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VIA EMAIL and RESS

February 15, 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-2023-0200
Sandford Community Expansion Project
Interrogatory Responses - Update**

Further to the submission of interrogatory responses filed by Enbridge Gas on November 16, 2023 in the above noted proceeding, enclosed please find an update to Exhibit I.ED-6 to show the total number of potential customers in the project area.

Exhibit	Update
I.ED-6	A column was added to Table 2 in part b) to show the total number of potential customers in the project area.

If you have any questions, please contact the undersigned.

Sincerely,

Evan Tomek

Evan Tomek
Advisor, Leave to Construct Applications

cc: EB-2023-0200 Intervenors

ENBRIDGE GAS INC.

Answer to Interrogatory from
Ontario Energy Board Staff (STAFF)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, page 2 of 5, paragraphs 1 and 2, Plus Attachment 3:
Natural Gas Pipeline Expansion Study - Sandford

Preamble:

Enbridge Gas conducted surveys of potential residential customers to gauge interest in natural gas distribution service and conversion within the Project area. Enbridge Gas retained Forum Research, a third-party research supplier, to conduct surveys by telephone, online and in-person of potential residential customers in the Project area between August 23 and September 18, 2022. A total of 108 surveys were completed from a list of 199 homeowners, yielding a +/- 6.4% margin of error at the 95% confidence level. The level of completes represents a 54% response rate.

Question(s):

- a) Please compare the response rate for the Sandford Project to response rates in recent market surveys for other Enbridge Gas Phase II community expansion projects.
- b) Since the completion of the market research survey in September 2022, has Enbridge Gas obtained any additional information on the interest for switching to natural gas service as part of this community expansion project? Please provide any additional information.

Response:

- a) As described in the Company's pre-filed evidence at Exhibit B, Tab 1, Schedule 1, Attachment 3, the response rate was 54% based on a list of 199 properties identified for surveying. Surveys have not been completed for every community selected for funding in the second phase of the NGEP. Among 17 Phase 2 communities surveyed by Forum Research (primarily in 2022 and 2023), the response rate

ranged from 13% to 60%, with an average response rate of 40%. This is consistent with the average response rate from the previous group of surveys completed by Forum Research in 2020. The average response rate for the 2020 surveys was 39%, with a range of 17% - 64%. Accordingly, the response rate for the Sanford Project is higher than the average response rate for Phase 2 communities surveyed to-date.

- b) The Enbridge Gas Customer Attachment team conducted a small targeted Expression of Interest (EOI) campaign to 9 residents on Ball Road on May 23, 2023 to assist with scope refinement activities. Material delivered included the customer attachment package along with the EOI forms to complete. The Customer Attachment team spoke with 4 of the 9 homeowners with 3 being interested in natural gas and one uninterested. No responses from the other 5 residents were received and only one outreach took place. All 9 residents will have access to natural gas and will be included in the Project scope.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Ontario Energy Board Staff (STAFF)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, Pages 5-6 including Table 2

Preamble:

The Sandford Project's in-service date is planned to be January 2025. The table below shows forecasted attachments over ten years annually starting in 2025. Enbridge Gas forecasted attachments of 183 customers in the Community of Sandford by the tenth year of the project.

Table 2: Forecasted Customer Attachments for the Sandford Community
Expansion Project

Customer Additions	Year 1	Year 2	Year 3	Yer 4	Year 5	year 6	year 7	year 8	year 9	year 10	Total Forecasted
Residential Single-Family Conversion	34	34	25	18	18	9	9	9	9	8	173
Commercial	3	2	2	1							8
Institutional		1									
Industrial		1									
Total	37	38	27	19	18	9	9	9	9	8	183

Question(s):

- a) Please discuss the method and data Enbridge Gas used to forecast 183 residential attachments in the Community of Sandford over ten years.
- b) What is the assumed capture rate of the forecast attachments by the end of the tenth year?
- c) Please discuss any anticipated potential delays that may affect the construction schedule for the Project or achieving the forecast number of customer attachments in the first and second year.
- d) Please describe in detail Enbridge Gas's outreach activities, plans and/or programs to ensure that the customer attachments will be realized as forecasted.

- e) Please comment on differences in forecasted number of customer attachments Enbridge Gas provided in the project proposal approved for funding in Phase 2 of the NGEF process and the project subject to this application.
- f) Please provide a comparison of the actual customer attachments relative to the LTC forecasted customer attachments to date for all of Enbridge Gas's Phase 2 NGEF supported community expansion projects that are already in service.

