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VIA EMAIL and RESS

November 12, 2024

Nancy Marconi
Registrar
Ontario Energy Board
2300 Yonge Street, Suite 2700
Toronto, Ontario, M4P 1E4

Dear Nancy Marconi:

Re: Enbridge Gas Inc. ("Enbridge Gas")
Ontario Energy Board ("OEB") File No. EB-2022-0335
Integrated Resource Planning Pilot Project
Written Responses to OEB Questions

Pursuant to the OEB's Procedural Order No. 6, enclosed please find Enbridge Gas's written responses to the OEB's questions.

If you have any questions, please contact the undersigned.

Sincerely,

Haris Ginis

Digitally signed by Haris Ginis
Date: 2024.11.12 12:13:23 -05'00'

Haris Ginis
Technical Manager, Regulatory Applications

cc: David Stevens (Aird & Berlis LLP, Enbridge Gas Counsel)
Lawren Murray (OEB Counsel)
Stephanie Cheng (OEB Staff)
Intervenors (EB-2022-0335)

ENBRIDGE GAS INC.

Answer to Question from
Ontario Energy Board (OEB)

Reference:

Technical Conference – Transcript, p.17 & 26
Exhibit JT 1.2
Response to Interrogatory IESO-2
Exhibit D, Tab 1, Schedule 1, pp.24-26

Preamble:

N/A

Question(s):

a) How many interval meters does Enbridge Gas have installed across its system?

b) Provide the estimated cost for installing a residential interval meter.

c) For the addresses that have interval meters, how many have installed cold climate air source heat pumps (ccASHPs) as part of programs administered by Enbridge Gas including Home Efficiency Rebate Plus (HER+)? Please divide this number into installations inside and outside the Southern Lake Huron (SLH) Pilot area.

Response:

Enbridge Gas interprets “interval meters” as Encoder Receiver Transmitter (“ERT”) technology, which is technology that can enable the Company to collect hourly natural gas usage data from customer meters. This hourly data can be used to quantify the impacts of IRPAs on natural gas system peak period flows/demand.[1]

Regarding ERTs, it is important to note the following:

- Not all ERTs have the ability to gather hourly data. For ERTs that can gather hourly data, the ERTs must be configured to gather hourly data.
- The hourly data needs to be collected from the ERTs by Enbridge Gas. This generally occurs by driving through the areas where the ERTs are located, in close proximity to the ERTs, to collect the data.

[1] Exhibit C, Tab 1, Schedule 2, p. 8.

Regarding the proposed Southern Lake Huron ("SLH") Pilot Project area,[2] most customers have ERTs installed.[3] Furthermore, Enbridge Gas understands that the majority of the ERTs installed in the SLH Pilot Project area have the ability to gather hourly data. This makes the SLH Pilot Project area an ideal area to test demand-side IRPAs, including collecting the hourly data from the meters.

a) There are approximately 193,400 meters with ERTs installed across Enbridge Gas's service area. However, Enbridge Gas does not have information regarding how many of these ERTs have the ability to gather hourly data. Furthermore, these ERTs are installed across a wide geographic area which can create challenges when collecting the hourly data from the meters.

b) The estimated cost for installing a residential ERT is $400 (inclusive of materials and labour).

c) For the ERTs noted in part a) above, approximately 3,580 have installed electric ccASHPs through Enbridge Gas programs, of which approximately 320 are within the SLH Pilot Project area.

[2] Exhibit A, Tab 2, Schedule 1, Attachment 1.
[3] Exhibit JT1.2.

ENBRIDGE GAS INC.

Answer to Question from
Ontario Energy Board (OEB)

Reference:

Exhibit D, Tab 1, Schedule 2, p.5

Preamble:

Enbridge Gas indicates that within the SLH Pilot area, there are 547 multi-residential customers representing 7.6% of system load.

