

Ontario Energy Board
P.O. Box 2319
27th Floor
2300 Yonge Street
Toronto ON M4P 1E4
Telephone: 416- 481-1967
Facsimile: 416- 440-7656
Toll free: 1-888-632-6273

Commission de l'énergie de l'Ontario
C.P. 2319
27e étage
2300, rue Yonge
Toronto ON M4P 1E4
Téléphone: 416- 481-1967
Télécopieur: 416- 440-7656
Numéro sans frais: 1-888-632-6273



BY E-MAIL AND WEB POSTING

November 25, 2013

To: All Licensed Electricity Distributors and Transmitters
All Gas Distributors
Ontario Power Generation Inc.
All Registered Intervenors in 2014 Cost of Service Applications

Re: **Cost of Capital Parameter Updates for 2014 Cost of Service Applications**

The Ontario Energy Board (the “Board”) has determined the values for the Return on Equity (“ROE”) and the deemed Long-Term (“LT”) and Short-Term (“ST”) debt rates for use in the 2014 cost of service applications. The ROE and the LT and ST debt rates are collectively referred to as the Cost of Capital parameters. The updated Cost of Capital parameters are calculated based on the formulaic methodologies documented in the *Report of the Board on the Cost of Capital for Ontario’s Regulated Utilities* (the “Cost of Capital Report”), issued December 11, 2009.

Cost of Capital Parameters for 2014 Rates

For rates with effective dates in 2014, the Board has updated the Cost of Capital parameters based on: (i) the September 2013 survey from Canadian banks for the spread over the Bankers’ Acceptance rate of 3-month short-term loans for R1-low or A:- (A-stable) commercial customers, for the Short-Term debt rate; and (ii) data three months prior to January 1, 2014 from the Bank of Canada, *Consensus Forecasts*, and Bloomberg LLP, for all Cost of Capital parameters.

The Board has determined that the updated Cost of Capital parameters for 2014 cost of service rate applications for rates with effective in 2014 are:

Cost of Capital Parameter	Value for 2014 Cost of Service Applications for rate changes in 2014
ROE	9.36%
Deemed LT Debt rate	4.88%
Deemed ST Debt rate	2.11%

Detailed calculations of the Cost of Capital parameters are attached.

The Board considers the Cost of Capital parameter values shown in the above table, and the relationships between them, to be reasonable and representative of market conditions at this time.

As documented in the *Report of the Board on Rate Setting Parameters and Benchmarking under the Renewed Regulatory Framework for Ontario's Electricity Distributors* (EB-2010-0379) issued November 21, 2013, the Board intends to update Cost of Capital parameters for setting rates in cost of service applications only once per year. For this reason, the Cost of Capital parameters above will be applicable for all cost of service applications with rates effective in the 2014 calendar year.

The Board monitors macroeconomic conditions and may issue updated parameters if economic conditions materially change. An applicant or intervenors can also file evidence in support of different Cost of Capital parameters due to the specific circumstances in individual rate hearings, but must provide strong rationale for deviating from the Board's policy.

All queries on the Cost of Capital parameters should be directed to the Board's Market Operations hotline, at 416 440-7604 or market.operations@ontarioenergyboard.ca.

Yours truly,

Original Signed By

Kirsten Walli
Board Secretary

Attachment

**Ontario Energy Board
Commission de l'Énergie de l'Ontario**

**Attachment: Cost of Capital Parameter Calculations
(For Cost of Service rate changes effective in 2014)**

**Cost of Capital Parameter Calculations
Return on Equity and Deemed Long-term Debt Rate**

Step 1: Analysis of Business Day Information in the Month

Month:		September 2013			
Day		Bond Yields (%)		Bond Yield Spreads (%)	
		Government of Canada 10-yr	A-rated Utility 30-yr	30-yr Govt over 10-yr Govt	30-yr Util over 30-yr Govt
1	1-Sep-13				
2	2-Sep-13				
3	3-Sep-13	2.68	3.15	0.47	1.46
4	4-Sep-13	2.71	3.18	0.47	1.45
5	5-Sep-13	2.80	3.25	0.45	1.47
6	6-Sep-13	2.76	3.23	0.47	1.47
7	7-Sep-13				
8	8-Sep-13				
9	9-Sep-13	2.74	3.22	0.48	1.47
10	10-Sep-13	2.82	3.28	0.46	1.47
11	11-Sep-13	2.78	3.26	0.48	1.47
12	12-Sep-13	2.78	3.26	0.48	1.47
13	13-Sep-13	2.76	3.25	0.49	1.48
14	14-Sep-13				
15	15-Sep-13				
16	16-Sep-13	2.79	3.28	0.49	1.48
17	17-Sep-13	2.77	3.26	0.49	1.51
18	18-Sep-13	2.70	3.21	0.51	1.48
19	19-Sep-13	2.70	3.22	0.52	1.52
20	20-Sep-13	2.69	3.20	0.51	1.49
21	21-Sep-13				
22	22-Sep-13				
23	23-Sep-13	2.65	3.17	0.52	1.50
24	24-Sep-13	2.59	3.11	0.52	1.52
25	25-Sep-13	2.57	3.09	0.52	1.51
26	26-Sep-13	2.58	3.10	0.52	1.51
27	27-Sep-13	2.55	3.08	0.53	1.48
28	28-Sep-13				
29	29-Sep-13				
30	30-Sep-13	2.54	3.07	0.53	1.49
31					
		2.70	3.19	0.496	1.483