Response:

- a) Municipal Property Assessment Corporation (MPAC) data was used to establish the basis for the forecast and to designate property types such as commercial or industrial. Field visits were subsequently conducted to confirm addresses within the proposed Project scope and verify desktop category assumptions where applicable. Further, Enbridge Gas retained Forum Research to conduct surveys of potential customers in 2022, results of which yielded an 87% attachment rate for existing residential properties and small commercial properties. This percentage was applied to the total number of existing residential properties within scope of the Project.
- b) At the end of the ten-year period, the overall assumed capture rate for the Project is approximately 88%.
- c) Enbridge Gas does not anticipate any delays to the construction schedule for the Project and believes that the attachment forecast remains accurate as presented at Exhibit B, Tab 1, Schedule 1, Table 2 based on support received from the community and market research conducted. Please note, the 'Industrial' customer addition identified in Table 2 was mischaracterized and is an agricultural property with residential-equivalent loads. This mischaracterization does not impact the Project economics. Please also see part a) to this response for additional information regarding Enbridge Gas's attachment forecast for the Project.
- d) Enbridge Gas' Customer Attachment team will begin customer outreach in 2024 and continue throughout the project lifecycle. Outreach activities will include customer information sessions (Kiosks), digital/social marketing campaigns, and individual one-on-one conversations at residents' homes upon request or by means of door-to-door engagement activities. This provides customers the opportunity to ask personalized questions unique to their individual circumstances. Customers can share their energy consumption from previous years to obtain cost comparisons and potential savings by assuming equivalent consumption had they been on natural gas. Enbridge Gas expects to conduct additional customer attachment events/sessions throughout Project construction and execution in coordination with

the Municipality and the community.

Please see the response at Exhibit I.STAFF-1 part b) for more information regarding outreach activities completed to date.

- e) As discussed in the response to part a) above, the Company’s customer attachment forecast provided in the project proposal approved for funding in Phase 2 of the NGEF process was developed based on a table-top estimate and desktop information available at the time. Customer count information relied solely upon MPAC data and municipal/community address extracts to establish the basis for the forecast and to designate property types (e.g., residential, commercial or industrial). Following funding approval, development of the Project progressed and included field visits to confirm addresses, refine the total potential customer count and Project scope, and to verify desktop category assumptions, where applicable. As a result of this Project development, the Company gathered more accurate data relative to the MPAC information that supported its original proposal. Additionally, in 2022 Enbridge Gas retained Forum Research to conduct market research to ensure that the attachment forecast for the Project is underpinned by the best available information. Results from the Forum Research survey indicated that 87% of respondents would be extremely likely (very likely, or likely) to connect to natural gas. As a result, the forecasted number of customers for the Project was 183.
- f) Please see Table 1 for a comparison of the actual customer attachments relative to the LTC forecasted customer attachments to date for all of Enbridge Gas’s Phase 2 NGEF supported community expansion projects that are already in service.

Table 1

Forecasted vs. Actual Attachments for In-Service Phase 2 Community Expansion Projects

Line No.	Project Name	Number of 10-year forecasted customers	Actual customer attachment to date (October 2023)
1	Brunner	44	40
2	Kenora District (Hwy 594)	30	26
3	Stanley’s Old Maple Lane Farm	11	12
4	Burks Falls	41	11
5	Haldimand Shores	112	56

ENBRIDGE GAS INC.

Answer to Interrogatory from
Ontario Energy Board Staff (STAFF)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, Pages 3-7
Exhibit E, Tab 1, Schedule 1, Page 2
Exhibit H, Tab 1, Schedule 1, Attachment 1, Page 5

Preamble:

In June 2021, the proposed Sandford Community Expansion Project was approved to receive funding assistance as part of Phase 2 of the Government of Ontario's Natural Gas Expansion Program (NGEP). Among other things, the NGEP proposal assumed a market penetration rate of 65%.¹

In September 2022, Enbridge Gas retained Forum Research to conduct surveys of potential customers by telephone, online and in-person. Forum Research's results indicate that 87% of respondents would likely convert to natural gas if it were made available. Of those likely to convert, approximately 69% indicated that they would convert within 1 year of natural gas service becoming available and 24% indicated they would convert within 1-2 years of natural gas service becoming available.

In August 2023, Enbridge Gas filed its application seeking leave to construct (LTC) the Sandford project.

OEB staff prepared Table 1 below, which compares the NGEP proposal to the LTC application in terms of pipeline lengths, 10-year customer forecast, and capital costs.

The estimated capital costs have increased by approximately \$0.57 million relative to the NGEP proposal. Enbridge Gas stated that the increase is attributed primarily to an increase in the customer forecast driven by updated market research and field verification.

Enbridge Gas stated that the primary factors affecting the current estimated PI calculation as compared to the estimated PI in its NGEP proposal include an increase in the capital cost estimate, and a reduction in forecasted large volume industrial customers partially offset by an increase in the residential and commercial customer forecast.

