

ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
GEC INTERROGATORY #34

INTERROGATORY

Enbridge, Issue A.4.DSM Potential, Ref: Exh. A, T3, S7, pp. 1-3, ¶3.

- a) Please provide the following actual results from Enbridge's DSM portfolio for every year from 2003 through 2012 (please provide by customer type – i.e. residential, apartments/multi-family, commercial and industrial – gate for the whole portfolio):
- i. Incremental annual gas saved
 - ii. Incremental annual gas saved as a percentage of annual consumption by all of Enbridge's customers (please provide both the numerator and denominator used to compute the percentages, as well as their sources)
 - iii. Lifetime gas savings
 - iv. Average measure life of the gas savings.
 - v. The portion of the incremental annual savings that were achieved in the GTA region.
 - vi. Final portfolio DSM spending.
 - vii. Final portfolio TRC net benefits.
- b) Please provide the following forecast results for Enbridge's DSM portfolio for 2013 and for 2014 (please provide by customer type – i.e. residential, apartments/multi-family, commercial and industrial – and in aggregate for the whole portfolio):
- i. incremental annual gas saved
 - ii. Incremental annual gas saved as a percentage of annual consumption by all of Enbridge's customers (please provide both the numerator and denominator used to compute the percentages, as well as their sources)
 - iii. lifetime gas saved
 - iv. average measure life of gas savings

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- v. The portion of incremental annual gas savings that will be in the GTA region.
- c) Please explain what is meant by the statement that “currently planned DSM activities and conservation are already included in the forecast presented.” Specifically:
- i. To what forecast in the evidence is Enbridge referring?
 - ii. Exactly what forecast DSM savings were assumed or included in the forecast?
 - iii. How much of the forecast savings for Enbridge’s entire service territory allocated to the GTA region? How was that allocation developed?
 - iv. Does the forecast include any assumption regarding additional DSM savings beyond 2014? If so, what was assumed and what was the basis for the assumption?
- d) Did Enbridge attempt to quantify cost-effective efficiency potential for the purpose of determining its potential role in deferring the need for the GTA project? If so, please provide all available documentation of the inputs to and results from that assessment.
- e) Please provide copies of all assessments of efficiency potential within the Company’s service territory conducted within the past ten years. Please include both comprehensive studies (i.e. those that examined all sectors) and studies focused on just parts of the Company’s customer base (e.g. just industrial, just residential, just from large boiler replacements, etc.).

RESPONSE

a) & b)

Please find below a detailed chart in response to GEC Interrogatory #34 at Exhibit I.A4.EGD.GEC.34 a) and b). Please note the following assumptions built into the data below:

- Due to the fact that the Company did not calculate cumulative cubic metres saved until the 2012 program year, lifetime gas savings provided are based on the assumed measure life of 12 years. For consistency, this method of

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calculation has been extended into 2012, 2013 and 2014. By way of reference, the un-weighted 2012 average measure life was 17.7 years, demonstrating that the 12 year average is a conservative estimate.

GEC's has also requested in Interrogatory #34 at Exhibit I.A4.EGD.GEC.34 a) ii) and b) ii) the sources of the numerators and denominators used to determine incremental annual gas saved as a percentage of consumption by all of Enbridge's customers, both by customer segment and for the entire DSM portfolio from 2003 to 2014. The numerators used from 2003 to 2011 have been sourced from the Company's final TRC spreadsheets for each DSM program year as finalized during the drafting of the annual Audit Summary Report. The 2012 numerator was determined using the TRC spreadsheet submitted for audit with the Company's Draft Annual Report, while the 2013 and 2014 values were determined using the Company's budgeted TRC spreadsheet for those years. The denominators from 2003 to 2011 are Actual total volumes that have been publicly filed in a variety Rate Case and Account Clearance proceedings. The denominators for 2013 and 2014 are the total franchise volumes as filed on February 28, 2013 in EB-2012-0394 and can be found at Exhibit B, Tab 2, Schedule 3.