Sources: Bank of Canada Bloomberg L.P. ① ②

Step 2: 10-Year Government of Canada Bond Yield Forecast

Source: Consensus Forecasts	Publication Date: September 9, 2013
September 2013	3-month 2.700 12-month 3.100 Average 2.900 %

Step 3: Long Canada Bond Forecast

10 Year Government of Canada Concensus Forecast (from Step 2)	③ 2.900 %
Actual Spread of 30-year over 10-year Government of Canada Bond Yield (from Step 1)	① 0.496 %
Long Canada Bond Forecast (LCBF)	④ 3.396 %

Step 4: Return on Equity (ROE) forecast

Initial ROE	9.75 %
Change in Long Canada Bond Yield Forecast from September 2009	
LCBF (September 2013) (from Step 3)	④ 3.396 %
Base LCBF	4.250 %
Difference	-0.855 %
0.5 X Difference	-0.427 %
Change in A-rated Utility Bond Yield Spread from September 2009	
A-rated Utility Bond Yield Spread (September 2013) (from Step 1)	② 1.483 %
Base A-rated Utility Bond Yield Spread	1.415 %
Difference	0.068 %
0.5 X Difference	0.034 %
Return on Equity based on September 2013 data	9.36 %

Step 5: Deemed Long-term Debt Rate Forecast

Long Canada Bond Forecast for September 2013 (from Step 3)	④ 3.396 %
A-rated Utility Bond Yield Spread September 2013 (from Step 1)	② 1.483 %
Deemed Long-term Debt Rate based on September 2013 data	4.88 %

**Ontario Energy Board
Commission de l'Énergie de l'Ontario**

**Attachment: Cost of Capital Parameter Calculations
(For Cost of Service rate changes effective in 2014)**

**Cost of Capital Parameter Calculations
Deemed Short-term Debt Rate**

Step 1: Average Annual Spread over Bankers Acceptance

Once a year, in January, Board staff contacts prime Canadian banks to get estimates for the spread of short-term (typically 90-day) debt issuances over Bankers' Acceptance rates. Up to six estimates are provided.

A.	Average Spread over 90-day Bankers Acceptance		Date of input
Bank 1	100.0	bps	Sept., 2013
Bank 2	100.0	bps	Sept., 2013
Bank 3	82.5	bps	Sept., 2013
Bank 4	80.0	bps	Sept., 2013
Bank 5			
Bank 6			

B. Discard high and low estimates
If less than 4 estimates, take average without discarding high and low.

Number of estimates

High estimate bps

Low estimate bps

C. Average annual Spread bps ^①

Step 3: Deemed Short-Term Debt Rate Calculation

Calculate Deemed Short-term debt rate as sum of average annual spread (Step 1) and average 3-month Bankers' Acceptance Rate (Step 2)

Average Annual Spread	<input type="text" value="0.913"/> %	^①
Average Bankers' Acceptance Rate	<input type="text" value="1.200"/> %	^②
Deemed Short Term Debt Rate	<input type="text" value="2.11"/> %	

Step 2: Average 3-month Bankers' Acceptance Rate

Calculation of Average 3-month Bankers' Acceptance Rate during month of September 2013

Month:	September 2013	
Day	Bankers' Acceptance Rate (%) 3-month	
1	1-Sep-13	
2	2-Sep-13	Bank holiday %
3	3-Sep-13	1.20 %
4	4-Sep-13	1.20 %
5	5-Sep-13	1.20 %
6	6-Sep-13	1.20 %
7	7-Sep-13	
8	8-Sep-13	
9	9-Sep-13	1.20 %
10	10-Sep-13	1.20 %
11	11-Sep-13	1.20 %
12	12-Sep-13	1.20 %
13	13-Sep-13	1.20 %
14	14-Sep-13	
15	15-Sep-13	
16	16-Sep-13	1.20 %
17	17-Sep-13	1.20 %
18	18-Sep-13	1.20 %
19	19-Sep-13	1.20 %
20	20-Sep-13	1.20 %
21	21-Sep-13	
22	22-Sep-13	
23	23-Sep-13	1.20 %
24	24-Sep-13	1.20 %
25	25-Sep-13	1.20 %
26	26-Sep-13	1.20 %
27	27-Sep-13	1.20 %
28	28-Sep-13	
29	29-Sep-13	
30	30-Sep-13	1.20 %
31		<input type="text" value="1.200"/> % ^③

Source Bank of Canada / Statistics Canada
Series V39071

Reference on Calculation Method:

- Appendix D of the *Report of the Board on Cost of Capital for Ontario's Regulated Utilities*, issued December 11, 2009.