¹EB-2019-0255, Sandford Schedule 6V-3, Section 3.4.

Enbridge Gas stated that the Sandford Project does not contain any planned future phases and is not dependent upon any previously filed leave to construct application by Enbridge Gas.

Table 1: Comparison of NGEF Proposal and LTC Application

	NGEP Proposal	LTC Application	Change	
Length NPS 2 (km)	6.92	4.90	-2.02	-29.1%
Length NPS 4 (km)	6.31	8.40	2.09	33.1%
Total Length (km)	13.23	13.30	0.07	0.6%
Customer Forecast	140	183	43	30.7%
Total Capital Cost	\$6,631,637	\$7,202,770	\$571,133	8.6%
NGEP Funding	\$4,392,566	\$4,392,566	\$0	0.0%
Net Capital Cost	\$2,239,071	\$2,810,204	\$571,133	25.5%
Profitability Index	0.43	0.25	-0.18	-41.9%

Question(s):

- a) Please confirm that the summary information provided in Table 1 is correct. If not, please identify and correct any errors. Please also file the original NGEF proposal for the Sandford Project on the record of the current proceeding.
- b) Please explain in more detail the reasons for the \$0.57 million cost variance from Enbridge Gas’s project proposal for funding under Phase 2 of the NGEF. To support your response, please provide a table (breaking down the itemized cost description) separately comparing the NGEF cost estimate to the current cost estimate. Please discuss any major variances in each itemized cost estimate.
- c) OEB staff notes that the overall length of pipelines is relatively unchanged but that in the new design the length of NPS 2 is shorter and the length of NPS 4 is longer. Why was it necessary to increase the length of the NPS 4 pipeline?
- d) Please confirm whether the phrase “field verification” refers to any geotechnical analysis, subsurface utility engineering, and soil sampling that is used to inform pipeline design. As part of the response, please explain how the various activities influenced the total capital cost of the Sandford Project.

e) Please confirm that matters relating to the appropriate net capital amount to be included in rate base is properly addressed in Enbridge Gas's next rebasing proceeding.

Response:

- a) Confirmed. The summary information provided in Table 1 is correct. Please see Attachment 1 to this response for original NGEF proposal for the Sandford Project.
- b) Table 2 below shows a cost variance breakdown comparing the NGEF cost estimate to the current cost estimate.

Table 2
Cost Estimate Comparison – NGEF Proposal and Current Project Proposal

Item No.	Description	Table 1 Project Cost - ORIGINAL			Project Proposal		
		Pipeline Costs	Ancillary Costs	Total	Pipeline Costs	Ancillary Costs	Total
1	Material	\$167,439	\$80,000	\$247,439	\$176,007	\$156,789	\$332,797
2	Labour and Construction	\$3,610,272	\$876,698	\$4,486,970	\$2,649,531	\$1,689,405	\$4,338,936
3	Outside Services	\$636,115	\$	\$636,115	\$1,270,960	\$36,771	\$1,307,731
4	Land, Permits, Approvals and Consultations	\$11,813	\$	\$11,813	\$37,507	\$	\$37,507
5	Direct Overheads	\$57,803	\$38,183	\$95,986	\$336,925	\$104,050	\$440,976
6	Contingency	\$896,688	\$198,976	\$1,095,665	\$428,965	\$163,868	\$592,833
7	Sub-Total	\$5,380,130	\$1,193,858	\$6,573,988	\$4,899,896	\$2,150,884	\$7,050,779
8	Interest During Construction	\$53,433	\$4,215	\$57,648	\$150,601	\$1,390	\$151,990
9	Total Project Costs	\$5,433,563	\$1,198,073	\$6,631,636	\$5,050,496	\$2,152,273	\$7,202,770

The original NGEF Project proposal included a cost estimate based on high level desktop information available at the time. Upon receipt of Project-specific approval for NGEF funding, the Company set out to refine the Project scope and associated estimate by conducting site specific investigations including site visits, field surveys,

environmental studies, and consultation efforts with permitting agencies. The sources of significant variances identified are described in greater detail below:

