72	-1.35%
	<b>Total Bill (less OCEB)</b>				<b>\$ 10,444.22</b>			<b>\$ 10,302.71</b>	<b>-\$ 141.51</b>	<b>-1.35%</b>

31 Loss Factor (%) Note 1 4.04% 4.04%

Notes:

Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

Large Use										
Consumption	12,300 kW		Impact							
	7,000,000 kWh		Current Board-Approved			Proposed			Impact	
	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change		
1	Monthly Service Charge	monthly	\$ 6,686.47	1	\$ 6,686.47	\$ 6,698.51	1	\$ 6,698.51	\$ 12.04	0.18%
2	Smart Meter Rate Adder	monthly	\$ 1.0000	1	\$ 1.00	\$ 1.0000	1	\$ 1.00	\$ -	0.00%
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kW	\$ 3.1991	12,300	\$ 39,348.93	\$ 3.2049	12,300	\$ 39,420.27	\$ 71.34	0.18%
6	Low Voltage Rate Adder	per kW	\$ 0.0553	12,300	\$ 680.19	\$ 0.0553	12,300	\$ 680.19	\$ -	0.00%
7	Volumetric Rate Adder(s)			12,300	\$ -		12,300	\$ -	\$ -	
8	Volumetric Rate Rider(s)			12,300	\$ -		12,300	\$ -	\$ -	
9	Smart Meter Disposition Rider			12,300	\$ -		12,300	\$ -	\$ -	
10	LRAM & SSM Rate Rider	per kW	\$ -	12,300	\$ -	\$ -	12,300	\$ -	\$ -	
11	Deferral/Variance Account Disposition Rate Rider	per kW	-\$ 1.48428	12,300	-\$ 18,256.64	-\$ 2.08008	12,300	-\$ 25,584.98	-\$ 7,328.34	40.14%
12	LPP Rate Rider	monthly	\$ 251.3000	1	\$ 251.30			\$ -	-\$ 251.30	-100.00%
13	Capital Gains Rate Rider	per kW	-\$ 0.0678	12,300	-\$ 833.94	-\$ 0.0678	12,300	-\$ 833.94	\$ -	0.00%
14	Foregone Revenue Rate Rider	per kW	\$ 0.0457	12,300	\$ 562.11			\$ -	-\$ 562.11	-100.00%
	Tax Change Rate Rider	per kW			\$ -	-\$ 0.0079	12,300	-\$ 97.17	\$ 97.17	
15	Low Voltage Rate Rider	per kW	\$ 0.0016	12,300	\$ 19.68			\$ -	-\$ 19.68	-100.00%
16	<b>Sub-Total A - Distribution</b>				<b>\$ 28,459.10</b>			<b>\$ 20,283.88</b>	<b>-\$ 8,175.22</b>	<b>-28.73%</b>
17	RTSR - Network	per kW	\$ 2.9335	12,300	\$ 36,082.05	\$ 2.9714	12,300	\$ 36,548.22	\$ 466.17	1.29%
18	RTSR - Line and Transformation Connection	per kW	\$ 0.9804	12,300	\$ 12,058.92	\$ 1.0042	12,300	\$ 12,351.66	\$ 292.74	2.43%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				<b>\$ 76,600.07</b>			<b>\$ 69,183.76</b>	<b>-\$ 7,416.31</b>	<b>-9.68%</b>
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	7,035,000	\$ 36,582.00	\$ 0.0052	7,035,000	\$ 36,582.00	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	7,035,000	\$ 9,145.50	\$ 0.0013	7,035,000	\$ 9,145.50	\$ -	0.00%
22	Special Purpose Charge	per kWh		7,035,000	\$ -		7,035,000	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	7,000,000	\$ 49,000.00	\$ 0.0070	7,000,000	\$ 49,000.00	\$ -	0.00%
25	Energy	per kWh	\$ 0.06800	7,035,000	\$ 478,380.00	\$ 0.06800	7,035,000	\$ 478,380.00	\$ -	0.00%
26					\$ -			\$ -	\$ -	
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				<b>\$ 649,707.82</b>			<b>\$ 642,291.51</b>	<b>-\$ 7,416.31</b>	<b>-1.14%</b>
29	HST		13%		\$ 84,462.02	13%		\$ 83,497.90	-\$ 964.12	-1.14%
30	<b>Total Bill (including Sub-total B)</b>				<b>\$ 734,169.83</b>			<b>\$ 725,789.40</b>	<b>-\$ 8,380.43</b>	<b>-1.14%</b>
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 73,416.98	-10%		-\$ 72,578.94	\$ 838.04	-1.14%
	<b>Total Bill (less OCEB)</b>				<b>\$ 660,752.85</b>			<b>\$ 653,210.46</b>	<b>-\$ 7,542.39</b>	<b>-1.14%</b>

31 Loss Factor (%) Note 1 0.50% 0.50%

Notes:  
 Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

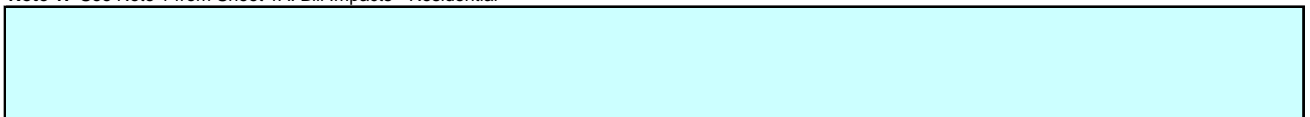
**Unmetered Scattered Load**

Consumption 250 kWh

	Charge Unit	Current Board-Approved			Proposed			Impact		
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	\$ 15.31	1	\$ 15.31	\$ 15.34	1	\$ 15.34	\$ 0.03	0.20%
2	Smart Meter Rate Adder	monthly		1	\$ -		1	\$ -	\$ -	
3	Service Charge Rate Adder(s)			1	\$ -		1	\$ -	\$ -	
4	Service Charge Rate Rider(s)			1	\$ -		1	\$ -	\$ -	
5	Distribution Volumetric Rate	per kWh	\$ 0.0190	250	\$ 4.75	\$ 0.0190	250	\$ 4.75	\$ -	0.00%
6	Low Voltage Rate Adder	per kWh	\$ 0.0001	250	\$ 0.03	\$ 0.0001	250	\$ 0.03	\$ -	0.00%
7	Volumetric Rate Adder(s)			250	\$ -		250	\$ -	\$ -	
8	Volumetric Rate Rider(s)			250	\$ -		250	\$ -	\$ -	
9	Smart Meter Disposition Rider			250	\$ -		250	\$ -	\$ -	
10	LRAM & SSM Rider	per kWh	\$ 0.0048	250	\$ 1.20	\$ 0.0048	250	\$ 1.20	\$ -	0.00%
11	Deferral/Variance Account Disposition Rate Rider	per kWh	-\$ 0.00203	250	-\$ 0.51	-\$ 0.00483	250	-\$ 1.21	-\$ 0.70	137.93%
12	LPP Rate Rider	monthly	\$ 0.1400		\$ -			\$ -	\$ -	
13	Capital Gains Rate Rider	per kWh	-\$ 0.0015		\$ -	-\$ 0.0015	250	-\$ 0.38	-\$ 0.38	
14	Foregone Revenue Rate Rider	per kWh	\$ 0.0008		\$ -			\$ -	\$ -	
15	Tax Change Rate Rider	per kWh			\$ -	-\$ 0.0002	250	-\$ 0.05	-\$ 0.05	
16	<b>Sub-Total A - Distribution</b>				\$ 20.78			\$ 19.68	-\$ 1.10	-5.27%
17	RTSR - Network	per kWh	\$ 0.0061	260.1	\$ 1.59	\$ 0.0062	260.1	\$ 1.61	\$ 0.03	1.64%
18	RTSR - Line and Transformation Connection	per kWh	\$ 0.0020	260.1	\$ 0.52	\$ 0.0021	260.1	\$ 0.55	\$ 0.03	5.00%
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>				\$ 22.88			\$ 21.84	-\$ 1.04	-4.56%
20	Wholesale Market Service Charge (WMSC)	per kWh	\$ 0.0052	260.1	\$ 1.35	\$ 0.0052	260.1	\$ 1.35	\$ -	0.00%
21	Rural and Remote Rate Protection (RRRP)	per kWh	\$ 0.0013	260.1	\$ 0.34	\$ 0.0013	260.1	\$ 0.34	\$ -	0.00%
22	Special Purpose Charge	per kWh		260.1	\$ -		260.1	\$ -	\$ -	
23	Standard Supply Service Charge	monthly	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%
24	Debt Retirement Charge (DRC)	per kWh	\$ 0.0070	250	\$ 1.75	\$ 0.0070	250	\$ 1.75	\$ -	0.00%
25	Energy	per kWh	\$ 0.06800	260.1	\$ 17.69	\$ 0.06800	260.1	\$ 17.69	\$ -	0.00%
26					\$ -			\$ -	\$ -	
27					\$ -			\$ -	\$ -	
28	<b>Total Bill (before Taxes)</b>				\$ 44.26			\$ 43.22	-\$ 1.04	-2.36%
29	HST		13%		\$ 5.75	13%		\$ 5.62	-\$ 0.14	-2.36%
30	<b>Total Bill (including Sub-total B)</b>				\$ 50.02			\$ 48.84	-\$ 1.18	-2.36%
	Ontario Clean Energy Benefit (OCEB)		-10%		-\$ 5.00	-10%		-\$ 4.88	\$ 0.12	-2.36%
	<b>Total Bill (less OCEB)</b>				\$ 45.02			\$ 43.96	-\$ 1.06	-2.36%

31 Loss Factor Note 1 4.04% 4.04%

Notes:  
Note 1: See Note 1 from Sheet 1A. Bill Impacts - Residential





Street Lighting										
Consumption	Charge Unit	0.14 kW		50 kWh		Proposed			Impact	
		Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
		Current Board-Approved			Proposed					
1	Monthly Service Charge	\$ 0.33	1	\$ 0.33	\$ 0.33	1	\$ 0.33	\$ -	0.00%	
2	Smart Meter Rate Adder		1	\$ -		1	\$ -	\$ -		
3	Service Charge Rate Adder(s)		1	\$ -		1	\$ -	\$ -		
4	Service Charge Rate Rider(s)		1	\$ -		1	\$ -	\$ -		
5	Distribution Volumetric Rate	\$ 8.3232	0.14	\$ 1.17	\$ 8.3382	0.14	\$ 1.17	\$ 0.00	0.18%	
6	Low Voltage Rate Adder	\$ 0.0341	0.14	\$ 0.00	\$ 0.0341	0.14	\$ 0.00	\$ -	0.00%	
7	Volumetric Rate Adder(s)		0.14	\$ -		0.14	\$ -	\$ -		
8	Volumetric Rate Rider(s)		0.14	\$ -		0.14	\$ -	\$ -		
9	Smart Meter Disposition Rider		0.14	\$ -		0.14	\$ -	\$ -		
10	LRAM & SSM Rate Rider	\$ 0.2475	0.14	\$ 0.03	\$ 0.2475	0.14	\$ 0.03	\$ -	0.00%	
11	Deferral/Variance Account Disposition Rate Rider	-\$ 0.9421	0.14	-\$ 0.13	-\$ 1.53433	0.14	-\$ 0.21	-\$ 0.08	62.86%	
12	LPP Rate Rider	\$ 0.0100	1	\$ 0.01			\$ -	-\$ 0.01	-100.00%	
13	Capital Gains Rate Rider	-\$ 0.1959	0.14	-\$ 0.03	-\$ 0.1959	0.14	-\$ 0.03	\$ -	0.00%	
14	Foregone Revenue Rate Rider	\$ 0.1435	0.14	\$ 0.02			\$ -	-\$ 0.02	-100.00%	
	Tax Change Rate Rider			\$ -	-\$ 0.0229	0.14	-\$ 0.00	-\$ 0.00		
15	Low Voltage Rate Rider	\$ 0.0010	0.14	\$ 0.00			\$ -	-\$ 0.00	-100.00%	
16	<b>Sub-Total A - Distribution</b>			<b>\$ 1.41</b>			<b>\$ 1.29</b>	<b>-\$ 0.11</b>	<b>-8.13%</b>	
17	RTSR - Network	\$ 1.8815	0.14	\$ 0.26	\$ 1.9058	0.14	\$ 0.27	\$ 0.00	1.29%	
18	RTSR - Line and Transformation Connection	\$ 0.6046	0.14	\$ 0.08	\$ 0.6193	0.14	\$ 0.09	\$ 0.00	2.43%	
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>			<b>\$ 1.75</b>			<b>\$ 1.64</b>	<b>-\$ 0.11</b>	<b>-6.20%</b>	
20	Wholesale Market Service Charge (WMSC)	\$ 0.0052	52	\$ 0.27	\$ 0.0052	52	\$ 0.27	\$ -	0.00%	
21	Rural and Remote Rate Protection (RRRP)	\$ 0.0013	52	\$ 0.07	\$ 0.0013	52	\$ 0.07	\$ -	0.00%	
22	Special Purpose Charge		52	\$ -		52	\$ -	\$ -		
23	Standard Supply Service Charge	\$ 0.2500	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	
24	Debt Retirement Charge (DRC)	\$ 0.0070	50	\$ 0.35	\$ 0.0070	50	\$ 0.35	\$ -	0.00%	
25	Energy	\$ 0.06800	52	\$ 3.54	\$ 0.06800	52	\$ 3.54	\$ -	0.00%	
26				\$ -			\$ -	\$ -		
27				\$ -			\$ -	\$ -		
28	<b>Total Bill (before Taxes)</b>			<b>\$ 6.23</b>			<b>\$ 6.12</b>	<b>-\$ 0.11</b>	<b>-1.75%</b>	
29	HST	13%		\$ 0.81	13%		\$ 0.80	-\$ 0.01	-1.75%	
30	<b>Total Bill (including Sub-total B)</b>			<b>\$ 7.04</b>			<b>\$ 6.92</b>	<b>-\$ 0.12</b>	<b>-1.70%</b>	
	Ontario Clean Energy Benefit (OCEB)	-10%		-\$ 0.70	-10%		-\$ 0.69	\$ 0.01	-1.70%	
	<b>Total Bill (less OCEB)</b>			<b>\$ 6.34</b>			<b>\$ 6.23</b>	<b>-\$ 0.11</b>	<b>-1.70%</b>	

31 Loss Factor (%) Note 1 4.04% 4.04%

Notes:

Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

Embedded Distributor										
Consumption	6,000 kW									
	2,375,000 kWh		Current Board-Approved			Proposed			Impact	
	Charge Unit	Rate (\$)	Volume	Charge (\$)	Rate (\$)	Volume	Charge (\$)	\$ Change	% Change	
1	Monthly Service Charge	monthly	1	\$ -		1	\$ -	\$ -		
2	Smart Meter Rate Adder	monthly	1	\$ -		1	\$ -	\$ -		
3	Service Charge Rate Adder(s)		1	\$ -		1	\$ -	\$ -		
4	Service Charge Rate Rider(s)		1	\$ -		1	\$ -	\$ -		
5	Distribution Volumetric Rate	per kW	6,000	\$ 72.00	\$ 0.0120	6,000	\$ 72.00	\$ -	0.00%	
6	Low Voltage Rate Adder	per kW	6,000	\$ -		6,000	\$ -	\$ -		
7	Volumetric Rate Adder(s)		6,000	\$ -		6,000	\$ -	\$ -		
8	Volumetric Rate Rider(s)		6,000	\$ -		6,000	\$ -	\$ -		
9	Smart Meter Disposition Rider		6,000	\$ -		6,000	\$ -	\$ -		
10	LRAM & SSM Rate Rider	per kW	6,000	\$ -		6,000	\$ -	\$ -		
11	Deferral/Variance Account Disposition Rate Rider	per kW	6,000	\$ 7,026.24	-\$ 1.56744	6,000	-\$ 9,404.64	-\$ 2,378.40	33.85%	
12			1	\$ -		1	\$ -	\$ -		
13	Capital Gains Rate Rider	per kW	6,000	-\$ 1.20	-\$ 0.0002	6,000	-\$ 1.20	\$ -	0.00%	
14	Foregone Revenue Rate Rider	per kW	6,000	\$ 6.60		6,000	\$ -	-\$ 6.60	-100.00%	
15			6,000	\$ -		6,000	\$ -	\$ -		
16	<b>Sub-Total A - Distribution</b>			<b>-\$ 6,948.84</b>			<b>-\$ 9,333.84</b>	<b>-\$ 2,385.00</b>	<b>-34.32%</b>	
17	RTSR - Network	per kW	6,000	\$ -		6,000	\$ -	\$ -		
18	RTSR - Line and Transformation Connection	per kW	6,000	\$ -		6,000	\$ -	\$ -		
19	<b>Sub-Total B - Delivery (including Sub-Total A)</b>			<b>-\$ 6,948.84</b>			<b>-\$ 9,333.84</b>	<b>-\$ 2,385.00</b>	<b>-34.32%</b>	
20	Wholesale Market Service Charge (WMSC)	per kWh	2,386,875	\$ 12,411.75	\$ 0.0052	2,386,875	\$ 12,411.75	\$ -	0.00%	
21	Rural and Remote Rate Protection (RRRP)	per kWh	2,386,875	\$ 3,102.94	\$ 0.0013	2,386,875	\$ 3,102.94	\$ -	0.00%	
22	Special Purpose Charge	per kWh	2,386,875	\$ -		2,386,875	\$ -	\$ -		
23	Standard Supply Service Charge	monthly	1	\$ 0.25	\$ 0.2500	1	\$ 0.25	\$ -	0.00%	
24	Debt Retirement Charge (DRC)	per kWh	2,375,000	\$ 16,625.00	\$ 0.0070	2,375,000	\$ 16,625.00	\$ -	0.00%	
25	Energy	per kWh	2,386,875	\$ 162,307.50	\$ 0.06800	2,386,875	\$ 162,307.50	\$ -	0.00%	
26				\$ -			\$ -	\$ -		
27				\$ -			\$ -	\$ -		
28	<b>Total Bill (before Taxes)</b>			<b>\$ 187,498.60</b>			<b>\$ 185,113.60</b>	<b>-\$ 2,385.00</b>	<b>-1.27%</b>	
29	HST		13%	\$ 24,374.82		13%	\$ 24,064.77	-\$ 310.05	-1.27%	
30	<b>Total Bill (including Sub-total B)</b>			<b>\$ 211,873.42</b>			<b>\$ 209,178.37</b>	<b>-\$ 2,695.05</b>	<b>-1.27%</b>	
	Ontario Clean Energy Benefit (OCEB)		-10%	-\$ 21,187.34		-10%	-\$ 20,917.84	\$ 269.51	-1.27%	
	<b>Total Bill (less OCEB)</b>			<b>\$ 190,686.08</b>			<b>\$ 188,260.53</b>	<b>-\$ 2,425.55</b>	<b>-1.27%</b>	

31 Loss Factor (%) Note 1 0.50% 0.50%

Notes:

Note 1: Enter existing and proposed total loss factor (Secondary Metered Customer < 5,000 kW) as a percentage.

**Account 1521 – Special Purpose Charge**

**Interrogatory #7**

**Ref: EB-2011-0201 Manager’s Summary, Page 17**

**(A) Please confirm what amount Waterloo paid in regards to the SPC Assessment and provide a copy of the original invoice.**

WNH paid \$529,374 in regards to the SPC Assessment and a copy of the original invoice is provided in Attachment A.

**(B) Please confirm Waterloo’s beginning and ending billing dates to customers for the SPC Assessment.**

WNH commenced billing the SPC Assessment for consumption commencing on May 1, 2010 and ceased billing for consumption ending on April 30, 2011.

**(C) Please complete the following table related to the SPC.**

SPC Ass (Principal bal	Amount re from custo 2010	Carrying Charges f	December 31, 2010 Year End Balance	December 31, 2010 Year End Charges Balance	Amount recovered customers ir	Carrying Charges f	Forecasted December 31, 2011 Year End Principal Balance	Forecasted December 31, 2011 Year End Carrying Charges Balance	Forecasted Carrying for 2012 (Ja Apr.30)	Total for Disposition (Principal & Interest)
\$529,374	(\$366,444)	\$1,226	\$162,930	\$1,226	(\$184,742)	\$228	(\$21,811)	\$1,454	(\$107)	(\$20,464)

## **Smart Meter Funding Adder**

### **Interrogatory #8**

**Ref: EB-2011-0201, Manager's Summary, Pages 38-41**

***The following example is relevant to Waterloo's request in this application. The Board's Decision and Order with respect to Festival's 2011 IRM Rates Application, issued April 21, 2011, states at page 5:***

***Since the deployment of smart meters on a province-wide basis is now nearing completion, the Board expects distributors to file for a final prudence review at the earliest possible opportunity following the availability of audited costs. For those distributors that are scheduled to file a cost of service application for 2012 distribution rates, the Board expects that they will apply for the disposition of smart meter costs and subsequent inclusion in rate base. For those distributors that are scheduled to remain on IRM, the Board expects these distributors to file an application with the Board seeking final approval for smart meter related costs. In the interim, the Board will approve the requested SMFA of \$1.52 per metered customer per month from May 1, 2011 to April 30, 2012. This SMFA adder will be reflected in the Tariff of Rates and Charges, and will cease on April 30, 2012. Festival Hydro's variance accounts for smart meter program implementation costs, previously authorized by the Board, shall be continued. [Emphasis added]***

***Similar wording was contained in the Board's decisions for many rates applications in 2011.***

- (A) ***Please provide the sunset date that Waterloo would propose for its Smart Meter Funding Adder ("SMFA").***

WNH is proposing a sunset date of April 30, 2013 for its Smart Meter Funding Adder.

- (B) ***Waterloo's existing SMFA of \$1.00 per metered customer was first approved effective May 1, 2009. By December 31, 2012, this SMFA will have been in effect for over 2 years. The SMFA is not intended to be fully compensatory for the revenue requirement for installed smart meters in the historical period. At the same time, the SMFA was envisioned as providing partial recovery for costs until such time as the utility made application for seeking the Board's approval for the disposition and full recovery of costs incurred for smart meter deployment. The SMFA has been allowed to increase in part to recognize the increase in the revenue requirement as smart meter have been deployed. An increased SMFA will also help to reduce the deferred revenue requirement that will remain to be recovered upon disposition.***

- i. If its proposal to continue the SMFA past April 30, 2012 is approved, please provide Waterloo's views as to whether the current SMFA of \$1.00 is adequate as partial recovery of the revenue requirement for installed smart meters in order to avoid a significant deferred revenue requirement recovery when Waterloo makes application for disposition.***

WNH is of the view that the current SMFA of \$1.00 is not adequate as partial recovery of the revenue requirement for installed smart meters in order to avoid a significant deferred revenue requirement recovery and rate impact when WNH makes application for disposition.

As calculated in the Smart Meter Model in IR # 8 (B)(ii), a SMFA of \$1.37 would be a more appropriate and WNH seeking to increase its SMFA in this application to \$1.37.

- ii. Please fill out the attached draft Board staff Smart Meter model to calculate an updated SMFA for the 2012 rate year.***

WNH has attached the completed the Draft Board Staff Smart Meter Model received with the Interrogatories to calculate an updated SMFA for the 2012 rate year.

WNH notes the following:

- a) Sheet 3 – 2011 and 2012

WNH's capital structure was set in its 2011 COS decision, however, WNH was unable to reflect this in the model. When the 4% Deemed Short-term Debt Capitalization was input, the Deemed Long-term Debt Capitalization should have changed to 56% as per the 2011 COS, however the Smart Meter Model showed 60%. Also in the model the Deemed Equity Capitalization changed to 36%, rather than the correct percentage of 40% as per the 2011 COS.

As demonstrated in the table below, the result using the Smart Meter Model is a WACC (Weighted Average Cost of Capital) that is lower than WNH currently has in its rates. As WNH is applying for an increase to its SMFA and not for final disposition, WNH is applying for the \$1.37 SMFA as calculated by the model and anticipates the correct WACC would be used in the final disposition.

Cost of Capital		2011 Cost of Service	Smart Meter Model
<b>Capital Structure</b>			
	Deemed Short-term Debt Capitalization	4%	4%
	Deemed Long-term Debt Capitalization	56%	60%
	Deemed Equity Capitalization	40%	36%
	Preferred Shares	0%	0%
<b>Total</b>		<b>100%</b>	<b>100%</b>
<b>Cost of Capital Parameters</b>			
	Deemed Short-term Debt Rate	2.46%	2.46%
	Long-term Debt Rate (actual/embedded/deemed)	5.22%	5.22%
	Target Return on Equity (ROE)	9.58%	9.58%
	Return on Preferred Shares	0%	0%
<b>WACC</b>		<b>6.85%</b>	<b>6.68%</b>

- b) Sheet 2 Section 2.5.6 – Other AMI Expenses in the Smart Meter Model states “please specify”, however, no open field was available. The costs incurred are primarily material and parts to repair or relocate customer owned meter base equipment.
- c) Sheet 7 Line 42 – Ontario Capital Tax Exemption – in 2008 and 2009 if WNH recorded the Capital Tax Exemption from its Tax Returns, the Deemed Taxable Capital and resulting Capital Tax would be a negative number. WNH, thus, prorated the Exemption on the basis of the Smart Meter Rate Base on Line 41 to the Ontario Taxable Capital on the Tax Returns, and multiplied this percentage by the Exemption on the Tax Returns, to obtain the Exemption on Line 42. WNH has provided the details in the table below.

### Calculation of Ontario Capital Tax Exemption

Description	2008	2009	2010
Rate Base per Sheet 7 of Smart Meter Model	\$ 609,068	\$ 4,711,282	\$ 7,786,925
Taxable Capital per Tax Return	\$ 128,863,644	\$ 107,183,663	\$ 121,413,101
% of Rate Base to Taxable Capital	0.47%	4.40%	6.41%
Ontario Capital Tax Exemption per Tax Return *	\$ 15,000,000	\$ 14,529,300	\$ 7,241,264
Apply % Rate Base to Taxable Capital to Exemption	\$ 70,897	\$ 638,639	\$ 464,424

\* - 2010 Exemption was prorated as follows:

Taxable Capital		14,602,548
x # Days January 1, 2010 - June 30, 2010	x	181
/ # Days in Tax Year	/	365
		<u>7,241,264</u>

- d) WNH has updated its Smart Meter Capital Expenditures for any additional 2011 expenditures incurred since WNH filed its Application on October 26, 2011.
- e) Sheet 7 Line 29– Change in Taxable Income and Line 33 Income Taxes Payable – as the CCA exceeded the Amortization in each of the years 2008 through 2012 the Change in Taxable Income was a negative number. The model then applied the current tax rate and a negative Income Taxes Payable was calculated. This has resulted in WNH being clawed by back in their PILs, and, thus, in their overall revenue requirement. WNH is uncertain as to whether this is an intended policy or a consequence of calculations within the model.

WNH has provided the Smart Meter Model as Attachment B, as well has filed the model in Excel via the Board's web portal.

**Interrogatory #9**  
**Ref: EB-2011-0201, Manager's Summary, Page 41**

Year	Audited Actual or Forecast	Smart Meters Installed			Percentage of applicable customers converted in year (%)	Percentage of applicable customers converted cumulative (%)	Capital Expenditures <sup>3</sup>	Operating Expenses <sup>4,5</sup>	Total for Year	Cumulative Total	% Audited
		Residential	GS < 50 kW	Total							
2006 <sup>1</sup>					0.0%	0.0%			-	-	
2007 <sup>1</sup>					0.0%	0.0%			-	-	
2008	Audited Actual	1,797	64		3.6%	3.6%	631,493		631,493	631,493	
2009	Audited Actual	18,356	571		36.5%	40.1%	4,318,190		4,318,190	4,949,683	
2010	Audited Actual	25,683	2,593		54.5%	94.5%	3,617,602		3,617,602	8,567,285	84.7%
2011 <sup>2</sup>	Forecast	610	2,220		5.5%	100.0%	1,006,494	148,253	1,154,747	9,722,032	
2012	Forecast							388,586	388,586	10,110,618	
<b>Total</b>		<b>46,446</b>	<b>5,448</b>	<b>51,894</b>	<b>100.0%</b>	<b>100.0%</b>	<b>9,573,779</b>	<b>536,839</b>	<b>10,110,618</b>		

(A) **Please explain, in detail, what is the nature of the costs that Waterloo has left to incur (i.e. forecasted costs for 2011 and 2012), with respect to its smart meter implementation.**

WNH has provided details as to the nature of the costs Waterloo has left to incur (forecasted costs for 2011 and 2012) in the table below. Please note the total of the detailed information differs from the table above by the amount of carrying charges included above.

Section	Details	2011	2012
2.1.1	Maintenance (may include meter reverification costs, etc.)		92,101
2.3.2	Usage Fees to Smart Meter Provider to obtain meter reads	13,938	191,100
2.5.6	Meter Base Repair/Relocation Material & Parts	6,869	
	Tower - Electricity Usage	1,267	
2.6.3	Compensation & Expenses **	124,156	100,000
<b>Total</b>		<b>146,230</b>	<b>383,201</b>

\*\* 2011 includes Sept-Dec 2010 costs which were previously missed being recorded in 2010

(B) **Are these costs different than those Waterloo has incurred prior to 2011? If so, please explain the differences.**

WNH hired a Settlement Analyst in September 2010 to manage the integration of the Smart Meters to WNH's CIS system, the TOU Billing and the Integration with the MDM/R. This position will continue to provide these functions.



WNH has forecast Usage Fees Payable to its Smart Meter Provider in order to obtain the meter reads. These costs were not payable prior to 2011 as conditions upon which the fees are payable had not been met.

