

ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO  
GREEN ENERGY COALITION INTERROGATORY #17

INTERROGATORY

Issue A.1.Load Forecast, Ref: Exh. A, T3, S4, pp. 7-8, 9.

- a) What is the “peak hour”? What season or month? What time(s) of day?
- b) Please provide an hourly load shape for each type of customer (residential, commercial, multi-family and industrial) for the peak day.
- c) Please provide copies of all available documentation of the derivation of the forecast of peak hourly consumption for the Influence Area.
- d) Please provide in an electronic spreadsheet all historical hourly consumption, temperature, and any other input data relied on for the regression analysis of hourly consumption against temperature.
- e) Please provide the results of all regression analyses of hourly consumption against temperature.
- f) Please explain what is meant by the term “41 DD.”
- g) Please provide all workpapers, including electronic spreadsheets with cell formulas intact, relied on to derive “peak hourly gas consumption at a 41 DD” from the results of the regression analyses.
- h) Please explain whether the derived “peak hourly gas consumption at a 41 DD” is assumed to remain constant or vary over the forecast period. If the latter, please provide the value for “peak hourly gas consumption at a 41 DD” for each year of the forecast period and explain in detail how the variation in each year of the forecast period was derived.
- i) With regard to the “reduction factor” for DSM and customer losses through building demolition, what is meant by DSM? Does it refer only to savings generated by utility programs? Or does it also account for naturally occurring efficiency improvements and conservation? If it only accounts for utility programs, how is naturally occurring efficiency and conservation captured in the utility’s forecast?

Witness: E. Naczynski  
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- j) For each year of the forecast period, please provide in an electronic spreadsheet the annual values for the “reduction factor” to account for DSM and building demolition.
- k) Please provide copies of all workpapers, including electronic spreadsheets with cell formulas intact, relied on to derive the “reduction factor.”
- l) If not clear from the information provided in response to previous questions, please indicate how much of the reduction factor is due to DSM vs. building demolition.
- m) Please provide copies of all available documentation of the determination of “replacement capacity requirements” for individual large volume customers.

## RESPONSE

- a) The demand on the Enbridge system is a bimodal consumption with a peak occurring in the morning and again in the evening. The peak hour refers to the morning peak and is approximately 20% higher than the average hourly flow. The bimodal demand is observed on the EGD system at all times of the year but is most pronounced during the winter heating season. The morning peak is at its maximum between 7 and 8 am.
- b) Enbridge does not determine a load shape for each customer.
- c) Please see the response to Environmental Defense IRs 2 to 13 at Exhibit I.A4.EGD.ED.2 through 13
- d) Please see the response to Environmental Defense IRs 2 to 13 at Exhibit I.A4.EGD.ED.2 through 13
- e) Please see the response to Environmental Defense IRs 2 to 13 at Exhibit I.A4.EGD.ED.2 through 13
- f) A 41 DD refers to a 41 degree day which is the average daily temperature. The DD is determined as follows.  $DD = 18 - (\text{average daily temperature})$ . For the GTA Project Influence Area this is an average daily temperature of -23 Celsius.
- g) Please see the response to Environmental Defense IRs 2 to 13 at Exhibit I.A4.EGD.ED.2 through 13

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- h) Please see the response to Environmental Defense IRs 2 to 13 at Exhibit I.A4.EGD.ED.2 through 13
- i) Please see the response to Environmental Defense IR#13 at I.A4.EGD.ED.13
- j) Please see the response to Environmental Defense IR#13 at I.A4.EGD.ED.13
- k) Please see the response to Environmental Defense IR#13 at I.A4.EGD.ED.13
- l) Please see the response to Environmental Defense IR#13 at I.A4.EGD.ED.13
- m) Individual Large Volume Customers are assessed on an individual basis and are not included in the growth forecast for the GTA Project. These customers by their nature have unique load and pressure requirements. Once a specific request is made by the potential customer a system review is completed and specific reinforcement requirements are determined.