- Materials – The material cost of the project increased due to the additional service connection at longer lengths as well as the additional NPS 4 main required (as described in c).
 - Outside services – Enbridge Gas originally assumed the area could be drafted with simplified existing base plans but upon further review, full topographic maps and subsurface utility engineering were required to ensure a constructible design was executed to avoid utility conflicts, therefore adding significant cost to the outside services. Additionally, Inspection costs were also estimated higher to accommodate nearly 2.5 years of pre-work activities which was originally assumed to be completed by internal employees. The volume of work in the phase 2 portfolio has increased the reliance on contractors to support execution tasks.
 - Overheads – The overheads include additional labour costs associated with internal tapping crews which were previously assumed to be contracted as an outside service.
- c) The original proposal included 6.9 km of NPS 2 pipeline, 6.3 km of NPS 4 pipeline and a new 379 kPa set outlet pressure district station for the originally estimated 140 customers. The current proposal has an increased customer count of 183, which will tie into the system downstream of the existing station that is planned to undergo a station replacement and will be set to an outlet pressure of 207 kPa. Due to the increased gas supply demand at the lower operating pressure on the existing station, the NPS 2 and NPS 4 pipeline lengths have been adjusted to 4.9 km and 8.4 km, respectively. These pipeline lengths accommodate the required capacity needs for the Sanford system.
- d) Not confirmed. In the context used within this proceeding, specifically in Exhibit E, Tab, 1, Schedule 1, “field verification” refers to customer outreach tasks on potential customers, the costs of which have been included in "outside services".
- e) Enbridge Gas has included the original NGEP forecasted capital costs in its 2024 Rate Rebasing application. The final capital costs to be included in rate base will be determined at the rebasing application following the end of the 10-year rate stability period for the project.

Schedule 6V
Enbridge Gas Community Expansion Project Proposal
Sandford

**Enbridge Gas Inc.
Potential Projects to Expand Access to Natural Gas Distribution**

Part I – Name of Proponent	
Name of Proponent: Enbridge Gas Inc.	File No: EB-2019-0255
Project Name: Sandford Community Expansion Project	
Address of Head Office: 50 Keil Drive North Chatham, ON N7M 5M1	Telephone Number: 519-436-4600
Name of Individual to Contact: Patrick McMahon	Office Telephone Number: 519-436-5325
	Cell Phone Number: 519-437-0759
	Email Address: patrick.mcmahon@enbridge.com

Part II – Description of Proponent’s Technical Expertise and Financial Capability
<p><i>Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.</i></p> <p><i>A proponent that is not currently rate-regulated as a natural gas distributor by the OEB and that has multiple proposed projects is only required to provide the information in this Part once, unless the proponent has different organizational or financial structure approaches for its projects. In that case, the information in this Part must be provided for each different organizational or financing structure.</i></p>

Part II – Description of Proponent’s Technical Expertise and Financial Capability	
2.1	<p>Describe the proponent’s technical expertise to develop, construct, operate and maintain a natural gas distribution system.</p> <p>N/A</p>
2.2	<p>Describe the proponent’s financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following:</p> <ul style="list-style-type: none"> • Current credit rating of the proponent, its parent or associated companies. • Financial statements for each of the past two fiscal years. This may include audited financial statements, annual reports, prospectuses or other such information. If the proponent does not have financial statements (because it is a new entrant), the proponent is instead to provide pro forma financial statements for two years along with notes or business plans explaining the assumptions used in preparing the pro forma statements, where the documents must be signed by at least one key individual. • If the proponent needs to raise additional debt or equity to finance the proposed project, evidence of the proponent’s ability to access the debt and equity markets. <p>New entrants that cannot provide the information identified in this section should explain why that is the case and provide the best information that they have available.</p> <p>N/A</p>

Part III – Description of and Support for Project

3.1

Provide a general overview of the project, which is to include the following: communities to be connected, including whether the project would serve any on-reserve Indigenous communities; existing population of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size.

Enbridge Gas is proposing to provide gas distribution service in the community of Sandford within the Township of Uxbridge. The proposed facilities will provide access to natural gas to a forecasted 140 customers (130 residential, 8 commercial / institutional and 2 industrial).

The proposed project will tie-in to an existing 4” steel pipe at the intersection Concession Road 6 and Bolton Drive. The supply lateral will run north along Concession Road 6 to Sandford Road to provide gas service to the community.

A station is required at the tie-in point to reduce from extra high pressure to distribution pressure.

The approximate length and size of the distribution pipelines required:

Pipe Type	Diameter (NPS)	Length (m)
Polyethylene	2	6,916
Polyethylene	4	6,310

Please refer to Schedule 6V-1 for Project Map.

3.2

Provide the annual and cumulative forecast of the number of customer attachments over the ten-year rate stability period by residential, commercial/institutional and industrial sectors for each community. Indicate for each customer type whether the service to be provided would be firm or interruptible.

Please refer to Schedule 6V-2, Table 3.2.

3.3

Provide the annual and cumulative forecast of volumes (in m³) over the ten-year rate stability period by residential, commercial/institutional and industrial sectors for each community.