Smart Meter Maintenance costs were not incurred prior to 2012 as WNH's SMI was going through stages of development, installation and commissioning. Maintenance related costs were covered under warranty. These costs commence becoming attributable to WNH in 2012 due to the age of the equipment and the expiry of the warranty.

All of the costs above are incremental costs required for the smart meter program.

- (C) ***In the above table, Waterloo documents that it will have 100% deployment. Board staff suggests that audited costs to December 31, 2010 represent about 88% of the total costs to 100% deployment of \$9,722,032 estimated for December 31, 2011. Please provide Waterloo's reasons for including the prospective 2012 operating expenses in its analysis.***

WNH notes that the instructions on Sheet 2 of the Smart Meter Model states: *"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."* WNH complied with this direction.

WNH included the 2012 operating expenses in its analysis of the percentage of audited costs as it had been directed to include these operating costs in the calculations. If a final disposition was ordered, these costs would form part of the amount for recovery and thus, they were included in calculation of the percentage of costs that had been audited.

In the Board's Smart Meter Funding and Cost Recovery – Final Disposition (G-2011-0001) issued on December 15, 2011, it states “The Board expects that the majority (i.e. 90% or more) of costs for which the distributor is seeking recover will be audited. This threshold should be assessed against total program costs and not the costs in any individual application.” WNH has demonstrated that it falls below this threshold (84.7%), and although Board Staff's calculated percentage differs from WNH's, both calculations fall below the 90%.

In its application, WNH also provided the following regarding its TOU extension to January 31, 2012:

“Waterloo North Hydro has also received an approval (EB-2011-0240) for a TOU extension to January 31, 2012 for certain customers as detailed in the excerpt below.

*“Waterloo North Hydro Inc.'s distribution licence ED-2002-0575, specifically Schedule 3, List of Code Exemptions, is amended to include an exemption from the requirement to apply time-of-use pricing by a mandatory date under the Standard Supply Service Code for Electricity Distributors, for customers in its General Service under 50 kW customer class with meters with improper time-alignment of the consumption intervals. This exemption will expire on January 31, 2012.”*

In addition, as Waterloo North Hydro stated in its application for the TOU Extension, which has been reproduced below, it is dependent on third parties to resolve the metering issues.

*“Based on the information from the Sensus, and the lack of specific time frames, WNH cannot be definitive at this time as to the TOU pricing commencement date. Sensus has stated that it believes that all necessary steps can be completed to have the meters fully compliant by Jan 31, 2012. Unfortunately, remedies for the situation that WNH finds itself in are not in the hands of WNH, but in the hands of Sensus and Measurement Canada.”*

Thus, Waterloo North Hydro cannot be certain of the accuracy of its forecasted costs to resolve the TOU issues that exist for these customers and as such Waterloo North Hydro is proposing to continue the current SMFA until the costs are more certain.”

Subsequent to WNH’s Application of October 26, 2011 WNH has had another smart meter issue. WNH has been unable to install approximately 200 General Service < 50 kW three phase meters. These meters had to be returned to the supplier for adjustment to be fully operable. WNH anticipates installing the meters in early 2012.

WNH also wishes to note that it does not have a sunset clause in its current rate order for the SMFA.

Given the rationale above, WNH is applying for a SMFA of \$1.37 and not applying for final disposition at this time.

**Lost Revenue Adjustment Mechanism (“LRAM”) Interrogatory #10**  
**Ref: Attachment Z, Burman Energy LRAM Report**

***Waterloo has requested recovery of \$161,037, related to lost revenues from OPA CDM Programs delivered from 2006-2010.***

**(A) Please update the LRAM amount using the 2010 OPA final program results.**

WNH has provided the updated 2010 OPA final program results in Attachment C. WNH notes that the LRAM amount has increased by \$266 to \$157,533 from \$157,267 previously applied for (prior to carrying charges).

**(B) If Waterloo has not received the 2010 OPA final program evaluation results, please discuss when Waterloo expects to receive them and how it will update its LRAM claim.**

Not applicable.

**(C) Please discuss if Waterloo is requesting approval for the lost revenues that have persisted from prior year programs into 2010. Please provide a table that shows the persisting lost revenues from each year that are being claimed in this application.**

WNH is requesting approval for the lost revenues that have persisted from prior year programs in to 2010. Please refer to Attachment B, Sheets "Attachment A – Load Impacts" and "Attachment B – LRAM Amounts" for details for each year.

**(D) Please provide a table that shows the LRAM amounts requested in this application by the year they are associated with and the year the lost revenues took place. Use the table below as an example:**

WNH has provided the requested table below.

Program Years	Years that Lost Revenues Took Place
	2010
2006	\$ 8,420.52
2007	\$ 24,242.79
2008	\$ 27,830.39
2009	\$ 44,379.21
2010	\$ 52,659.70

***(E) Please confirm that Waterloo has not recovered any of the amounts associated with this LRAM claim in the past. If Waterloo has previously recovered amounts included in this application, please provide an updated LRAM amount with these amounts removed.***

WNH confirms that it has not recovered any of the amounts associated with this LRAM claim in the past.

***(F) Please confirm when Waterloo's last load forecast was approved by the Board.***

WNH's last load forecast was approved by the Board in its May 1, 2011 COS filing, EB-2010-0144.

***(G) Please identify the CDM savings that were included in Waterloo's last Board approved load forecast for CDM programs deployed from 2006 to 2010 inclusive.***

WNH included in its 2011 approved load forecast a CDM savings of 5,366,065 kWh for 2010. WNH notes, however, in its 2010 rates for which this LRAM claim relates to, no CDM savings were included.

***(H) Please provide an updated table with an LRAM amount exclusive of any persisting CDM savings that take place in the year of Waterloo's last Board-approved load forecast and later years.***

As WNH's last Board-approved load forecast was effective May 1, 2011, this current calendar year, no LRAM amount can be calculated, nor has WNH applied for its disposition.

**Payments in Lieu of Taxes – PILS 1562**

**Interrogatory #11**  
**Ref: PILs recovery**

***Unmetered scattered load (USL) is not listed as one of the components of the billing and recovery in Waterloo APPL 2012 PILs 1562 Carrying Charge PILs Collected 20111026.xls, although the 2002, 2004, and 2005 Board decisions include USL as one of the rate categories. USL was billed using the GS<50kW rate which included PILs fixed and variable charge slivers.***

***(A) Please explain why the USL connections and energy (kWhs) and the associated rate slivers classified under GS<50kW rate class were not used in the calculation of PILs recoveries from ratepayers.***

WNH has included the USL connections and energy and the associated rate slivers in the GS < 50 kW rate class (and incorrectly labeled it only as GS < 50 kW) in the calculation. WNH had not separated the information as the rates charged were identical. Thus, the PILs recoveries have been captured.

In the Rate Generator Model the PILs 1562 balance has been allocated on the basis of the test year distribution revenue allocation to customer classes found in the Applicant's Cost of Service application that was most recently approved at the time of disposition of the 1562 account balance. This allocation is in compliance with the Board's 1562 decision, thus, the total PILs 1562 balance has been recovered from all rate classes.

**Interrogatory #12**  
**Ref: 1562 balance reported in RRR**

***(A) Waterloo has reported the balance in account 1562 to be a credit of \$1,366,352 at the end of December 2010 in its RRR filing 2.1.7. The 2010 balance according to the PILS disposition sheet (exclusive of interest), is a credit balance of \$1,222,774. Please explain the reasons for the differences between the 2010 RRR balance and the evidence filed in this case.***

WNH notes that the 2010 2.1.7 balance of (\$1,366,352) was split as follows:  
Principal (\$1,316,766) and Interest/Carrying Charges of (\$49,586).

The (\$93,992) principal difference is primarily related to the calculation of the 2002 PILs included in the Service Charge. In preparation for this application, WNH discovered an incorrect number of Service Charges had been recorded in 2002. These have been corrected in the proposed amount of (\$1,222,774) for disposition.

**Interrogatory #13**  
**Ref: Interest Expense**

***Interest Portion of True-up – 2003, 2004, 2005 SIMPIL - TAXCALC***

***When the actual interest expense, as reflected in the financial statements and tax returns, exceeds the maximum deemed interest amount approved by the Board, the excess amount is subject to a claw-back penalty and is shown in sheet TAXCALC as an extra deduction in the true-up calculations.***

***For the tax years 2001 to 2005:***

***(A) Did Waterloo have interest expense related to liabilities other than debt that is disclosed as interest expense in its financial statements?***

WNH had interest expense related to liabilities other than debt disclosed as interest expense, namely Customer Deposit Interest and Remittance/Arrears Interest on HST/OEFC.

***(B)Did Waterloo net interest income against interest expense in deriving the amount it shows as interest expense in its financial statements and tax returns? If yes, please provide details to what the interest income relates.***

WNH netted interest income against interest expense in deriving the amount it shows as interest expense in its financial statements and tax returns.

WNH notes that on page 9 of Board Staff's Submission on Hydro One Brampton Networks Inc., EB-2011-0174, Board Staff stated:

*"Should interest income be deducted in determining interest expense for purposes of the interest claw-back? The Board has not addressed this question to the knowledge of staff. In application filing instructions, applicants were instructed to disclose interest income as an offset to gross revenue requirement in determining the amount of revenue to be recovered through distribution rates.*

*Hydro One Brampton's treatment of interest income as an offset to interest expense for the claw-back calculations, while unique, does not appear to violate any previous Board instruction or policy. Board staff therefore does not oppose this treatment."*

As stated in Board Staff's Submission above, the offset of interest income against interest expense for the claw-back calculations does not appear to violate any previous Board instruction of policy, and WNH submits that this treatment in its Revised SIMPIL models is appropriate.

WNH has provided details of the interest income in the table below.



**Interest Income 2001 - 2005**

	Oct - Dec 2001	2002	2003	2004	2005
<b>Interest Income per Financial Statement</b>	<b>(32,649)</b>	<b>(38,637)</b>	<b>(249,655)</b>	<b>(259,816)</b>	<b>(326,381)</b>
<i>Breakdown:</i>					
General Bank Account Interest Income	(32,649)	(38,637)	(196,472)	(199,794)	(164,337)
Holding Company Loan Interest Income			(31,358)	(53,726)	(44,836)
Prudential Interest Expense (Income)			4,812	(1,699)	4,193
Investment Account Interest Income				(4,596)	(121,401)
PIs Refund Interest Income			(25,699)		
Other Interest Income			(938)		
<b>Total</b>	<b>(32,649)</b>	<b>(38,637)</b>	<b>(249,655)</b>	<b>(259,816)</b>	<b>(326,381)</b>

***(C) Did Waterloo include interest expense on customer security deposits in interest expense for purposes of the interest true-up calculation?***

WNH did include interest expense on customer security deposits in interest expense for purposes of the interest true-up calculation.

***(D) Did Waterloo include interest income on customer security deposits in the disclosed amount of interest expense in its financial statements and tax returns?***

WNH did not include interest income on customer security deposits in the disclosed amount of interest expense in its financial statements and tax returns.

***(E) Did Waterloo include interest expense on IESO prudentials in interest expense?***

WNH did not include interest expense on IESO Prudentials in interest expense as at that time this expense was recorded in the financial statements and tax returns as miscellaneous expense (USoA Account # 5665). The prudential expense (income) shown in IR # 13 (C) is related to prudentials with a distributor and retailers.

***(F) Did Waterloo include interest carrying charges on regulatory assets or liabilities in interest expense?***

WNH did not include interest carrying charges on regulatory assets or liabilities in interest expense.

**(G) Did Waterloo include the amortization of debt issue costs, debt discounts or debt premiums in interest expense? If the answer is yes, did Waterloo North also include the difference between the accounting and tax amortization amounts in the interest true-up calculations? Please explain.**

WNH did not include the amortization of debt issue costs, debt discounts or debt premiums in interest expense.

**(H) Did Waterloo deduct capitalized interest in deriving the interest expense disclosed in its financial statements? If the answer is yes, did Waterloo North add back the capitalized interest to the actual interest expense amount for purposes of the interest true-up calculations? Please explain.**

WNH did not deduct capitalized interest in deriving the interest expense disclosed in its financial statements.

**(I) Please provide Waterloo's views on which types of interest income and interest expense should be included in the excess interest true-up calculations.**

As detailed in IR # 13 (C) above, WNH is of the view that interest income should be allowed to be netted against interest expense for the purposes of the excess interest true-up calculations.

WNH is of the view that Interest Expense on Customer Security Deposits and the IESO Prudential Cost should not be included in the excess interest true-up calculations as they are not costs of financing, they are ongoing business expenses. If a distributor had no short-term or long-term debt, these costs would still have to be incurred. Customer Security Deposits may be repaid within a one year period and as such cannot be counted on as a source of financing. The IESO Prudential Cost is a cost required in order to remain a Market Participant with the IESO, it is not a cost of financing. WNH's understanding of the excess interest true-up calculation was to capture when a distributor exceeded the Board's deemed debt level.

**(J) Please provide a table for the years 2001 to 2005 that shows all of the components of Waterloo's interest expense and the amount associated with each type of interest.**

WNH has provided a table for the years 2001 to 2005 with a breakdown of interest expense below.

**Interest Expense 2001 – 2005**

	Oct - Dec 2001	2002	2003	2004	2005
<b>Interest Expense per Financial Statement</b>	<b>262,882</b>	<b>1,393,332</b>	<b>4,224,700</b>	<b>3,326,755</b>	<b>3,113,954</b>
<i>Breakdown:</i>					
Senior long-term notes payable	272,728	1,250,000	2,995,533	1,828,282	1,525,699
Junior long-term notes payable		-	1,360,681	1,360,681	1,359,145
<i>Other debt:</i>					
Interest on Holding Company Loan	21,725	176,626	103,890		
Customer Deposit Interest		5,343	12,019	21,584	42,888
Remittance/Arrears - HST/OEFC			2,026	21,904	
Bank Loan Interest				354,111	512,602
Other Interest Expense	1,078		205	9	
Interest Income	(32,649)	(38,637)	(249,655)	(259,816)	(326,381)
<b>Total</b>	<b>262,882</b>	<b>1,393,332</b>	<b>4,224,700</b>	<b>3,326,755</b>	<b>3,113,954</b>

## **Smart Meter Model – Version 2.17**

### **Changes and Instructions**

#### **Sheet 1**

- Version number is now 2.17

#### **Sheet 2**

- For all Capital cost rows, there is an added Asset Type for “Applications Software” in the Drop-down List. This may be used if an LDC wants to distinguish from other Computer Software for UCC/CCA calculations only.
- Addition of Row 191 “Applications Software” to breakout this asset class’ capital costs from Computer Software (line 185).

#### **Sheet 3**

- Addition of Rows 66-67 for allow for a new CCA class for Applications Software. The utility should input the CCA class and rate (typically class 12) if used.
- Cell G30 is unlocked although it defaults to a formula. The utility can input the Board-approved Long-term Debt rate from its 2006 EDR application if appropriate and different from the size-related deemed debt rate.