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10³ m³		2003	2004	2005*	2006	2007	2008	2009	2010	2011	2012	2013	2014
<u>Incremental Annual Gas Savings</u>	Residential	28,320	23,633	35,150	26,553	29,329	17,152	12,737	9,997	9,763	4,273	1,614	1,658
	Apartment	14,572	12,683	16,509	17,477	22,519	17,915	15,095	14,688	21,725	14,205	17,996	18,427
	Commercial	8,284	13,256	16,111	19,840	12,882	21,372	19,694	22,393	27,802	25,326	32,084	32,852
	Industrial	26,844	21,338	23,647	25,651	27,191	23,847	22,331	18,547	17,962	18,059	22,659	23,112
	TOTAL PORTFOLIO	78,020	70,910	91,418	89,520	91,921	80,285	69,857	65,625	77,252	61,863	74,353	76,049
Total Franchise Consumption		12,646,200	12,256,800	12,166,000	11,487,000	12,073,300	11,907,500	11,334,800	10,940,600	11,503,300	11,300,100	11,473,251	11,473,251
<u>Annual Savings as % of Total Consumption</u>	Residential	0.22%	0.19%	0.29%	0.23%	0.24%	0.14%	0.11%	0.09%	0.08%	0.04%	0.01%	0.01%
	Apartment	0.12%	0.10%	0.14%	0.15%	0.19%	0.15%	0.13%	0.13%	0.19%	0.13%	0.16%	0.16%
	Commercial	0.07%	0.11%	0.13%	0.17%	0.11%	0.18%	0.17%	0.20%	0.24%	0.22%	0.28%	0.29%
	Industrial	0.21%	0.17%	0.19%	0.22%	0.23%	0.20%	0.20%	0.17%	0.16%	0.16%	0.20%	0.20%
	TOTAL PORTFOLIO	0.62%	0.58%	0.75%	0.78%	0.76%	0.67%	0.62%	0.60%	0.67%	0.55%	0.65%	0.66%
<u>Incremental Annual Gas Savings in GTA Project Influence Area</u>	Residential	13,593	11,344	16,872	12,745	14,078	8,233	6,114	4,798	4,686	2,051	775	796
	Apartment	6,994	6,088	7,924	8,389	10,809	8,599	7,245	7,050	10,428	6,819	8,638	8,845
	Commercial	3,977	6,363	7,733	9,523	6,184	10,258	9,453	10,749	13,345	12,157	15,400	15,769
	Industrial	12,885	10,242	11,351	12,312	13,051	11,446	10,719	8,903	8,622	8,668	10,876	11,094
	TOTAL PORTFOLIO	37,450	34,037	43,881	42,970	44,122	38,537	33,531	31,500	37,081	29,694	35,689	36,504
Average Measure Life of Gas Savings (Yrs)		12	12	12	12	12	12	12	12	12	12	12	12
<u>Life Time Gas Savings</u>	Residential	339,837	283,599	421,802	318,635	351,944	205,821	152,846	119,961	117,152	51,274	19,363	19,893
	Apartment	174,862	152,193	198,108	209,724	270,227	214,983	181,137	176,256	260,699	170,463	215,950	221,120
	Commercial	99,413	159,073	193,337	238,078	154,589	256,460	236,330	268,719	333,628	303,913	385,010	394,228
	Industrial	322,127	256,055	283,769	307,806	326,287	286,159	267,969	222,566	215,544	216,703	271,912	277,350
	TOTAL PORTFOLIO	936,238	850,921	1,097,016	1,074,244	1,103,048	963,422	838,282	787,502	927,022	742,353	892,235	912,591
Final Portfolio DSM Spending		\$10,965,294	\$13,059,174	\$19,174,811	\$18,785,159	\$21,383,865	\$23,026,660	\$25,420,061	\$24,000,645	\$27,243,872	\$30,606,510	\$31,588,200	\$32,158,764
Final Portfolio TRC Net Benefits		\$125,900,000	\$136,000,000	\$196,000,000	\$180,700,000	\$199,800,000	\$182,700,000	\$215,800,000	\$184,600,000	\$171,800,000	\$175,969,470	\$134,705,568	\$137,089,613

*2005 Program Year includes 3 month stub period

Witnesses:
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- c)
 - i. The reference is to the peak hour forecast used in Exhibit A, Tab 3, Schedule 4.
 - ii. to iv. Please refer to the response to Environmental Defence Interrogatories #12 and #13 found at Exhibit I.A4.EGD.ED.12 and I.A4.EGD.ED.14, respectively.
- d) Please refer to the response to Environmental Defence Interrogatories #14 and #20 found at Exhibit I.A4.EGD.ED.14 and Exhibit I.A4.EGD.ED.20
- e) Enbridge has conducted two DSM Potential studies over the past 10 years. These DSM Potential studies are comprehensive and look at potential in the residential, commercial and industrial sectors. These studies have been filed with the Board during previous case filings. Please refer to Exhibit JT1.12 filed in EB-2006-0021 (Filed 2006-05-26); and EB-2011-0295 Exhibit A, Tab 1, Schedule 1, Filed 2011-11-04

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