For the residential segment, the default value for the average consumption level is 2,200 m³ per year. A proponent that has more accurate information regarding the annual consumption for residential customers in a given community may use that value, in which case it must explain how it has determined that it is more accurate than the default.

Please refer to Schedule 6V-2, Table 3.3.

<p>3.4</p>	<p>Provide the estimated conversion costs to convert each of the existing heating systems (e.g., propane forced air, oil forced air, electric forced air and electric baseboard) and water-heating systems (e.g., electric, oil and propane) to natural gas. To the extent available, provide information on the current proportion of customers on each type of heating system.</p> <p>Provide the estimated annual costs of the existing alternative fuels relative to natural gas, including the annual savings with natural gas. The calculation of household energy costs for natural gas should include conversion costs, commodity costs, associated upstream transportation costs to Ontario, incremental CNG and LNG costs (where applicable), costs under the federal <i>Greenhouse Gas Pollution Pricing Act</i> and distribution costs. The assessment of household energy cost impacts should include greenhouse gas (GHG) emission estimates (whether positive or negative) related to converting existing heating and water heating systems to natural gas. The major assumptions (e.g., conversion factors) used in the calculations must also be provided.</p> <p>Please refer to Schedule 6V-3, Table 3.4.</p>
<p>3.5</p>	<p>Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.</p> <p>Please refer to Schedule 6V-4 for Proposed Construction Schedule.</p>
<p>3.6</p>	<p>Provide letter(s) from the Band Council(s) and/or local government, as applicable, stating support for the project, including details of any commitment to financial support.</p> <p>Please refer to Schedule 6V-5.</p>
<p>3.7</p>	<p>Provide a copy of the Certificate of Public Convenience and Necessity (Certificate) for the area to be served, if held by the project proponent. If not, indicate whether another entity holds the Certificate for the area to be served, if known, and if so, identify the Certificate holder.</p> <p>Where the project proponent holds a Certificate for the areas to be served, specify the boundaries of the Certificate and indicate whether the boundaries encompass the entire area that would be supplied by the proposed project.</p> <p>Please refer to Schedule 6V-6 for Enbridge’s CPCN for the Township of Uxbridge (FBC 266) which covers the entire area of the proposed project.</p>

	<p>Note: With the creation of the Regional Municipality of Durham in 1974, Uxbridge Township was amalgamated with the Town of Uxbridge and Scott Township to create an expanded Township of Uxbridge. Enbridge Gas holds CPCNs for each of the former municipalities. Sandford is located within the former Scott Township.</p>
<p>Part IV – Cost of Project</p>	
<p>4.1</p>	<p>Confirm that the proposed project includes a ten-year rate stability period.</p> <p>The proposed project does include a ten-year rate stability period.</p>
<p>4.2</p>	<p>Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten).</p> <p>Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).</p> <p>For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs.</p> <p>Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility’s proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent’s project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences.</p> <p>Please refer to Schedule 6V-2, Table 4.2.</p>

4.3	<p>Provide the total annual forecast revenue requirement of the project over the ten-year rate stability period (using fully allocated OM&A costs) and rate base amount at the end of year ten.</p> <p>Complete the tables below:</p> <p>Revenue Requirement</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Description</th> <th>Year 1</th> <th>Year 2...</th> <th>Year 10</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Revenue Requirement</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Description</th> <th>Year 10</th> </tr> </thead> <tbody> <tr> <td>Closing Rate Base</td> <td></td> </tr> </tbody> </table> <p>Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).</p> <p>Please refer to Schedule 6V-2, Table 4.3.</p>	Description	Year 1	Year 2...	Year 10	Total	Revenue Requirement					Description	Year 10	Closing Rate Base	
Description	Year 1	Year 2...	Year 10	Total											
Revenue Requirement															
Description	Year 10														
Closing Rate Base															

Part V – Section 36.2 Funding	
5.1	<p>Provide the total amount of section 36.2 funding needed to support the project.</p> <p>\$4,392,566</p> <p>Please refer to Schedule 6V-2, Table 5.1.</p>
5.2	<p>Provide the section 36.2 funding amount per customer number served in year ten of the project.</p> <p>\$31,375</p> <p>Please refer to Schedule 6V-2, Table 5.2.</p>
5.3	<p>Provide the section 36.2 funding amount per volume (m³) in year ten of the project.</p> <p>\$7.63</p> <p>Please refer to Schedule 6V-2, Table 5.3.</p>

Part VI – Distribution Charge	
6.1	<p>Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.</p> <p>Provide a confirmation that there would be no material cross-subsidization between rate classes.</p> <p>Please refer to Schedule 6V-2, Table 6.1.</p> <p>Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.</p>