#### **Sheet 4**

- In the calculation of Net Fixed Assets under Computer Software, the amounts include Applications Software (i.e. Computer Software and Applications Software are combined and treated the same for rate base and depreciation/amortization expense purposes).
- Rows for depreciation expense and average net fixed assets have been made open so that the utility can over-ride the average annual NFA and the depreciation expense, if applicable. This would only be done where the utility uses an approved approach such as calculating depreciation on a monthly basis (i.e. from the month that an asset enters service) rather than the standard ½ year rule. If more detailed accounting is used then it is expected that the average NFA would be similarly calculated rather than as the average of the starting and ending annual NFA. The utility may be expected to show its calculations for NFA and depreciation expense on separate sheets.

#### **Sheet 6**

- Rows 64-76 added to calculate the UCC and CCA for the new Applications Software Class

### **Sheet 7**

- Row 27 added, for CCA – Applications Software
- On Row 38, Computer Software includes Applications Software for the calculation of Ontario Capital Tax.

### **Sheet 8**

- Smart Meter Funding Adder (“SMFA”) revenues are entered as positive numbers.
- Column M calculates the simple interest on the monthly opening principal balance times the prescribed interest rate scaled to a monthly rate by dividing by 12 (i.e. number of months in the year). Day weighting is not used.
- Cell L99 is now unlocked although it contains a formula. If the current SMFA continues to April 30, 2012, the utility can enter the prescribed interest rate for Deferral and Variance accounts, currently 1.47%, for the months of January, February, March and April 2012). For January to March, the rate is entered in Cell B48; for April only it is entered into Cell L99.

### **Sheet 8A**

- New sheet that calculates the simple interest on the monthly opening principal balance of OM&A and Amortization/Depreciation expenses. The utility should enter the data from its Account 1556 sub-account data.
- This sheet is an analog to Sheet 8, dealing with interest on OM&A and Amortization/Depreciation expenses instead of SMFA revenues.

### **Sheet 8B**

- New Sheet. If the utility does not have the monthly data for filling out Sheet 8A, Sheet 8B calculates a proxy interest on OM&A and Amortization/Depreciation Expense in each year, based on the average cumulative OM&A and Amortization/Depreciation expense data shown on Sheets 2 and 6. Results from Sheet 8B are a proxy for, but less accurate, than the results from the detailed monthly data on sheet 8A, if that is available.

### **Sheet 9**

- Changes to rows 32-44
- Row 32 adds the interest of OM&A and Amortization Expense from sheet 8A or 8B, depending on which is selected. (See below)

- Rows 35 and 37. The utility selects “X” from the drop-down list for either cell C35 or C37, depending on whether it used sheet 8A (preferred) or sheet 8B for calculating the Interest on OM&A and Amortization/Depreciation Expense. Cells C35 and C37 act as radio buttons – selecting “X” for one will de-select the “X” for the other. Sheet 8A should be used if possible because of the increased accuracy from the monthly data.
- Row 40 now shows the SMFA revenues (principal) for each year.
- Row 42 is added to show the simple monthly interest on SMFA revenues, for each year, from Sheet 8.
- Row 44: Net Deferred Revenues = (Revenue Requirement + Interest on OM&A and Amortization/Depreciation Expense) – (SMFA Revenues + SMFA Interest) for each year.
- Utilities select from drop down for applicability of SMFA (C22), SMDR (C24) and/or SMIRR (C26). For Cost of Service, on C24 (SMDR) should apply. For stand-alone application, C24 (SMDR) and C26 (SMIRR) should be checked. C22 (for a new or continued SMFA) should only be checked and used in justifiable circumstances.
- The utility should then click the “Update Spreadsheet: button in C28. This hides the unused parameters (from SMFA, SMDR and SMIRR)

**General**

- Cell widths have been revised – generally expanded – to allow for display of larger dollar amounts. (i.e. avoid “#####”)

November 16, 2011

# **Attachment A**

## **SPC Assessment Invoice**

**Revised Invoice**  
 Ministry of Energy and Infrastructure  
 Conservation and Renewable Energy Program Costs

**To:** Waterloo North Hydro Inc.  
 300 Northfield Drive East, P.O. Box 640  
 Waterloo, ON N2J 4A3  
 Attn: Rene Gatién, President & CEO

Customer No./No du client 3959
Customer Site No./ N° d'emplacement du client 1061020
Invoice Date/Date de la facture <b>April 16, 2010</b>
Invoice No./N° de la facture 50072
Due Date/ Date d'échéance <b>July 30, 2010</b>
Payment Amount/ Montant remis <b>CAD \$ 529,374</b>

**Item Description:**

Assessment for Ministry of Energy and Infrastructure Conservation and Renewable Energy Program Costs.  
 Quote-part pour les coûts des programme de conservation et d'énergie renouvelable du ministère de l'Énergie et de l'Infrastructure.

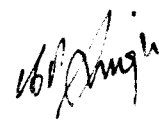
APR 26 2010  
 861  
 POSTED  
 529,374.00  
 PRICE O.K.

*Questions related to the remittance should be directed to the Non-Tax Revenue Management Branch Contact Centre at 1-877-535-0554 or Fax (416) 326-5177. Les questions concernant la remise doivent être posées à l'InfoCentre de la Direction de la gestion des revenus non fiscaux au 1 877 535-0554 ou par télécopieur au 416 326-5177.*

*This assessment was calculated by the Ontario Energy Board, 2300 Yonge St. 27<sup>th</sup> Floor, P.O. Box 2319, Toronto, ON M4P 1E4. Questions related to the invoice should be directed to the Market Operations Hotline 416-440-7604. La présente quote-part a été fixée par la Commission de l'énergie de l'Ontario, 2300, rue Yonge, 27<sup>e</sup> étage, case postale 2319, Toronto (Ontario) M4P 1E4. Les questions relatives à la facture doivent être posées au service de téléassistance du service Activités du marché : 416 440-7604.*

**Payments are to be made to the Minister of Finance not the Ontario Energy Board.  
 Les paiements doivent être faits au ministre des Finances et non à la Commission de l'énergie de l'Ontario.**

77-1110-153-0601





# **Attachment B**

## **Draft Board Staff Smart Meter Model**



Choose Your Utility:

Waterloo North Hydro Inc.	<input type="checkbox"/>
Welland Hydro-Electric System Corp.	<input type="checkbox"/>

Application Contact Information

Name:

Title:

Phone Number:

Email Address:

We are applying for rates effective:

Last COS Re-based Year

Legend

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.*

#N/A

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	Forecast	Forecast		
<b>Smart Meter Installation Plan</b>									
<b>Actual/Planned number of Smart Meters installed during the Calendar Year</b>									
Residential			1,797	18,356	25,683	610		46446	
General Service < 50 kW			64	571	2,593	2,220		5448	
Actual/Planned number of Smart Meters installed (Residential and GS < 50 kW only)	0	0	1861	18927	28276	2830	0	51894	
Percentage of Residential and GS < 50 kW Smart Meter Installations Completed	0.00%	0.00%	3.59%	40.06%	94.55%	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	1861	18927	28276	2830	0	51894	
<b>1 Capital Costs</b>									
<b>1.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)</b>									
	Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
1.1.1 Smart Meters (may include new meters and modules, etc.)	Smart Meter			208,965	3,258,562	1,472,783	444,929		\$ 5,385,239
1.1.2 Installation Costs (may include socket kits, labour, vehicle, benefits, etc.)	Smart Meter			58,368	310,884	1,755,969	254,475		\$ 2,379,696
1.1.3a Workforce Automation Hardware (may include fieldwork handhelds, barcode hardware, etc.)	Computer Hardware								\$ -
1.1.3b Workforce Automation Software (may include fieldwork handhelds, barcode hardware, etc.)	Computer Software			677	6,404	2,898	11,148		\$ 21,127
<b>Total Advanced Metering Communications Devices (AMCD)</b>		\$ -	\$ -	\$ 268,010	\$ 3,575,850	\$ 3,231,650	\$ 710,552	\$ -	\$ 7,786,062
<b>1.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)</b>									
	Asset Type	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
1.2.1 Collectors	Other Equipment			304,083	354,464	107,348	94,939		\$ 860,834
1.2.2 Repeaters (may include radio licence, etc.)	Other Equipment								\$ -
1.2.3 Installation (may include meter seals and rings, collector computer hardware, etc.)	Other Equipment			7,854					\$ 7,854
<b>Total Advanced Metering Regional Collector (AMRC) (Includes LAN)</b>		\$ -	\$ -	\$ 311,937	\$ 354,464	\$ 107,348	\$ 94,939	\$ -	\$ 868,688

		Asset Type							
		Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
<b>1.3 ADVANCED METERING CONTROL COMPUTER (AMCC)</b>									
1.3.1 Computer Hardware	Computer Hardware				221,399				\$ 221,399
1.3.2 Computer Software	Computer Software				19,119		6,912		\$ 26,031
1.3.3 Computer Software Licences & Installation (includes hardware and software) <i>(may include AS/400 disk space, backup and recovery computer, UPS, etc.)</i>	Computer Software				5,805	630	630		\$ 7,065
<b>Total Advanced Metering Control Computer (AMCC)</b>		\$ -	\$ -	\$ -	\$ 246,323	\$ 630	\$ 7,542	\$ -	\$ 254,495
		Asset Type							
		Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
<b>1.4 WIDE AREA NETWORK (WAN)</b>									
1.4.1 Activation Fees	Other Equipment			20,485	7,072	32,728	2,932		\$ 63,217
<b>Total Wide Area Network (WAN)</b>		\$ -	\$ -	\$ 20,485	\$ 7,072	\$ 32,728	\$ 2,932	\$ -	\$ 63,217
		Asset Type							
		Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
<b>1.5 OTHER AMI CAPITAL COSTS RELATED TO MINIMUM FUNCTIONALITY</b>									
1.5.1 Customer Equipment <i>(including repair of damaged equipment)</i>	Other Equipment			4,042	21,395	55,446	5,423		\$ 86,306
1.5.2 AMI Interface to CIS	Computer Software					4,662			\$ 4,662
1.5.3 Professional Fees	Other Equipment			25,242	44,893	25,491	1,244		\$ 96,870
1.5.4 Integration	Computer Software				20,937				\$ 20,937
1.5.5 Program Management									\$ -
1.5.6 Other AMI Capital	Other Equipment			401	35,159	7,918	7,948		\$ 51,426
<b>Total Other AMI Capital Costs Related to Minimum Functionality</b>		\$ -	\$ -	\$ 29,685	\$ 122,384	\$ 93,517	\$ 14,615	\$ -	\$ 260,201
<b>Total Capital Costs Related to Minimum Functionality</b>		\$ -	\$ -	\$ 630,117	\$ 4,306,093	\$ 3,465,873	\$ 830,580	\$ -	\$ 9,232,663
		Asset Type							
		Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
<b>1.6 CAPITAL COSTS BEYOND MINIMUM FUNCTIONALITY</b>									
<i>(Please provide a descriptive title and identify nature of beyond minimum functionality costs)</i>									
1.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06	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 MDM/R, etc.	Applications Software					101,672	81,745		\$ 183,417
<b>Total Capital Costs Beyond Minimum Functionality</b>		\$ -	\$ -	\$ -	\$ -	\$ 101,672	\$ 81,745	\$ -	\$ 183,417
<b>Total Smart Meter Capital Costs</b>		\$ -	\$ -	\$ 630,117	\$ 4,306,093	\$ 3,567,545	\$ 912,325	\$ -	\$ 9,416,080

**2 OM&A Expenses**

	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	
2.1 ADVANCED METERING COMMUNICATION DEVICE (AMCD)								
2.1.1 Maintenance (may include meter reverification costs, etc.)							92,101	\$ 92,101
2.1.2 Other (please specify)								\$ -
<b>Total Incremental AMCD OM&amp;A Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 92,101</u>	<u>\$ 92,101</u>
2.2 ADVANCED METERING REGIONAL COLLECTOR (AMRC) (includes LAN)								
2.2.1 Maintenance								\$ -
2.2.2 Other (please specify) Radio Licence			1,728					\$ 1,728
<b>Total Incremental AMRC OM&amp;A Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 1,728</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 1,728</u>
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) User fees to Software Provider						13,938	191,100	\$ 205,038
<b>Total Incremental AMCC OM&amp;A Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 13,938</u>	<u>\$ 191,100</u>	<u>\$ 205,038</u>
2.4 WIDE AREA NETWORK (WAN)								
2.4.1 WAN Maintenance								\$ -
2.4.2 Other (please specify)								\$ -
<b>Total Incremental AMRC OM&amp;A Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
<b>2.5 OTHER AMI OM&amp;A COSTS RELATED TO MINIMUM FUNCTIONALITY</b>								
2.5.1 Business Process Redesign								\$ -
2.5.2 Customer Communication (may include project communication, etc.)				15,024				\$ 15,024
2.5.3 Program Management								\$ -
2.5.4 Change Management (may include training, etc.)								\$ -
2.5.5 Administration Costs			23		79			\$ 102
2.5.6 Other AMI Expenses (please specify)			1,400	6,172	33,947	8,136		\$ 49,655
<b>Total Other AMI OM&amp;A Costs Related to Minimum Functionality</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 1,423</u>	<u>\$ 21,196</u>	<u>\$ 34,026</u>	<u>\$ 8,136</u>	<u>\$ -</u>	<u>\$ 64,781</u>
<b>TOTAL OM&amp;A COSTS RELATED TO MINIMUM FUNCTIONALITY</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 3,151</u>	<u>\$ 21,196</u>	<u>\$ 34,026</u>	<u>\$ 22,074</u>	<u>\$ 283,201</u>	<u>\$ 363,648</u>
<b>2.6 OM&amp;A COSTS RELATED TO BEYOND MINIMUM FUNCTIONALITY</b> <i>(Please provide a descriptive title and identify nature of beyond minimum functionality costs)</i>	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Audited Actual	Forecast		
2.6.1 Costs related to technical capabilities in the smart meters or related communications infrastructure that exceed those specified in O.Reg 425/06								\$ -
2.6.2 Costs for deployment of smart meters to customers other than residential and small general service								\$ -
2.6.3 Costs for TOU rate implementation, CIS system upgrades, web presentation, integration with the MDM/R, etc.						124,156	100,000	\$ 224,156
<b>Total OM&amp;A Costs Beyond Minimum Functionality</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 124,156</u>	<u>\$ 100,000</u>	<u>\$ 224,156</u>
<b>Total Smart Meter OM&amp;A Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 3,151</u>	<u>\$ 21,196</u>	<u>\$ 34,026</u>	<u>\$ 146,230</u>	<u>\$ 383,201</u>	<u>\$ 587,804</u>

