

**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

February 14, 2013

To: All Licensed Electricity Distributors and Transmitters  
All Gas Distributors  
Ontario Power Generation Inc.  
All Registered Intervenors in 2013 Cost of Service Applications

**Re: Cost of Capital Parameter Updates for 2013 Cost of Service Applications for Rates Effective May 1, 2013**

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 2013 cost of service applications for rates effective May 1, 2013. 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 "Report"), issued December 11, 2009.

### Cost of Capital Parameters for Rates Effective May 1, 2013

For rates with effective dates of May 1, 2013, the Board has updated the Cost of Capital parameters based on: (i) the September 2012 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 for three months prior to the effective date of May 1, 2013 from the Bank of Canada, *Consensus Forecasts*, and Bloomberg LLP, per the methodologies documented in the Report.

The Board has determined that the updated Cost of Capital parameters for 2013 cost of service rate applications for rates effective May 1, 2013 are:

<b>Cost of Capital Parameter</b>	<b>Value for 2013 Cost of Service Applications for May 1, 2013 rate changes</b>
ROE	8.98%
Deemed LT Debt rate	4.12%
Deemed ST Debt rate	2.07%

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.

Updated Cost of Capital parameters for rates effective January 1, 2014 will be published once data for September 2013 become available.

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](mailto:market.operations@ontarioenergyboard.ca).

Yours truly,

*Original Signed By*

Kirsten Walli  
Board Secretary

Attachment

**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:		January 2013			Bond Yields (%)		Bond Yield Spreads (%)	
Day		Government of Canada		A-rated Utility	30-yr Govt over 10-yr Govt	30-yr Util over 30-yr Govt		
		10-yr	30-yr	30-yr				
1	1-Jan-13							
2	2-Jan-13	1.87	2.42	3.86	0.55	1.44		
3	3-Jan-13	1.92	2.48	3.91	0.56	1.43		
4	4-Jan-13	1.94	2.48	3.90	0.54	1.42		
5	5-Jan-13							
6	6-Jan-13							
7	7-Jan-13	1.94	2.49	3.91	0.55	1.42		
8	8-Jan-13	1.91	2.47	3.88	0.56	1.41		
9	9-Jan-13	1.91	2.47	3.87	0.56	1.40		
10	10-Jan-13	1.96	2.52	3.90	0.56	1.38		
11	11-Jan-13	1.94	2.50	3.90	0.56	1.40		
12	12-Jan-13							
13	13-Jan-13							
14	14-Jan-13	1.94	2.50	3.90	0.56	1.40		
15	15-Jan-13	1.91	2.48	3.87	0.57	1.39		
16	16-Jan-13	1.89	2.46	3.84	0.57	1.38		
17	17-Jan-13	1.95	2.51	3.91	0.56	1.40		
18	18-Jan-13	1.92	2.49	3.89	0.57	1.40		
19	19-Jan-13							
20	20-Jan-13							
21	21-Jan-13	1.93	2.51	3.90	0.58	1.39		
22	22-Jan-13	1.91	2.50	3.89	0.59	1.39		
23	23-Jan-13	1.87	2.47	3.87	0.60	1.40		
24	24-Jan-13	1.89	2.48	3.88	0.59	1.40		
25	25-Jan-13	1.95	2.53	3.94	0.58	1.41		
26	26-Jan-13							
27	27-Jan-13							
28	28-Jan-13	1.96	2.54	3.94	0.58	1.40		
29	29-Jan-13	2.00	2.57	3.97	0.57	1.40		
30	30-Jan-13	1.99	2.57	3.97	0.58	1.40		
31	31-Jan-13	1.99	2.57	3.96	0.58	1.39		
		1.93	2.50	3.90	<b>0.569</b>	<b>1.403</b>		

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

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

Source: Consensus Forecasts	Publication Date: January 14, 2013
January 2013	3-month 1.900      12-month 2.400      Average 2.150 %

**Step 3: Long Canada Bond Forecast**

10 Year Government of Canada Concensus Forecast (from Step 2)	③ 2.150 %
Actual Spread of 30-year over 10-year Government of Canada Bond Yield (from Step 1)	① 0.569 %
Long Canada Bond Forecast (LCBF)	④ 2.719 %

**Step 4: Return on Equity (ROE) forecast**

Initial ROE	9.75 %
Change in Long Canada Bond Yield Forecast from September 2009	
LCBF (January 2013) (from Step 3)	④ 2.719 %
Base LCBF	4.250 %
Difference	-1.531 %
0.5 X Difference	-0.765 %
Change in A-rated Utility Bond Yield Spread from September 2009	
A-rated Utility Bond Yield Spread (January 2013) (from Step 1)	② 1.403 %
Base A-rated Utility Bond Yield Spread	1.415 %
Difference	-0.012 %
0.5 X Difference	-0.006 %
<b>Return on Equity based on January 2013 data</b>	<b>8.98 %</b>

**Step 5: Deemed Long-term Debt Rate Forecast**

Long Canada Bond Forecast for January 2013 (from Step 3)	④ 2.719 %
A-rated Utility Bond Yield Spread January 2013 (from Step 1)	② 1.403 %
<b>Deemed Long-term Debt Rate based on January 2013 data</b>	<b>4.12 %</b>

## 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.	over 90-day Bankers Acceptance (basis points)		Date of input
Bank 1	105.0	bps	Sept., 2012
Bank 2	82.5	bps	Sept., 2012
Bank 3	100.0	bps	Sept., 2012
Bank 4	80.0	bps	Sept., 2012
Bank 5	80.0	bps	Sept., 2012
Bank 6			

B.	Discard high and low estimates If less than 4 estimates, take average without discarding high and low.	
Number of estimates	5	
High estimate	105.0	bps
Low estimate	80.0	bps

C.	Average annual Spread	87.500	bps	①
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**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	0.875	%	①
Average Bankers' Acceptance Rate	1.190	%	②
<b>Deemed Short Term Debt Rate</b>	<b>2.07</b>	<b>%</b>	

**Step 2:** Average 3-month Bankers' Acceptance Rate

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

Month:	January 2013		
	Bankers' Acceptance Rate (%)		
Day	3-month		
1	1-Jan-13	Bank holiday	%
2	2-Jan-13		1.19 %
3	3-Jan-13		1.19 %
4	4-Jan-13		1.19 %
5	5-Jan-13		
6	6-Jan-13		
7	7-Jan-13		1.19 %
8	8-Jan-13		1.19 %
9	9-Jan-13		1.19 %
10	10-Jan-13		1.19 %
11	11-Jan-13		1.19 %
12	12-Jan-13		
13	13-Jan-13		
14	14-Jan-13		1.19 %
15	15-Jan-13		1.19 %
16	16-Jan-13		1.19 %
17	17-Jan-13		1.19 %
18	18-Jan-13		1.19 %
19	19-Jan-13		
20	20-Jan-13		
21	21-Jan-13		1.19 %
22	22-Jan-13		1.19 %
23	23-Jan-13		1.19 %
24	24-Jan-13		1.19 %
25	25-Jan-13		1.19 %
26	26-Jan-13		
27	27-Jan-13		
28	28-Jan-13		1.19 %
29	29-Jan-13		1.19 %
30	30-Jan-13		1.19 %
31	31-Jan-13		1.19 %
			<b>1.190</b> %
			②

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.