Part VII – Profitability Index / Benefit to Cost Ratio	
7.1	<p>Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.</p> <p>The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a “portfolio” of projects).</p> <p>Please refer to Schedule 6V-2, Table 7.1.</p>
7.2	<p>Provide, in a summary table that otherwise meets the requirements of section 7.1, the expected PI of the project without the proposed section 36.2 funding.</p> <p>Please refer to Schedule 6V-2, Table 7.2.</p>

Part VIII – OEB Approvals	
8.1	<p>Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order).</p> <ul style="list-style-type: none">• Leave to Construct
8.2	<p>For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB’s website and where applicable assume a written hearing process.</p> <p>Please refer to Schedule 6V-4.</p>

Schedule 6V-1
Enbridge Gas Community Expansion Project Proposal

Sandford

Sandford



Schedule 6V-2
Enbridge Gas Community Expansion Project Proposal

Sandford

Community Expansion **Sandford**
InService Date: Nov-01-2023

EB-2019-0255
 Schedule 6V-2

Table 3.2 - Customer Attachments Over The Rate Stability Period

<u>Customer Type</u>	<u>Firm / IT</u>	<u>Project Year</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
Residential	Firm		35	31	12	8	7	8	7	8	7	7	130
Commercial	Firm		-	3	2	1	-	-	-	-	-	-	6
Institutional	Firm		-	1	-	-	-	-	-	-	-	-	1
Agricultural	Firm		-	1	-	-	-	-	-	-	-	-	1
Industrial	Firm		-	2	-	-	-	-	-	-	-	-	2
Total Customers			35	38	14	9	7	8	7	8	7	7	140
Cumulative Customers			35	73	87	96	103	111	118	126	133	140	

Table 3.3 - Annual and Cumulative Volumes Over The Rate Stability Period (m3)

<u>Customer Type</u>	<u>Project Year</u>	<u>Annual Volumes - m3</u>										<u>Total</u>
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	
Residential		42,000	121,200	172,800	196,800	214,800	232,800	250,800	268,800	286,800	303,600	2,090,400
Commercial		-	4,900	13,500	18,400	19,600	19,600	19,600	19,600	19,600	19,600	154,400
Institutional		-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
Agricultural		-	1,200	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	20,400
Industrial		-	100,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,700,000
Total Volumes		42,000	252,300	438,700	467,600	486,800	504,800	522,800	540,800	558,800	575,600	4,390,200

<u>Customer Type</u>	<u>Project Year</u>	<u>Cumulative Volumes - m3</u>									
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
Residential		42,000	163,200	336,000	532,800	747,600	980,400	1,231,200	1,500,000	1,786,800	2,090,400
Commercial		-	4,900	18,400	36,800	56,400	76,000	95,600	115,200	134,800	154,400
Institutional		-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000
Agricultural		-	1,200	3,600	6,000	8,400	10,800	13,200	15,600	18,000	20,400
Industrial		-	100,000	300,000	500,000	700,000	900,000	1,100,000	1,300,000	1,500,000	1,700,000
Total Volumes		42,000	294,300	733,000	1,200,600	1,687,400	2,192,200	2,715,000	3,255,800	3,814,600	4,390,200

Table 4.2 - Total Capital Costs At End Of The Rate Stability Period

Total Capital Costs	<u>Year 10</u>	\$ <u>6,631,637</u>
---------------------	----------------	---------------------

Table 4.3 - Revenue Requirement Over The Rate Stability Period

	<u>Project Year</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
Revenue Requirement		\$ <u>85,560</u>	<u>137,905</u>	<u>158,629</u>	<u>166,991</u>	<u>172,284</u>	<u>177,387</u>	<u>181,790</u>	<u>186,167</u>	<u>190,449</u>	<u>194,325</u>	\$ <u>1,651,486</u>

Closing Rate Base (net of proposed Section 36.2 funding)	<u>Year 10</u>	\$ <u>1,834,160</u>
--	----------------	---------------------

Community Expansion **Sandford**
InService Date: Nov-01-2023

EB-2019-0255
 Schedule 6V-2

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project \$ 4,392,566

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served \$ Year 10
31,375

Table 5.3 - Section 36.2 Funding Amount Per Volume (m3)

Section 36.2 Funding Amount Per Volume (m3) \$ Year 10
7.63

Table 6.1 - Distribution Charge

	<u>Project Year</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
Distribution Revenue	\$	7,360	30,144	49,234	55,107	58,787	61,941	65,096	68,250	71,404	74,348	\$ 541,671
SES Revenue		9,660	58,029	100,901	107,548	111,964	116,104	120,244	124,384	128,524	132,388	1,009,746
Total Distribution Charge	\$	<u>17,020</u>	<u>88,173</u>	<u>150,135</u>	<u>162,655</u>	<u>170,751</u>	<u>178,045</u>	<u>185,340</u>	<u>192,634</u>	<u>199,928</u>	<u>206,736</u>	<u>\$ 1,551,417</u>