**3 Aggregate Smart Meter Costs by Category**

<b>3.1</b>	<b>Capital</b>									
3.1.1	Smart Meter	\$ -	\$ -	\$ 267,333	\$ 3,569,446	\$ 3,228,752	\$ 699,404	\$ -	\$ 7,764,935	
3.1.2	Computer Hardware	\$ -	\$ -	\$ -	\$ 221,399	\$ -	\$ -	\$ -	\$ 221,399	
3.1.3	Computer Software	\$ -	\$ -	\$ 677	\$ 52,265	\$ 8,190	\$ 18,690	\$ -	\$ 79,822	
3.1.4	Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3.1.5	Other Equipment	\$ -	\$ -	\$ 362,107	\$ 462,983	\$ 228,931	\$ 112,486	\$ -	\$ 1,166,507	
3.1.6	Applications Software	\$ -	\$ -	\$ -	\$ -	\$ 101,672	\$ 81,745	\$ -	\$ 183,417	
<b>3.1.7</b>	<b>Total Capital Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 630,117</u>	<u>\$ 4,306,093</u>	<u>\$ 3,567,545</u>	<u>\$ 912,325</u>	<u>\$ -</u>	<u>\$ 9,416,080</u>	
<b>3.2</b>	<b>OM&amp;A Costs</b>									
<b>3.2.1</b>	<b>Total OM&amp;A Costs</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 3,151</u>	<u>\$ 21,196</u>	<u>\$ 34,026</u>	<u>\$ 146,230</u>	<u>\$ 383,201</u>	<u>\$ 587,804</u>	



#N/A

	2006	2007	2008	2009	2010	2011	2012 and later
<b>Cost of Capital</b>							
<b>Capital Structure<sup>1</sup></b>							
Deemed Short-term Debt Capitalization						4.0%	4.0%
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%	36.0%	36.0%
Preferred Shares							
<b>Total</b>	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>Cost of Capital Parameters</b>							
Deemed Short-term Debt Rate						2.46%	2.46%
Long-term Debt Rate (actual/embedded/deemed) <sup>2</sup>	6.28%	6.28%	6.28%	6.28%	6.28%	5.22%	5.22%
Target Return on Equity (ROE)	9.0%	9.00%	9.00%	9.00%	9.00%	9.58%	9.58%
Return on Preferred Shares							
<b>WACC</b>	7.64%	7.64%	7.55%	7.46%	7.37%	6.68%	6.68%
<b>Working Capital Allowance</b>							
Working Capital Allowance Rate	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%
<i>(% of the sum of Cost of Power + controllable expenses)</i>							
<b>Taxes/PILs</b>							
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%
<b>Depreciation Rates</b>							
<i>(expressed as expected useful life in years)</i>							
Smart Meters - years			15	15	15	15	15
- rate (%)	0.00%	0.00%	6.67%	6.67%	6.67%	6.67%	6.67%
Computer Hardware - years			5	5	5	5	5
- rate (%)	0.00%	0.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Computer Software - years			5	5	5	5	5
- rate (%)	0.00%	0.00%	20.00%	20.00%	20.00%	20.00%	20.00%
Tools & Equipment - years			10	10	10	7	7
- rate (%)	0.00%	0.00%	10.00%	10.00%	10.00%	14.29%	14.29%
Other Equipment - years			15	15	15	10	10
- rate (%)	0.00%	0.00%	6.67%	6.67%	6.67%	10.00%	10.00%
<b>CCA Rates</b>							
Smart Meters - CCA Class			8	8	8	8	8
Smart Meters - CCA Rate			20%	20%	20%	20%	20%
Computer Equipment - CCA Class			50	50	50	50	50
Computer Equipment - CCA Rate			55%	55%	55%	55%	55%
General Equipment - CCA Class			8	8	8	8	8
General Equipment - CCA Rate			20%	20%	20%	20%	20%
Applications Software - CCA Class			12	12	12	12	12
Applications Software - CCA Rate			100%	100%	100%	100%	100%

**Assumptions**

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



#N/A

	2006	2007	2008	2009	2010	2011	2012 and later
<b>Net Fixed Assets - Smart Meters</b>							
<b>Gross Book Value</b>							
Opening Balance		\$ -	\$ -	\$ 267,333	\$ 3,836,779	\$ 7,065,531	\$ 7,764,935
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ 267,333	\$ 3,569,446	\$ 3,228,752	\$ 699,404	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 267,333	\$ 3,836,779	\$ 7,065,531	\$ 7,764,935	\$ 7,764,935
<b>Accumulated Depreciation</b>							
Opening Balance		\$ -	\$ -	\$ 8,911	\$ 145,715	\$ 509,125	\$ 1,003,474
Amortization expense during year	\$ -	\$ -	\$ 8,911	\$ 136,804	\$ 363,410	\$ 494,349	\$ 517,662
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 8,911	\$ 145,715	\$ 509,125	\$ 1,003,474	\$ 1,521,136
<b>Net Book Value</b>							
Opening Balance	\$ -	\$ -	\$ -	\$ 258,422	\$ 3,691,064	\$ 6,556,406	\$ 6,761,461
Closing Balance	\$ -	\$ -	\$ 258,422	\$ 3,691,064	\$ 6,556,406	\$ 6,761,461	\$ 6,243,799
Average Net Book Value	\$ -	\$ -	\$ 129,211	\$ 1,974,743	\$ 5,123,735	\$ 6,658,933	\$ 6,502,630
<b>Net Fixed Assets - Computer Hardware</b>							
<b>Gross Book Value</b>							
Opening Balance		\$ -	\$ -	\$ -	\$ 221,399	\$ 221,399	\$ 221,399
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ 221,399	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 221,399	\$ 221,399	\$ 221,399	\$ 221,399
<b>Accumulated Depreciation</b>							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 22,140	\$ 66,420	\$ 110,700
Amortization expense during year	\$ -	\$ -	\$ -	\$ 22,140	\$ 44,280	\$ 44,280	\$ 44,280
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ 22,140	\$ 66,420	\$ 110,700	\$ 154,979
<b>Net Book Value</b>							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ 199,259	\$ 154,979	\$ 110,700
Closing Balance	\$ -	\$ -	\$ -	\$ 199,259	\$ 154,979	\$ 110,700	\$ 66,420
Average Net Book Value	\$ -	\$ -	\$ -	\$ 99,630	\$ 177,119	\$ 132,839	\$ 88,560
<b>Net Fixed Assets - Computer Software (including Applications Software)</b>							
<b>Gross Book Value</b>							
Opening Balance		\$ -	\$ -	\$ 677	\$ 52,942	\$ 162,804	\$ 263,239
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ 677	\$ 52,265	\$ 109,862	\$ 100,435	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 677	\$ 52,942	\$ 162,804	\$ 263,239	\$ 263,239
<b>Accumulated Depreciation</b>							
Opening Balance	\$ -	\$ -	\$ -	\$ 68	\$ 5,430	\$ 27,004	\$ 69,609
Amortization expense during year	\$ -	\$ -	\$ 68	\$ 5,362	\$ 21,575	\$ 42,604	\$ 52,648
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 68	\$ 5,430	\$ 27,004	\$ 69,609	\$ 122,256
<b>Net Book Value</b>							
Opening Balance	\$ -	\$ -	\$ -	\$ 609	\$ 47,512	\$ 135,800	\$ 193,631
Closing Balance	\$ -	\$ -	\$ 609	\$ 47,512	\$ 135,800	\$ 193,631	\$ 140,983
Average Net Book Value	\$ -	\$ -	\$ 305	\$ 24,061	\$ 91,656	\$ 164,715	\$ 167,307
<b>Net Fixed Assets - Tools and Equipment</b>							
<b>Gross Book Value</b>							
Opening Balance		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Accumulated Depreciation</b>							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortization expense during year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Net Book Value</b>							
Opening Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Average Net Book Value	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Net Fixed Assets - Other Equipment</b>							
<b>Gross Book Value</b>							
Opening Balance		\$ -	\$ -	\$ 362,107	\$ 825,090	\$ 1,054,021	\$ 1,166,507
Capital Additions during year (from Smart Meter Costs)	\$ -	\$ -	\$ 362,107	\$ 462,983	\$ 228,931	\$ 112,486	\$ -
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 362,107	\$ 825,090	\$ 1,054,021	\$ 1,166,507	\$ 1,166,507
<b>Accumulated Depreciation</b>							
Opening Balance	\$ -	\$ -	\$ -	\$ 12,070	\$ 51,643	\$ 114,281	\$ 225,307
Amortization expense during year	\$ -	\$ -	\$ 12,070	\$ 39,573	\$ 62,637	\$ 111,026	\$ 116,651
Retirements/Removals (if applicable)							
Closing Balance	\$ -	\$ -	\$ 12,070	\$ 51,643	\$ 114,281	\$ 225,307	\$ 341,958
<b>Net Book Value</b>							
Opening Balance	\$ -	\$ -	\$ -	\$ 350,037	\$ 773,447	\$ 939,741	\$ 941,200
Closing Balance	\$ -	\$ -	\$ 350,037	\$ 773,447	\$ 939,741	\$ 941,200	\$ 824,549
Average Net Book Value	\$ -	\$ -	\$ 175,018	\$ 561,742	\$ 856,594	\$ 940,470	\$ 882,874





# Ontario Energy Board

## Smart Meter Model

#N/A

	2006	2007	2008	2009	2010	2011	2012 and Later
<b>Average Net Fixed Asset Values (from Sheet 4)</b>							
Smart Meters	\$ -	\$ -	\$ 129,211	\$ 1,974,743	\$ 5,123,735	\$ 6,658,933	\$ 6,502,630
Computer Hardware	\$ -	\$ -	\$ -	\$ 99,630	\$ 177,119	\$ 132,839	\$ 88,560
Computer Software	\$ -	\$ -	\$ 305	\$ 24,061	\$ 91,656	\$ 164,715	\$ 167,307
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ 175,018	\$ 561,742	\$ 856,594	\$ 940,470	\$ 882,874
<b>Total Net Fixed Assets</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 304,534</b>	<b>\$ 2,660,175</b>	<b>\$ 6,249,104</b>	<b>\$ 7,896,958</b>	<b>\$ 7,641,370</b>
<b>Working Capital</b>							
Operating Expenses (from Sheet 2)	\$ -	\$ -	\$ 3,151	\$ 21,196	\$ 34,026	\$ 146,230	\$ 383,201
Working Capital Factor (from Sheet 3)	15%	15%	15%	15%	15%	15%	15%
Working Capital Allowance	\$ -	\$ -	\$ 473	\$ 3,179	\$ 5,104	\$ 21,935	\$ 57,480
<b>Incremental Smart Meter Rate Base</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 305,007</b>	<b>\$ 2,663,354</b>	<b>\$ 6,254,208</b>	<b>\$ 7,918,893</b>	<b>\$ 7,698,851</b>
<b>Return on Rate Base</b>							
<b>Capital Structure</b>							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 316,756	\$ 307,954
Deemed Long Term Debt	\$ -	\$ -	\$ 162,569	\$ 1,510,122	\$ 3,752,525	\$ 4,751,336	\$ 4,619,310
Equity	\$ -	\$ -	\$ 142,438	\$ 1,153,232	\$ 2,501,683	\$ 2,850,801	\$ 2,771,586
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Capitalization</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 305,007</b>	<b>\$ 2,663,354</b>	<b>\$ 6,254,208</b>	<b>\$ 7,918,893</b>	<b>\$ 7,698,851</b>
<b>Return on</b>							
Deemed Short Term Debt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,792	\$ 7,576
Deemed Long Term Debt	\$ -	\$ -	\$ 10,209	\$ 94,836	\$ 235,659	\$ 247,817	\$ 240,931
Equity	\$ -	\$ -	\$ 12,819	\$ 103,791	\$ 225,151	\$ 273,107	\$ 265,518
Preferred Shares	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Return on Capital</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 23,029</b>	<b>\$ 198,627</b>	<b>\$ 460,810</b>	<b>\$ 528,716</b>	<b>\$ 514,024</b>
<b>Operating Expenses</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,151</b>	<b>\$ 21,196</b>	<b>\$ 34,026</b>	<b>\$ 146,230</b>	<b>\$ 383,201</b>
<b>Amortization Expenses (from Sheet 4)</b>							
Smart Meters	\$ -	\$ -	\$ 8,911	\$ 136,804	\$ 363,410	\$ 494,349	\$ 517,662
Computer Hardware	\$ -	\$ -	\$ -	\$ 22,140	\$ 44,280	\$ 44,280	\$ 44,280
Computer Software	\$ -	\$ -	\$ 68	\$ 5,362	\$ 21,575	\$ 42,604	\$ 52,648
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ 12,070	\$ 39,573	\$ 62,637	\$ 111,026	\$ 116,651
<b>Total Amortization Expense in Year</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 21,049</b>	<b>\$ 203,879</b>	<b>\$ 491,902</b>	<b>\$ 692,259</b>	<b>\$ 731,241</b>
<b>Incremental Revenue Requirement before Taxes/PILs</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 47,229</b>	<b>\$ 423,701</b>	<b>\$ 986,738</b>	<b>\$ 1,367,205</b>	<b>\$ 1,628,466</b>
<b>Calculation of Taxable Income</b>							
Incremental Operating Expenses	\$ -	\$ -	\$ 3,151	\$ 21,196	\$ 34,026	\$ 146,230	\$ 383,201
Amortization Expense	\$ -	\$ -	\$ 21,049	\$ 203,879	\$ 491,902	\$ 692,259	\$ 731,241
Interest Expense	\$ -	\$ -	\$ 10,209	\$ 94,836	\$ 235,659	\$ 255,609	\$ 248,506
<b>Net Income for Taxes/PILs</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 12,819</b>	<b>\$ 103,791</b>	<b>\$ 225,151</b>	<b>\$ 273,107</b>	<b>\$ 265,518</b>
<b>Grossed-up Taxes/PILs (from Sheet 7)</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 13,529.98</b>	<b>\$ 130,914.15</b>	<b>\$ 267,454.09</b>	<b>\$ 212,873.62</b>	<b>\$ 86,046.53</b>
<b>Revenue Requirement, including Grossed-up Taxes/PILs</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 33,699</b>	<b>\$ 292,787</b>	<b>\$ 719,284</b>	<b>\$ 1,154,332</b>	<b>\$ 1,542,420</b>



Ontario Energy Board

Smart Meter Model

#N/A

## For PILs Calculation

### UCC - Smart Meters

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Forecast	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ 240,599.70	\$ 3,404,981.16	\$ 5,629,861.73	\$ 5,133,352.98
Capital Additions	\$ -	\$ -	\$ 267,333.00	\$ 3,569,446.00	\$ 3,228,752.00	\$ 699,404.00	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ 267,333.00	\$ 3,810,045.70	\$ 6,633,733.16	\$ 6,329,265.73	\$ 5,133,352.98
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ 133,666.50	\$ 1,784,723.00	\$ 1,614,376.00	\$ 349,702.00	\$ -
Reduced UCC	\$ -	\$ -	\$ 133,666.50	\$ 2,025,322.70	\$ 5,019,357.16	\$ 5,979,563.73	\$ 5,133,352.98
CCA Rate Class	0	0	8	8	8	8	8
CCA Rate	0%	0%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ 26,733.30	\$ 405,064.54	\$ 1,003,871.43	\$ 1,195,912.75	\$ 1,026,670.60
Closing UCC	\$ -	\$ -	\$ 240,599.70	\$ 3,404,981.16	\$ 5,629,861.73	\$ 5,133,352.98	\$ 4,106,682.39