Question(s):

a) How many multi-unit residential buildings does this represent?

b) Which of the proposed SLH Pilot measures (including enhanced targeted energy efficiency (ETEE) programs, demand response (DR), electrification, and advanced technologies) will be offered to multi-unit residential buildings? If necessary, please clarify how program eligibility varies by building size/ownership.

Response:

a) There are 337 multi-residential buildings consisting of 547 multi-residential customers within the SLH Pilot Project area. This includes multi-residential buildings with a single common meter as well as buildings where units are metered individually.

b) The following measures will be offered to multi-residential buildings:
   - DSM-type measures (under ETEE) that are applicable to multi-residential buildings, including both prescriptive and custom measures; and,
   - Commercial natural gas heat pumps (under Advanced Technology).

   Prescriptive DSM-type measures that are applicable to multi-residential buildings include condensing makeup air units, energy recovery ventilators (incl. multi-residential in-suite), and heat recovery ventilators (incl. multi-residential in-suite).[1] As noted at Exhibit D, Tab 1, Schedule 2, Page 16, Paragraph 31, these measures will

[1] Exhibit D, Tab 1, Schedule 2, p. 16, para. 31.

be initially included in the IRP Pilot Project. Enbridge Gas may adjust the measures list over the term of the IRP Pilot Project (for example, to respond to learnings).

By their nature, custom DSM-type measures include a wide range of measures. Custom space-heating measures that can reduce peak period flows/demands will be the primary focus. Some examples of these custom measures include boiler controls, building automation systems, and heat recovery.

Regarding general eligibility requirements for multi-residential buildings, the IRP Pilot Project will follow the same eligibility requirements as Enbridge Gas's DSM programs: multi-residential buildings are defined as Part 3 multi-residential buildings with four or more stories.

Regarding building size eligibility requirements for multi-residential buildings, there are no explicit requirements. However, for the prescriptive DSM-type measures specifically, some prescriptive measures have equipment sizing requirements to be eligible for an incentive, which could correlate to building size. For example, there may be a cubic feet per minute (CFM) equipment sizing requirement for a measure, which could correlate to building size. These restrictions are consistent with Enbridge Gas's DSM programs and exist to ensure sufficient energy savings for the measure.

There are no ownership status requirements for multi-residential buildings for the IRP Pilot Project.

The following measures will not be offered to multi-residential buildings:

- DSM-type measures (under ETEE) that are not applicable to multi-residential buildings (i.e., measures that are applicable to residential, commercial non-multi-residential, and/or industrial):
- Demand Response (applicable to residential only);
- Residential natural gas heat pumps (under Advanced Technology) (applicable to residential only);
- Simultaneous hybrid heating (under Advanced Technology) (applicable to residential only);
- Thermal energy storage (under Advanced Technology) (applicable to residential only);
- Electric cold climate air source heat pumps (under Electrification) (applicable to residential only); and,
- Electric ground source heat pumps (under Electrification) (applicable to residential only).

ENBRIDGE GAS INC.

Answer to Question from
Ontario Energy Board (OEB)

Reference:

Exhibit E, Tab 1, Schedule 1, p.3

Preamble:

N/A

Question:

Please provide details as to how the budget for advanced technologies is divided among the three technologies (simultaneous hybrid heating, natural gas heat pump, and thermal energy storage).

Response:

See Table 1 below for the Advanced Technology measures budget (provided at Exhibit E, Tab 1, Schedule 1, Page 3, Table 2) divided among the three measures:

Table 1: Advanced Technology Measures - Budget by Measure

	Simultaneous Hybrid Heating	**Natural Gas Heat Pumps**	**Thermal Energy Storage**	**Total**
Incentive Cost	$510,049	$395,959	$174,491	$1,080,499
Promotion & Delivery	$160,378	$127,335	$110,058	$397,770
Administrative Cost	$20,129	$15,664	$8,498	$44,291
Total	$690,556	$538,958	$293,047	$1,522,560