Table 7.1 - Profitability Index (PI) Inclusive of Section 36.2 Funding

	<u>Net Present Value</u>
<u>Cash Inflow</u>	
Revenue:	
Distribution Revenue	\$ 1,129,446
System Expansion Surcharge (SES) Revenue	1,915,187
Total Revenue (A)	<u>3,044,633</u>
Expenses:	
O&M Expense	(165,506)
Municipal Tax	(468,023)
Income Tax	<u>(309,821)</u>
Total Expenses (B)	<u>(943,350)</u>
Total Cash Inflow (C = A + B)	\$ 2,101,282
<u>Cash Outflow</u>	
Gross Capital	(6,494,130)
Proposed Section 36.2 Funding	4,392,566
Change in Working Capital	<u>282</u>
Total Cash Outflow (D)	<u>\$ (2,101,282)</u>
Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)	<u>1.00</u>

Community Expansion **Sandford**
InService Date: Nov-01-2023

EB-2019-0255
 Schedule 6V-2

Table 7.2 - Profitability Index (PI) Without Section 36.2 Funding

	<u>Net Present Value</u>
<u>Cash Inflow</u>	
Revenue:	
Distribution Revenue	\$ 1,129,446
System Expansion Surcharge (SES) Revenue	<u>1,915,187</u>
Total Revenue (A)	3,044,633
Expenses:	
O&M Expense	(165,506)
Municipal Tax	(468,023)
Income Tax	<u>366,797</u>
Total Expenses (B)	(266,732)
Total Cash Inflow (C = A + B)	\$ 2,777,901
<u>Cash Outflow</u>	
Gross Capital	(6,494,130)
Change in Working Capital	<u>282</u>
Total Cash Outflow (D)	\$ (6,493,848)
Profitability Index (PI) Without Section 36.2 Funding (C / D)	<u>0.43</u>

Schedule 6V-3
Enbridge Gas Community Expansion Project Proposal

Sandford

Section 3.4 Sandford

Total Forecasted Customers 140 Penetration Rate 65%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer ¹	Estimated Conversion Cost ²	Estimated Annual Energy Costs (existing fuel)	Estimated Annual Energy Costs (natural gas)	Estimated Annual Savings per customer	Estimated Annual Savings	Estimated Annual GHG per customer Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	29	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 46,150	7.2	-2.7	211	(79)
Electricity F/A	13	9%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 8,901	0.6	3.9	7	49
Electricity Baseboard	17	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 11,868	0.6	3.9	10	66
Propane	62	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 17,453	5.6	-1.1	344	(67)
Wood	13	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	7	5%	\$ 5,000	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Total	140	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 84,373	13.9	4.1	572	(31)

¹ Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specifically, the fuel share distribution from 27 prospective expansion areas surveyed in 2018 and 2020 were averaged, with weights based number of homes in each area. Fuel percentages may not add up to 100% due to rounding error.

² Based on Market Research gathered information. All of the costs are installed costs, so the cost of new equipment + the cost of having it installed.

	Emission Factors				
	CO2	CH4	N2O	CO2e	Units
Natural Gas	1863 g/m3	0.037 g/m3	0.035 g/m3	0.001874355 tonnes/m3	
Heating Oil	2725 g/L	0.006 g/L	0.031 g/L	0.002734388 tonnes/L	
Propane	1510 g/L	0.024 g/L	0.108 g/L	0.001542784 tonnes/L	
Electricity	30 g/kWh	-	-	0.00003 tonnes/kWh	
Wood	-	-	-	-	-

Emission Factor Sources:

Natural gas, heating oil and propane CO2 factors: Guideline for Quantification, Reporting and Verification of GHG Emissions - Ontario Ministry of Environment, Conservation and Parks

Natural gas, heating oil and propane CH4 and N2O factors: Canada's Greenhouse Gas Quantification Requirements, December 2019 - Environment and Climate Change Canada

Electricity factors: 2020 National Inventory Report (Part 3) - Environment and Climate Change Canada (using 2018 consumption intensity for Ontario)

Estimated Annual GHG (tCO2e) = Emission Factors x Consumption Equivalent

Estimated Annual GHG Change (tCO2e) = Estimated Annual GHG For Natural Gas - Estimated Annual GHG For Existing Fuel (tCO2e)

Rate 1 (Community Expansion, Non-FN)					
Consumption Equivalent			Price per Unit		
Gas	m3	2400	Gas (incl. fixed)	\$/m3	0.617
Heating oil	L	2623	Heating oil	\$/L	1.163
Electricity	kWh	19460	Electricity	\$/kWh	0.112
Propane	L	3622	Propane	\$/L	0.487

Notes:

Gas prices correspond to EGI (EGD) April 2020 rates, including 23 cents per m³ SES charge.