### UCC - Computer Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Forecast	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ 490.83	\$ 198,627.27	\$ 95,320.02	\$ 56,444.26
Capital Additions Computer Hardware	\$ -	\$ -	\$ -	\$ 221,399.00	\$ -	\$ -	\$ -
Capital Additions Computer Software	\$ -	\$ -	\$ 677.00	\$ 52,265.00	\$ 8,190.00	\$ 18,690.00	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ 677.00	\$ 274,154.83	\$ 206,817.27	\$ 114,010.02	\$ 56,444.26
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ 338.50	\$ 136,832.00	\$ 4,095.00	\$ 9,345.00	\$ -
Reduced UCC	\$ -	\$ -	\$ 338.50	\$ 137,322.83	\$ 202,722.27	\$ 104,665.02	\$ 56,444.26
CCA Rate Class	0	0	50	50	50	50	50
CCA Rate	0%	0%	55%	55%	55%	55%	55%
CCA	\$ -	\$ -	\$ 186.18	\$ 75,527.55	\$ 111,497.25	\$ 57,565.76	\$ 31,044.34
Closing UCC	\$ -	\$ -	\$ 490.83	\$ 198,627.27	\$ 95,320.02	\$ 56,444.26	\$ 25,399.92

### UCC - General Equipment

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Forecast	2012 and later Forecast
Opening UCC	\$ -	\$ -	\$ -	\$ 325,896.30	\$ 677,401.74	\$ 747,959.32	\$ 699,604.55
Capital Additions Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Capital Additions Other Equipment	\$ -	\$ -	\$ 362,107.00	\$ 462,983.00	\$ 228,931.03	\$ 112,485.66	\$ -
Retirements/Removals (if applicable)							
UCC Before Half Year Rule	\$ -	\$ -	\$ 362,107.00	\$ 788,879.30	\$ 906,332.77	\$ 860,444.98	\$ 699,604.55
Half Year Rule (1/2 Additions - Disposals)	\$ -	\$ -	\$ 181,053.50	\$ 231,491.50	\$ 114,465.52	\$ 56,242.83	\$ -
Reduced UCC	\$ -	\$ -	\$ 181,053.50	\$ 557,387.80	\$ 791,867.26	\$ 804,202.15	\$ 699,604.55
CCA Rate Class	0	0	8	8	8	8	8
CCA Rate	0%	0%	20%	20%	20%	20%	20%
CCA	\$ -	\$ -	\$ 36,210.70	\$ 111,477.56	\$ 158,373.45	\$ 160,840.43	\$ 139,920.91
Closing UCC	\$ -	\$ -	\$ 325,896.30	\$ 677,401.74	\$ 747,959.32	\$ 699,604.55	\$ 559,683.64



#N/A

## PILs Calculation

	2006 Audited Actual	2007 Audited Actual	2008 Audited Actual	2009 Audited Actual	2010 Audited Actual	2011 Forecast	2012 and later Forecast
<b>INCOME TAX</b>							
Net Income	\$ -	\$ -	\$ 12,819.43	\$ 103,790.92	\$ 225,151.48	\$ 273,106.77	\$ 265,517.96
Amortization	\$ -	\$ -	\$ 21,049.03	\$ 203,878.77	\$ 491,901.77	\$ 692,259.35	\$ 731,240.60
CCA - Smart Meters	\$ -	\$ -	\$ 26,733.30	\$ 405,064.54	\$ 1,003,871.43	\$ 1,195,912.75	\$ 1,026,670.60
CCA - Computers	\$ -	\$ -	\$ 186.18	\$ 75,527.55	\$ 111,497.25	\$ 57,565.76	\$ 31,044.34
CCA - Applications Software	\$ -	\$ -	\$ -	\$ -	\$ 50,836.00	\$ 91,708.50	\$ 40,872.50
CCA - Other Equipment	\$ -	\$ -	\$ 36,210.70	\$ 111,477.56	\$ 158,373.45	\$ 160,840.43	\$ 139,920.91
Change in taxable income	\$ -	\$ -	\$ 29,261.71	\$ 284,399.96	\$ 607,524.89	\$ 540,661.32	\$ 241,749.79
Tax Rate (from Sheet 3)	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Income Taxes Payable	\$ -	\$ -	\$ 9,802.67	\$ 93,851.99	\$ 188,332.71	\$ 152,736.82	\$ 63,459.32
<b>ONTARIO CAPITAL TAX</b>							
Smart Meters	\$ -	\$ -	\$ 258,421.90	\$ 3,691,064.17	\$ 6,556,405.83	\$ 6,761,460.97	\$ 6,243,798.63
Computer Hardware	\$ -	\$ -	\$ -	\$ 199,259.10	\$ 154,979.30	\$ 110,699.50	\$ 66,419.70
Computer Software (Including Application Software)	\$ -	\$ -	\$ 609.30	\$ 47,512.40	\$ 135,799.80	\$ 193,630.50	\$ 140,982.70
Tools & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Equipment	\$ -	\$ -	\$ 350,036.77	\$ 773,446.53	\$ 939,740.53	\$ 941,199.80	\$ 824,549.13
Rate Base	\$ -	\$ -	\$ 609,067.97	\$ 4,711,282.20	\$ 7,786,925.46	\$ 8,006,990.77	\$ 7,275,750.17
Less: Exemption	\$ -	\$ -	\$ 70,896.80	\$ 638,638.67	\$ 464,424.21	\$ -	\$ -
Deemed Taxable Capital	\$ -	\$ -	\$ 538,171.17	\$ 4,072,643.53	\$ 7,322,501.26	\$ 8,006,990.77	\$ 7,275,750.17
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)	\$ -	\$ -	\$ 1,210.89	\$ 9,163.45	\$ 5,491.88	\$ -	\$ -
Change in Income Taxes Payable	\$ -	\$ -	\$ 9,802.67	\$ 93,851.99	\$ 188,332.71	\$ 152,736.82	\$ 63,459.32
Change in OCT	\$ -	\$ -	\$ 1,210.89	\$ 9,163.45	\$ 5,491.88	\$ -	\$ -
PILs	\$ -	\$ -	\$ 8,591.79	\$ 84,688.54	\$ 182,840.84	\$ 152,736.82	\$ 63,459.32
<b>Gross Up PILs</b>							
Tax Rate	36.12%	36.12%	33.50%	33.00%	31.00%	28.25%	26.25%
Change in Income Taxes Payable	\$ -	\$ -	\$ 14,740.86	\$ 140,077.59	\$ 272,945.96	\$ 212,873.62	\$ 86,046.53
Change in OCT	\$ -	\$ -	\$ 1,210.89	\$ 9,163.45	\$ 5,491.88	\$ -	\$ -
PILs	\$ -	\$ -	\$ 13,529.98	\$ 130,914.15	\$ 267,454.09	\$ 212,873.62	\$ 86,046.53



#N/A

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	\$ -	\$ 12,339.68	4.14%	\$ -	\$ 12,339.68		
2007 Q2	4.59%	4.72%	Jun-06	2006	Q2	\$ 12,339.68	\$ 12,347.18	4.14%	\$ 42.57	\$ 24,729.44		
2007 Q3	4.59%	5.18%	Jul-06	2006	Q3	\$ 24,686.87	\$ 12,367.36	4.59%	\$ 94.43	\$ 37,148.65		
2007 Q4	5.14%	5.18%	Aug-06	2006	Q3	\$ 37,054.22	\$ 12,387.57	4.59%	\$ 141.73	\$ 49,583.52		
2008 Q1	5.14%	5.18%	Sep-06	2006	Q3	\$ 49,441.79	\$ 12,407.81	4.59%	\$ 189.11	\$ 62,038.71		
2008 Q2	4.08%	5.18%	Oct-06	2006	Q4	\$ 61,849.60	\$ 12,428.09	4.59%	\$ 236.57	\$ 74,514.26		
2008 Q3	3.35%	5.43%	Nov-06	2006	Q4	\$ 74,277.69	\$ 12,906.72	4.59%	\$ 284.11	\$ 87,468.52		
2008 Q4	3.35%	5.43%	Dec-06	2006	Q4	\$ 87,184.41	\$ 13,225.73	4.59%	\$ 333.48	\$ 100,743.62	\$ 101,732.14	
2009 Q1	2.45%	6.61%	Jan-07	2007	Q1	\$ 100,410.14	\$ 13,708.83	4.59%	\$ 384.07	\$ 114,503.04		
2009 Q2	1.00%	6.61%	Feb-07	2007	Q1	\$ 114,118.97	\$ 10,668.95	4.59%	\$ 436.51	\$ 125,224.43		
2009 Q3	0.55%	5.67%	Mar-07	2007	Q1	\$ 124,787.92	\$ 13,519.88	4.59%	\$ 477.31	\$ 138,785.11		
2009 Q4	0.55%	4.66%	Apr-07	2007	Q2	\$ 138,307.80	\$ 14,126.61	4.59%	\$ 529.03	\$ 152,963.44		
2010 Q1	0.55%	4.34%	May-07	2007	Q2	\$ 152,434.41	\$ 12,387.14	4.59%	\$ 583.06	\$ 165,404.61		
2010 Q2	0.55%	4.34%	Jun-07	2007	Q2	\$ 164,821.55	\$ 11,616.13	4.59%	\$ 630.44	\$ 177,068.12		
2010 Q3	0.89%	4.66%	Jul-07	2007	Q3	\$ 176,437.68	\$ 13,293.62	4.59%	\$ 674.87	\$ 190,406.17		
2010 Q4	1.20%	4.01%	Aug-07	2007	Q3	\$ 189,731.30	\$ 12,149.67	4.59%	\$ 725.72	\$ 202,606.69		
2011 Q1	1.47%	4.29%	Sep-07	2007	Q3	\$ 201,880.97	\$ 13,114.30	4.59%	\$ 772.19	\$ 215,767.46		
2011 Q2	1.47%	4.29%	Oct-07	2007	Q4	\$ 214,995.27	\$ 12,921.83	5.14%	\$ 920.90	\$ 228,838.00		
2011 Q3	1.47%	4.29%	Nov-07	2007	Q4	\$ 227,917.10	\$ 12,263.06	5.14%	\$ 976.24	\$ 241,156.40		
2011 Q4	1.47%	4.29%	Dec-07	2007	Q4	\$ 240,180.16	\$ 13,039.95	5.14%	\$ 1,028.77	\$ 254,248.88	\$ 160,949.08	
2012 Q1	1.47%	4.29%	Jan-08	2008	Q1	\$ 253,220.11	\$ 13,672.08	5.14%	\$ 1,084.63	\$ 267,976.82		
2012 Q2	1.47%	4.29%	Feb-08	2008	Q1	\$ 266,892.19	\$ 12,105.39	5.14%	\$ 1,143.19	\$ 280,140.77		
2012 Q3	1.47%	4.29%	Mar-08	2008	Q1	\$ 278,997.58	\$ 13,293.24	5.14%	\$ 1,195.04	\$ 293,485.86		
2012 Q4	1.47%	4.29%	Apr-08	2008	Q2	\$ 292,290.82	\$ 12,139.90	4.08%	\$ 993.79	\$ 305,424.51		
			May-08	2008	Q2	\$ 304,430.72	\$ 13,293.38	4.08%	\$ 1,035.06	\$ 318,759.16		
			Jun-08	2008	Q2	\$ 317,724.10	\$ 12,524.58	4.08%	\$ 1,080.26	\$ 331,328.94		
			Jul-08	2008	Q3	\$ 330,248.68	\$ 13,202.39	3.35%	\$ 921.94	\$ 344,373.01		
			Aug-08	2008	Q3	\$ 343,451.07	\$ 12,924.50	3.35%	\$ 958.80	\$ 357,334.37		
			Sep-08	2008	Q3	\$ 356,375.57	\$ 13,018.84	3.35%	\$ 994.88	\$ 370,389.29		
			Oct-08	2008	Q4	\$ 369,394.41	\$ 12,909.86	3.35%	\$ 1,031.23	\$ 383,335.50		
			Nov-08	2008	Q4	\$ 382,304.27	\$ 12,794.78	3.35%	\$ 1,067.27	\$ 396,166.32		
			Dec-08	2008	Q4	\$ 395,099.05	\$ 13,768.91	3.35%	\$ 1,102.98	\$ 409,970.94	\$ 168,256.92	
			Jan-09	2009	Q1	\$ 408,867.96	\$ 13,964.84	2.45%	\$ 834.77	\$ 423,667.57		
			Feb-09	2009	Q1	\$ 422,832.80	\$ 12,152.29	2.45%	\$ 863.28	\$ 435,848.37		
			Mar-09	2009	Q1	\$ 434,985.09	\$ 13,011.36	2.45%	\$ 888.09	\$ 448,884.54		
			Apr-09	2009	Q2	\$ 447,996.45	\$ 13,026.64	1.00%	\$ 373.33	\$ 461,396.42		
			May-09	2009	Q2	\$ 461,023.09	\$ 50,984.68	1.00%	\$ 384.19	\$ 512,391.96		
			Jun-09	2009	Q2	\$ 512,007.77	\$ 50,471.82	1.00%	\$ 426.67	\$ 562,906.26		
			Jul-09	2009	Q3	\$ 562,479.59	\$ 51,059.12	0.55%	\$ 257.80	\$ 613,796.51		
			Aug-09	2009	Q3	\$ 613,538.71	\$ 48,737.92	0.55%	\$ 281.21	\$ 662,557.84		
			Sep-09	2009	Q3	\$ 662,276.63	\$ 51,501.72	0.55%	\$ 303.54	\$ 714,081.88		
			Oct-09	2009	Q4	\$ 713,778.34	\$ 49,508.86	0.55%	\$ 327.15	\$ 763,614.36		
			Nov-09	2009	Q4	\$ 763,287.21	\$ 49,499.05	0.55%	\$ 349.84	\$ 813,136.10		
			Dec-09	2009	Q4	\$ 812,786.26	\$ 53,559.22	0.55%	\$ 372.53	\$ 866,718.00	\$ 463,139.91	
			Jan-10	2010	Q1	\$ 866,345.47	\$ 48,725.48	0.55%	\$ 397.08	\$ 915,468.03		
			Feb-10	2010	Q1	\$ 915,070.95	\$ 53,383.66	0.55%	\$ 419.41	\$ 968,874.02		
			Mar-10	2010	Q1	\$ 968,454.61	\$ 51,089.95	0.55%	\$ 443.88	\$ 1,019,988.44		
			Apr-10	2010	Q2	\$ 1,019,544.56	\$ 50,283.10	0.55%	\$ 467.29	\$ 1,070,294.94		
			May-10	2010	Q2	\$ 1,069,827.65	\$ 53,921.91	0.55%	\$ 490.34	\$ 1,124,239.90		
			Jun-10	2010	Q2	\$ 1,123,749.56	\$ 50,966.91	0.55%	\$ 515.05	\$ 1,175,231.52		
			Jul-10	2010	Q3	\$ 1,174,716.47	\$ 51,775.71	0.89%	\$ 871.25	\$ 1,227,363.43		
			Aug-10	2010	Q3	\$ 1,226,492.18	\$ 51,422.05	0.89%	\$ 909.65	\$ 1,278,823.88		
			Sep-10	2010	Q3	\$ 1,277,914.23	\$ 49,742.97	0.89%	\$ 947.79	\$ 1,328,604.98		
			Oct-10	2010	Q4	\$ 1,327,657.19	\$ 52,950.27	1.20%	\$ 1,327.66	\$ 1,381,935.12		
			Nov-10	2010	Q4	\$ 1,380,607.46	\$ 51,866.54	1.20%	\$ 1,380.61	\$ 1,433,854.62		
			Dec-10	2010	Q4	\$ 1,432,474.01	\$ 54,232.90	1.20%	\$ 1,432.47	\$ 1,488,139.38	\$ 629,963.91	
			Jan-11	2011	Q1	\$ 1,486,706.91	\$ 55,463.27	1.47%	\$ 1,821.22	\$ 1,543,991.40		
			Feb-11	2011	Q1	\$ 1,542,170.18	\$ 46,272.47	1.47%	\$ 1,889.16	\$ 1,590,331.80		
			Mar-11	2011	Q1	\$ 1,588,442.64	\$ 52,107.41	1.47%	\$ 1,945.84	\$ 1,642,495.89		
			Apr-11	2011	Q2	\$ 1,640,550.05	\$ 51,993.99	1.47%	\$ 2,009.67	\$ 1,694,553.71		
			May-11	2011	Q2	\$ 1,692,544.04	\$ 55,124.89	1.47%	\$ 2,073.37	\$ 1,749,742.31		
			Jun-11	2011	Q2	\$ 1,747,668.94	\$ 51,407.21	1.47%	\$ 2,140.89	\$ 1,801,217.04		
			Jul-11	2011	Q3	\$ 1,799,076.15	\$ 52,214.93	1.47%	\$ 2,203.87	\$ 1,853,494.94		
			Aug-11	2011	Q3	\$ 1,851,291.07	\$ 52,711.07	1.47%	\$ 2,267.83	\$ 1,906,269.97		
			Sep-11	2011	Q3	\$ 1,904,002.14	\$ 52,021.43	1.47%	\$ 2,332.40	\$ 1,958,355.97		
			Oct-11	2011	Q4	\$ 1,956,023.57	\$ 52,106.25	1.47%	\$ 2,396.13	\$ 2,010,525.95		
			Nov-11	2011	Q4	\$ 2,008,129.82	\$ 51,299.09	1.47%	\$ 2,459.96	\$ 2,061,888.87		
			Dec-11	2011	Q4	\$ 2,059,428.91	\$ 53,000.00	1.47%	\$ 2,522.80	\$ 2,114,951.71	\$ 651,785.15	
			Jan-12	2012	Q1	\$ 2,112,428.91	\$ 53,018.00	1.47%	\$ 2,587.73	\$ 2,168,034.64		
			Feb-12	2012	Q1	\$ 2,165,446.91	\$ 53,018.00	1.47%	\$ 2,652.67	\$ 2,221,117.58		
			Mar-12	2012	Q1	\$ 2,218,464.91	\$ 53,018.00	1.47%	\$ 2,717.62	\$ 2,274,200.53		
			Apr-12	2012	Q2	\$ 2,271,482.91	\$ 53,018.00	1.47%	\$ 2,782.57	\$ 2,327,283.48		
			May-12	2012	Q2	\$ 2,324,500.91	\$ 53,018.00	1.47%	\$ 2,847.51	\$ 2,380,366.42		



