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April 8, 2016

Ontario Energy Board 2300 Yonge Street 27th Floor Toronto, ON M4P 1E4

Attention: Kirsten Walli, Board Secretary

Dear Ms. Walli:

Re: **Community Expansion Generic Proceeding** 

EB-2016-0004

Please find enclosed Ontario Sustainable Energy Association's interrogatories on evidence filed by Enbridge Gas Distribution.

Yours truly,

Robert Woon

Encl.

Document #: 972374

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## **ONTARIO ENERGY BOARD**

**IN THE MATTER OF** the *Ontario Energy Board Act, 1998*, S.O. 1998, c. 15 (Schedule B).

**IN THE MATTER OF** an Application under the Ontario Energy Board's own motion to consider potential alternative approaches to recover costs of expanding natural gas service to communities that are not currently served

## INTERROGATORIES OF ONTARIO SUSTAINABLE ENERGY ASSOCIATION ("OSEA") ON EVIDENCE FILED BY ENBRIDGE GAS DISTRIBUTION

April 8, 2016

## **Question 1**

Reference: Issue 4 d), Page 7 of 36

Preamble: Enbridge refers to several benefits associated with new community expansion for natural gas, including economic growth, employment opportunities and fuel cost savings for new customers.

a) Has Enbridge analyzed these types of benefits with respect to conversion to renewable energy sources (e.g. ground source heat pumps)? If so, please provide the results of the analysis.

## **Question 2**

Reference: Issue 10, Page 11 of 36

Preamble: "Conservation has been shown to be the most cost effective way to reduce percustomer consumption, which simultaneously reduces emissions and customer bills. Customers saved \$2.43 for every \$1 spent by Enbridge on DSM."

a) Is Enbridge intending to apply its conservation programs to potential customers in new communities to reduce the consumption of natural gas in advance of conversion?

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b) Has Enbridge completed its analysis of the costs and benefits of community expansion using "average consumption per customer", pre-conservation consumption or post-

conservation consumption?

**Question 3** 

Reference: Issue 10, Page 12 of 36

Preamble: "Enbridge has and will continue to work cooperatively with the Province to help lower CO2 emissions. There are a number of initiatives that Enbridge is pursuing that will help

the Province achieve its carbon reduction goals. Some of these will result in reduced gas

consumption in some market sectors while others will increase gas usage.

In the case of heating oil, diesel fuel for vehicles and propane natural gas provides a carbon reduction benefit. With respect to electricity the natural gas carbon advantage is clear when comparing the carbon footprint of natural gas to electricity for specific applications. Although counterintuitive, when natural gas is considered as the marginal fuel supporting electricity generation converting heating and water heating loads from electricity to natural gas will lead

to reductions in the Province's CO2 emissions."

a) Has Enbridge completed an analysis of the environmental benefits of converting heating and water loads from alternative fuels to renewable energy sources (e.g. the use of ground

source heat pumps)? If so, please provide the results of the analysis.

b) Please describe the specific applications where natural gas provides a lower carbon

footprint than electricity. Please provide supporting calculations and analysis.

**Question 4** 

Reference: Issue 11, Page 13 of 36

Preamble: "Based on the figures provided in Table 1 and the expected impacts of the pending cap and trade program as articulated by the Province, it is expected that the annual energy cost saving for the average residential customer converting their heating load from electricity to natural gas would fall from \$2,165 per year to \$2081 per year. The Company does not believe that this change will have any significant impact in the rate of customer conversion from existing

fuel types to natural gas."

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- a) Has Enbridge considered how the anticipated increase in natural gas prices under a cap and trade program will compare to the costs for renewable energy? If so, please provide the results of the analysis.
- b) Please provide calculations for renewable energy sources, such as geothermal, in Table 1.
- c) Has Enbridge assessed how the increase in natural gas prices will impact conversion rates to renewable energy sources (e.g. will customers be more likely to switch from existing energy sources directly to renewable energy sources without converting to natural gas)? If so, please provide the results of the analysis.

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