#N/A

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)
			Jun-12	2012	Q2	\$ 2,377,518.91	\$ 53,018.00	1.47%	\$ 2,912.46	\$ 2,433,449.37		
			Jul-12	2012	Q3	\$ 2,430,536.91	\$ 53,018.00	1.47%	\$ 2,977.41	\$ 2,486,532.32		
			Aug-12	2012	Q3	\$ 2,483,554.91	\$ 53,018.00	1.47%	\$ 3,042.35	\$ 2,539,615.26		
			Sep-12	2012	Q3	\$ 2,536,572.91	\$ 53,018.00	1.47%	\$ 3,107.30	\$ 2,592,698.21		
			Oct-12	2012	Q4	\$ 2,589,590.91	\$ 53,018.00	1.47%	\$ 3,172.25	\$ 2,645,781.16		
			Nov-12	2012	Q4	\$ 2,642,608.91	\$ 53,018.00	1.47%	\$ 3,237.20	\$ 2,698,864.11		
			Dec-12	2012	Q4	\$ 2,695,626.91	\$ 53,018.00	1.47%	\$ 3,302.14	\$ 2,751,947.05	\$ 671,555.21	
<b>Total Funding Adder Revenues Collected</b>						<b>\$ 2,748,644.91</b>	<b>\$ 2,748,644.91</b>	<b>\$ 98,737.41</b>	<b>\$ 2,847,382.32</b>	<b>\$ 2,847,382.32</b>		



#N/A

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)		Amortization / Depreciation Expense	Closing Balance (Principal)	(Annual) Interest Rate	Interest (on opening balance)	Cumulative Interest
						OM&A Expenses						
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		-	\$ 1,750.83	1,750.83	4.08%	-	-
			May-08	2008	Q2		1,750.83	\$ -	1,750.83	4.08%	5.95	5.95
			Jun-08	2008	Q2		1,750.83	\$ - \$ 3,000.55	4,751.38	4.08%	5.95	11.91
			Jul-08	2008	Q3		4,751.38	\$ - \$ 3,000.55	7,751.94	3.35%	13.26	25.17
			Aug-08	2008	Q3		7,751.94	\$ - \$ 3,000.55	10,752.49	3.35%	21.64	46.81
			Sep-08	2008	Q3		10,752.49	\$ - \$ 3,000.55	13,753.04	3.35%	30.02	76.83
			Oct-08	2008	Q4		13,753.04	\$ - \$ 3,000.55	16,753.60	3.35%	38.39	115.22
			Nov-08	2008	Q4		16,753.60	\$ 875.00 \$ 3,000.55	20,629.15	3.35%	46.77	161.99
			Dec-08	2008	Q4		20,629.15	\$ 525.00 \$ 3,000.55	24,154.70	3.35%	57.59	219.58
			Jan-09	2009	Q1		24,154.70	\$ - \$ 15,458.88	39,613.58	2.45%	49.32	268.90
			Feb-09	2009	Q1		39,613.58	\$ - \$ 15,458.88	55,072.45	2.45%	80.88	349.78
			Mar-09	2009	Q1		55,072.45	\$ - \$ 15,458.88	70,531.33	2.45%	112.44	462.22
			Apr-09	2009	Q2		70,531.33	\$ 175.00 \$ 15,458.88	86,165.20	1.00%	58.78	520.99
			May-09	2009	Q2		86,165.20	\$ 525.00 \$ 15,458.88	102,149.08	1.00%	71.80	592.80
			Jun-09	2009	Q2		102,149.08	\$ 1,225.00 \$ 15,458.88	118,832.96	1.00%	85.12	677.92
			Jul-09	2009	Q3		118,832.96	\$ 350.00 \$ 15,458.88	134,641.83	0.55%	54.47	732.39
			Aug-09	2009	Q3		134,641.83	\$ 14,124.11 \$ 15,458.88	164,224.82	0.55%	61.71	794.10
			Sep-09	2009	Q3		164,224.82	\$ 1,925.00 \$ 15,458.88	181,608.69	0.55%	75.27	869.37
			Oct-09	2009	Q4		181,608.69	\$ 2,768.19 \$ 15,458.88	199,835.76	0.55%	83.24	952.60
			Nov-09	2009	Q4		199,835.76	\$ 103.66 \$ 15,458.88	215,398.29	0.55%	91.59	1,044.19
			Dec-09	2009	Q4		215,398.29	\$ - \$ 15,458.88	230,857.17	0.55%	98.72	1,142.92
			Jan-10	2010	Q1		230,857.17	\$ 1,614.48 \$ 37,329.50	269,801.15	0.55%	105.81	1,248.73
			Feb-10	2010	Q1		269,801.15	\$ 100.33 \$ 37,329.50	307,230.98	0.55%	123.66	1,372.39
			Mar-10	2010	Q1		307,230.98	\$ 1,756.75 \$ 37,329.50	346,317.23	0.55%	140.81	1,513.20
			Apr-10	2010	Q2		346,317.23	\$ 4,931.61 \$ 37,329.50	388,578.34	0.55%	158.73	1,671.93
			May-10	2010	Q2		388,578.34	\$ 12,760.50 \$ 37,329.50	438,668.34	0.55%	178.10	1,850.03
			Jun-10	2010	Q2		438,668.34	\$ 9,270.00 \$ 37,329.50	485,267.85	0.55%	201.06	2,051.08
			Jul-10	2010	Q3		485,267.85	\$ 910.21 \$ 37,329.50	523,507.56	0.89%	359.91	2,410.99
			Aug-10	2010	Q3		523,507.56	\$ 1,054.04 \$ 37,329.50	561,891.10	0.89%	388.27	2,799.26
			Sep-10	2010	Q3		561,891.10	\$ 8,126.75 \$ 37,329.50	607,347.35	0.89%	416.74	3,216.00
			Oct-10	2010	Q4		607,347.35	\$ 7,732.41 \$ 37,329.50	652,409.25	1.20%	607.35	3,823.34
			Nov-10	2010	Q4		652,409.25	\$ 7,530.05 \$ 37,329.50	697,268.80	1.20%	652.41	4,475.75
			Dec-10	2010	Q4		697,268.80	\$ 7,428.41 \$ 37,329.50	742,026.71	1.20%	697.27	5,173.02
			Jan-11	2011	Q1		742,026.71	\$ 8,043.32 \$ 49,776.14	799,846.17	1.47%	908.98	6,082.00
			Feb-11	2011	Q1		799,846.17	\$ 8,807.48 \$ 49,776.14	858,429.79	1.47%	979.81	7,061.82
			Mar-11	2011	Q1		858,429.79	\$ 8,074.94 \$ 49,776.14	916,280.87	1.47%	1,051.58	8,113.39
			Apr-11	2011	Q2		916,280.87	\$ 9,337.64 \$ 49,776.14	975,394.64	1.47%	1,122.44	9,235.84
			May-11	2011	Q2		975,394.64	\$ 8,920.74 \$ 49,776.14	1,034,091.52	1.47%	1,194.86	10,430.69
			Jun-11	2011	Q2		1,034,091.52	\$ 8,240.98 \$ 49,776.14	1,092,108.64	1.47%	1,266.76	11,697.46
			Jul-11	2011	Q3		1,092,108.64	\$ 8,041.95 \$ 49,776.14	1,149,926.73	1.47%	1,337.83	13,035.29
			Aug-11	2011	Q3		1,149,926.73	\$ 9,149.98 \$ 49,776.14	1,208,852.85	1.47%	1,408.66	14,443.95
			Sep-11	2011	Q3		1,208,852.85	\$ 8,726.59 \$ 49,776.14	1,267,355.58	1.47%	1,480.84	15,924.79
			Oct-11	2011	Q4		1,267,355.58	\$ 13,319.44 \$ 49,776.14	1,330,451.15	1.47%	1,552.51	17,477.31
			Nov-11	2011	Q4		1,330,451.15	\$ 13,057.88 \$ 49,776.14	1,393,285.16	1.47%	1,629.80	19,107.11
			Dec-11	2011	Q4		1,393,285.16	\$ 13,319.44 \$ 49,776.14	1,456,380.73	1.47%	1,706.77	20,813.88
			Jan-12	2012	Q1		1,456,380.73	\$ 32,070.03 \$ 51,943.67	1,540,394.44	1.47%	1,784.07	22,597.95
			Feb-12	2012	Q1		1,540,394.44	\$ 31,523.58 \$ 51,943.67	1,623,861.69	1.47%	1,886.98	24,484.93
			Mar-12	2012	Q1		1,623,861.69	\$ 32,070.03 \$ 51,943.67	1,707,875.39	1.47%	1,989.23	26,474.16
			Apr-12	2012	Q2		1,707,875.39	\$ 31,796.80 \$ 51,943.67	1,791,615.87	1.47%	2,092.15	28,566.31
			May-12	2012	Q2		1,791,615.87	\$ 32,070.03 \$ 51,943.67	1,875,629.57	1.47%	2,194.73	30,761.04
			Jun-12	2012	Q2		1,875,629.57	\$ 31,796.80 \$ 51,943.67	1,959,370.05	1.47%	2,297.65	33,058.69
			Jul-12	2012	Q3		1,959,370.05	\$ 32,070.03 \$ 51,943.67	2,043,383.75	1.47%	2,400.23	35,458.91
			Aug-12	2012	Q3		2,043,383.75	\$ 32,070.03 \$ 51,943.67	2,127,397.45	1.47%	2,503.15	37,962.06
			Sep-12	2012	Q3		2,127,397.45	\$ 31,796.80 \$ 51,943.67	2,211,137.93	1.47%	2,606.06	40,568.12
			Oct-12	2012	Q4		2,211,137.93	\$ 32,070.03 \$ 51,943.67	2,295,151.63	1.47%	2,708.64	43,276.76
			Nov-12	2012	Q4		2,295,151.63	\$ 31,796.80 \$ 51,943.67	2,378,892.11	1.47%	2,811.56	46,088.33
			Dec-12	2012	Q4		2,378,892.11	\$ 32,070.03 \$ 51,943.67	2,462,905.81	1.47%	2,914.14	49,002.47
						\$	587,803.71	\$	1,875,102.10	\$	2,462,905.81	



Ontario Energy Board

Smart Meter Model

#N/A

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	\$ 3,150.83	\$ 21,049.03	\$ 24,199.86	\$ 12,099.93	3.98%	\$ 481.58
2009	\$ 21,195.96	\$ 203,878.77	\$ 249,274.59	\$ 136,737.23	1.14%	\$ 1,555.39
2010	\$ 34,025.90	\$ 491,901.77	\$ 775,202.26	\$ 512,238.42	0.80%	\$ 4,085.10
2011	\$ 146,230.02	\$ 692,259.35	\$ 1,613,691.63	\$ 1,194,446.94	1.47%	\$ 17,558.37
2012	\$ 383,201.00	\$ 731,240.60	\$ 2,728,133.23	\$ 2,170,912.43	1.47%	\$ 31,912.41
<b>Cumulative Interest to 2011</b>						\$ 23,680.43
<b>Cumulative Interest to 2012</b>						\$ 55,592.85



Ontario Energy Board  
Smart Meter Model

#N/A

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)	\$ -	\$ -	\$ 33,698.62	\$ 292,787.17	\$ 719,283.60	\$ 1,154,331.62	\$ 1,542,419.53	\$ 3,742,520.53
Interest on Deferred and forecasted OM&A and Amortization Expense (Sheet 8A/8B) (Check <b>one</b> of the boxes below)	\$ -	\$ -	\$ 219.58	\$ 923.34	\$ 4,030.10	\$ 15,640.86		\$ 20,813.88
<input checked="" type="checkbox"/> Sheet 8A (Interest calculated on monthly balances)	\$ -	\$ -	\$ 219.58	\$ 923.34	\$ 4,030.10	\$ 15,640.86		\$ 20,813.88
<input type="checkbox"/> Sheet 8B (Interest calculated on average annual balances)								\$ -
SMFA Revenues (from Sheet 8)	\$ 100,410.14	\$ 152,809.97	\$ 155,647.85	\$ 457,477.51	\$ 620,361.43	\$ 625,722.01	\$ 636,216.00	\$ 2,748,644.91
SMFA Interest (from Sheet 8)	\$ 1,322.00	\$ 8,139.11	\$ 12,609.07	\$ 5,662.40	\$ 9,602.48	\$ 26,063.14	\$ 35,339.21	\$ 98,737.41
Net Deferred Revenue Requirement	-\$ 101,732.14	-\$ 160,949.08	-\$ 134,338.72	-\$ 169,429.41	\$ 93,349.79	\$ 518,187.33	\$ 870,864.32	\$ 915,952.09
Number of Metered Customers (average for 2012 test year)	→						53018	
<b>Calculation of Smart Meter Funding Adder (per metered customer per month)</b>								
Net Deferred Revenues from 2006 to April 30, 2012	\$ 915,952.09							
SMFA <span style="background-color: #e0ffe0;">May 1, 2012 to April 30, 2013</span>	\$ 1.37							
Check: Forecasted SMFA Revenues for 2012 test year	\$ 871,615.92							





## Funding and Cost Recovery Mechanisms

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

Title	Acronym	Description
Smart Meter Funding Adder	SMFA	<ul style="list-style-type: none"> <li>Mechanism to provide funding before and during smart meter deployment and acts to smooth the rate increases due to smart meter implementation.</li> <li>First implemented in rates for May 1, 2006.</li> <li>Initially established at a level of about \$0.26/month per metered customer for most distributors; some utilities have had unique SMFA rates due to initial Smart Meter Implementation Plans. Distributors could subsequently apply for a standard SMFA of \$1.00 per metered customer per month or a utility-specific SMFA.</li> <li>SMFA revenues are tracked in a sub-account of Account 1555. Upon disposition, the SMFA revenues and simple interest are used to offset the deferred historical revenue requirement of installed smart meters plus interest on the OM&amp;A and amortization/depreciation expenses, with the variance recovered or refunded through the SMDR.</li> <li>In many 2011 EDR applications, the Board capped the SMFA at \$2.50/month per metered customer. Further, the Board indicated that the SMFA would cease by April 30, 2012.</li> </ul>
Smart Meter Disposition Rider	SMDR	<ul style="list-style-type: none"> <li>The SMDR recovers, over a specified time period, the variance between: 1) the deferred revenue requirement for the installed smart meters up to the time of disposition and interest on OM&amp;A and depreciation/amortization expenses; and 2) the SMFA revenues collected and associated interest.</li> <li>The SMDR should be calculated as a fixed monthly charge. The capital (smart meter, AMI, systems hardware and software) and operating expenses are largely fixed costs and invariant to a customer's demand, and hence should be recovered largely through fixed charges.</li> <li>In many cases the SMDR has been recovered on an equal basis from all metered customer classes, although more recent decisions have dealt with class-specific disposition riders. The distributor should determine and support its proposed allocation, based on principles of cost causality and practicality.</li> </ul>
Smart Meter Incremental Revenue Requirement Rate Rider	SMIRR	<ul style="list-style-type: none"> <li>When smart meter disposition occurs in a stand-alone application, a SMIRR is calculated as the proxy for the incremental change in the distribution rates that would have occurred if the assets and operating expenses were incorporated into the rate base and the revenue requirement.</li> <li>The SMIRR is calculated as the annualized revenue requirement for the test year for the capital and operating costs for smart meters.</li> <li>The SMIRR should be calculated as a fixed monthly charge, similar to the SMDR.</li> <li>The allocation for the SMIRR should generally be the same as for the SMDR.</li> <li>The SMIRR ceases at the time of the utility's next cost of service application when smart meter capital and operating costs are explicitly incorporated into the rate base and revenue requirement.</li> </ul>

## Cost of Service Applications

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

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

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

## Stand-alone Applications

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

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

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

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

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

## Costs Beyond Minimum Functionality

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## Cost Allocation

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

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

Whichever method is adopted, the Board is of the view that any cost allocation approach should be consistent between the SMDR and the SMIRR when disposition is sought in a stand-alone application. The Board will entertain proposals supported by analysis for SMDRs and SMIRRs based on principles of cost causality and where the distributor has the necessary historical and forecasted data. Distributors should refer to the PowerStream application considered under EB-2010-0209 for a practical approach. However, if a distributor decides to adopt this approach in its application, it will have to adjust it to its own circumstances.<sup>2</sup> Further, adoption of this approach will not predetermine its approval by the Board in an individual application.

## Stranded Meters

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

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

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

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

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

# **Attachment C**

## **2010 OPA Final Program Results**

**ATTACHMENT A**

**CDM Load Impacts by Class and Program**

Class Program	Year Implemented	2010			
		NET 2010		GROSS 2010	
		kWh	kW	kWh	kW
<b>OPA Programs</b>					
<b>Residential</b>					
<b>Cool &amp; Hot Savings Rebate Program</b>	<b>2006-2007</b>	<b>349,402</b>	<b>267.98</b>	<b>592,626</b>	<b>452.61</b>
2006		134,283	124.45	170,112	151.32
2007		215,119	143.53	422,515	301.29
<b>Cool Savings Rebate</b>	<b>2008-2010</b>	<b>945,263</b>	<b>614.53</b>	<b>2,070,326</b>	<b>1319.08</b>
2008		233,397	147.85	406,305	256.68
2009		289,255	190.51	676,997	435.83
2010		422,611	276.18	987,025	626.57
<b>Secondary Fridge Retirement Pilot Great Refrigerator Roundup</b>	<b>2006</b>	<b>54,397</b>	<b>12.33</b>	<b>60,441</b>	<b>13.70</b>
	<b>2007-2010</b>	<b>975,483</b>	<b>129.69</b>	<b>1,895,272</b>	<b>256.19</b>
2007		122,263	14.82	302,900	36.38
2008		284,780	30.40	525,617	56.54
2009		286,971	42.39	538,131	81.69
2010		281,469	42.07	528,624	81.58
<b>Every Kilowatt Counts</b>	<b>2006-2007</b>	<b>1,722,986</b>	<b>86.34</b>	<b>2,229,724</b>	<b>109.44</b>
2006		449,239	41.09	499,154	45.66
2007		1,273,747	45.25	1,730,570	63.78
<b>peaksaver®</b>	<b>2007-2010</b>	<b>5,439</b>	<b>850.62</b>	<b>6,043</b>	<b>945.14</b>
2007		0	0.00	0	0.00
2008		3,083	154.14	3,425	171.27
2009		362	207.44	403	230.49
2010		1,994	489.04	2,215	543.38
<b>Summer Savings</b>	<b>2007</b>	<b>41,209</b>	<b>51.92</b>	<b>343,411</b>	<b>432.69</b>
<b>Social Housing – Pilot</b>	<b>2007</b>	<b>117,201</b>	<b>13.79</b>	<b>117,201</b>	<b>13.79</b>
<b>Energy Efficiency Assistance for Houses – Pilot</b>	<b>2007</b>	<b>67,035</b>	<b>19.72</b>	<b>67,035</b>	<b>19.72</b>
<b>Summer Sweepstakes</b>	<b>2008</b>	<b>136,433</b>	<b>54.85</b>	<b>175,847</b>	<b>70.70</b>
<b>Every Kilowatt Counts Power Savings Event</b>	<b>2008-2010</b>	<b>1,855,869</b>	<b>129.06</b>	<b>4,583,050</b>	<b>320.37</b>
2008		1,179,630	61.74	2,923,760	146.57
2009		482,099	50.09	1,239,764	133.44
2010		194,141	17.22	419,526	40.36
<b>General Service&lt;50kW</b>					
<b>High Performance New Construction</b>	<b>2008-2010</b>	<b>494,434</b>	<b>219.39</b>	<b>706,335</b>	<b>313.41</b>
2008		3,392	4.02	4,846	5.74
2009		108,989	47.80	155,699	68.29
2010		382,053	167.57	545,790	239.38
<b>Power Savings Blitz</b>	<b>2008-2010</b>	<b>3,481,026</b>	<b>980.32</b>	<b>3,610,334</b>	<b>1014.34</b>
2008		1,124	0.16	1,209	0.17
2009		2,211,887	566.95	2,328,302	596.79
2010		1,268,014	413.21	1,280,823	417.38
<b>Multifamily Energy Efficiency Rebates</b>	<b>2010</b>	<b>46,001</b>	<b>3.90</b>	<b>62,448</b>	<b>5.10</b>
<b>General Service&gt;50kW to 4,999kW</b>					
<b>Demand Response 2</b>	<b>2009-2010</b>	<b>1,805,555</b>	<b>1544.65</b>	<b>1,805,555</b>	<b>1544.65</b>
<b>Demand Response 3</b>	<b>2008-2010</b>	<b>63,993</b>	<b>3267.13</b>	<b>63,993</b>	<b>3267.13</b>
<b>Loblaw &amp; York Region Demand Response</b>	<b>2010</b>	<b>0</b>	<b>379.15</b>	<b>0</b>	<b>379.15</b>
<b>Electricity Retrofit Incentive Program</b>	<b>2007-2010</b>	<b>1,971,431</b>	<b>330.04</b>	<b>3,418,286</b>	<b>568.80</b>
2007		0	0.00	0	0.00
2008		419,455	82.36	723,766	142.01
2009		948,977	140.80	1,505,795	222.73
2010		603,000	106.89	1,188,724	204.06
<b>TOTAL</b>		<b>14,133,156</b>	<b>8,955.42</b>	<b>21,807,926</b>	<b>11,046.01</b>

**ATTACHMENT B**

**Foregone Revenue by Class and Program**

Class Program	2009		2010				Total Revenue	
	kWh or kW	Rate per Unit	Load Unit	kWh or kW	Rate per Unit	Revenue		
<b>OPA Programs</b>								
<b>Residential</b>								
Cool & Hot Savings Rebate Program	2006-2007	kWh	0.0134	349,402	kWh	0.0131	\$4,612.11	
2006			0.0134	134,283	kWh	0.0131	\$1,772.53	
2007			0.0134	215,119	kWh	0.0131	\$2,839.58	
Cool Savings Rebate	2008-2010	kWh	0.0134	945,263	kWh	0.0131	\$12,477.47	
2008			0.0134	233,397	kWh	0.0131	\$3,080.85	
2009			0.0134	289,255	kWh	0.0131	\$3,818.16	
2010			0.0134	422,611	kWh	0.0131	\$5,578.46	
Secondary Fridge Retirement Pilot	2006	kWh	0.0134	54,397	kWh	0.0131	\$718.04	
Great Refrigerator Roundup	2007-2010	kWh	0.0134	975,483	kWh	0.0131	\$12,876.38	
2007			0.0134	122,263	kWh	0.0131	\$1,613.88	
2008			0.0134	284,780	kWh	0.0131	\$3,759.10	
2009			0.0134	286,971	kWh	0.0131	\$3,788.02	
2010			0.0134	281,469	kWh	0.0131	\$3,715.39	
Every Kilowatt Counts	2006-2007	kWh	0.0134	1,722,986	kWh	0.0131	\$22,743.41	
2006			0.0134	449,239	kWh	0.0131	\$5,929.95	
2007			0.0134	1,273,747	kWh	0.0131	\$16,813.46	
peaksaver®	2007-2010	kWh	0.0134	5,439	kWh	0.0131	\$71.79	
2007			0.0134	0	kWh	0.0131	\$0.00	
2008			0.0134	3,083	kWh	0.0131	\$40.69	
2009			0.0134	362	kWh	0.0131	\$4.78	
2010			0.0134	1,994	kWh	0.0131	\$26.32	
Summer Savings	2007	kWh	0.0134	41,209	kWh	0.0131	\$543.96	
Social Housing – Pilot	2007	kWh	0.0134	117,201	kWh	0.0131	\$1,547.05	
Energy Efficiency Assistance for Houses – Pilot	2007	kWh	0.0134	67,035	kWh	0.0131	\$884.86	
Summer Sweepstakes	2008	kWh	0.0134	136,433	kWh	0.0131	\$1,800.91	
Every Kilowatt Counts Power Savings Event	2008-2010	kWh	0.0134	1,855,869	kWh	0.0131	\$24,497.47	
2008			0.0134	1,179,630	kWh	0.0131	\$15,571.11	
2009			0.0134	482,099	kWh	0.0131	\$6,363.70	
2010			0.0134	194,141	kWh	0.0131	\$2,562.66	
								<b>\$82,773.46</b>
<b>GENERAL SERVICE Less Than 50kW</b>								
High Performance New Construction	2008-2010	kWh	0.0107	494,434	kWh	0.0104	\$5,191.56	
2008			0.0107	3,392	kWh	0.0104	\$35.62	
2009			0.0107	108,989	kWh	0.0104	\$1,144.39	
2010			0.0107	382,053	kWh	0.0104	\$4,011.55	
Power Savings Blitz	2008-2010	kWh	0.0107	3,481,026	kWh	0.0104	\$36,550.77	
2008			0.0107	1,124	kWh	0.0104	\$11.81	
2009			0.0107	2,211,887	kWh	0.0104	\$23,224.81	
2010			0.0107	1,268,014	kWh	0.0104	\$13,314.15	
Multifamily Energy Efficiency Rebates	2010	kWh	0.0107	46,001	kWh	0.0104	\$483.01	
								<b>\$42,225.34</b>
<b>General Service &gt;50kW to 4,999kW</b>								
Demand Response 2		kW	3.6325	1,544.65	kW	3.5420	\$5,471.16	
Demand Response 3		kW	3.6325	3,267.13	kW	3.5420	\$11,572.18	
Loblaw & York Region Demand Response		kW	3.6325	379.15	kW	3.5420	\$1,342.96	
Electricity Retrofit Incentive Program	2007-2010	kW	3.6325	330.04	kW	3.5420	\$14,147.51	
2007			3.6325	0.00	kW	3.5420	\$0.00	
2008			3.6325	82.36	kW	3.5420	\$3,530.31	
2009			3.6325	140.80	kW	3.5420	\$6,035.34	
2010			3.6325	106.89	kW	3.5420	\$4,581.86	
								<b>\$32,533.82</b>
								<b>\$157,532.61</b>

**ATTACHMENT C**

**LRAM Totals**

**Rate Class**

	LRAM \$
<b><u>OPA Programs</u></b>	
<b>RESIDENTIAL</b>	\$82,773.46
<b>GENERAL SERVICE &lt;50KW</b>	\$42,225.34
<b>GENERAL SERVICE &gt;50KW</b>	\$32,533.82
	\$157,532.61