Heating Oil Prices correspond to the latest available Toronto retail prices (February 2019)

Electricity prices correspond to Hydro One (Med Density - R1) distribution rates implemented January 1, 2020 and includes the new Ontario Electricity Rebate (OER)

The calculated annual savings vs electricity do not reflect the COVID-19 Emergency pricing which is effective for 45 days

Propane prices correspond to the latest available monthly average EDPRO residential rates for Zone 4 (March 2020)

Carbon price is included for all energy types as reported. All costs exclude HST.

Schedule 6V-4
Enbridge Gas Community Expansion Project Proposal

Sandford

Schedule 6V-5
Enbridge Gas Community Expansion Project Proposal

Sandford



The Corporation of the

Township of Uxbridge

In The Regional Municipality of Durham

Town Hall
51 Toronto Street South
P.O. Box 190
Uxbridge, ON L9D 1T1
Telephone (905) 852-9181
Facsimile (905) 852-9674
Web www.uxbridge.ca

SENT VIA EMAIL

June 24, 2020

Mark Wilson
Senior Advisor Municipal Affairs
Enbridge Gas Distribution
mark.wilson@enbridge.com

**RE: NATURAL GAS EXPANSION PROGRAM - SANDFORD
TOWNSHIP FILE: A-00 G**

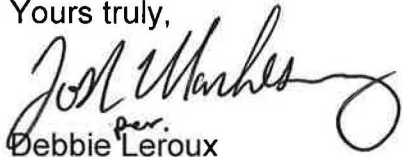
In December 2019, the Government of Ontario announced plans to further increase access to natural gas by making financial support available for new service expansion projects. This Natural Gas Expansion Program will unlock financial support needed to expand natural gas service to new areas across Ontario that are not economically feasible without support. Our municipality is one such area, and we are eager to bring this affordable, reliable fuel source to our residents and businesses.

On behalf of the Township of Uxbridge, I would like to formally express our interest to have SANDFORD included on Enbridge Gas' list of projects being proposed to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Program.

Based on the Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may include support for the proposed project from Band Council(s) and/or local government, as applicable, demonstrated through a written expression of support and/or a commitment to financial support in its project submissions.

Natural gas is the most common, affordable heating fuel in Ontario. We fully support the efforts of Enbridge Gas Inc., the OEB and the Ministry of Energy, Northern Development and Mines. We look forward to working together to expand natural gas access in our community to attract new opportunities, help create jobs and lower monthly costs for our residents.

Yours truly,

A handwritten signature in cursive script, appearing to read "Joe Markes". The signature is written in black ink and is positioned above the typed name.

^{per.}
Debbie Leroux

Director of Legislative Services/Clerk
/jlb



In The Regional Municipality of Durham

The Corporation of the
**Township
of
Uxbridge**

Town Hall
51 Toronto Street South
P.O. Box 190
Uxbridge, ON L9P 1T1
Telephone (905) 852-9181
Facsimile (905) 852-9674
Web www.uxbridge.ca

SENT VIA EMAIL

June 24, 2020

Mark Wilson
Senior Advisor Municipal Affairs
Enbridge Gas Distribution
mark.wilson@enbridge.com

**RE: NATURAL GAS EXPANSION PROGRAM - SANDFORD
TOWNSHIP FILE: A-00 G**

Please be advised that during the regular meeting of the General Purpose and Administration Committee of June 15, 2020 the following motion was carried:

THAT correspondence from Enbridge Gas regarding a natural gas expansion program opportunity to bring natural gas to other communities in Uxbridge be received for information;

AND THAT staff send a letter of support to Enbridge Gas with respect to bringing the Natural Gas Expansion Program to the Hamlet of Sandford including financial support as provided in the previous intake.

Should you have any questions or concerns with respect to the above, don't hesitate to contact the undersigned.

Yours truly,

Debbie Leroux
Director of Legislative Services/Clerk
/ljr

Schedule 6V-6
Enbridge Gas Community Expansion Project Proposal

Sandford

219

EB-2019-0255
Schedule 6V-6

IN THE MATTER OF The Municipal Franchises Act, R. S. O. 1950 Chapter 249, and amendments thereto;

AND IN THE MATTER OF an application by The Consumers' Gas Company for a certificate of public convenience and necessity to construct works and to supply natural gas to the Township of Scott in the County of Ontario

B E F O R E:

A. R. Crozier, Chairman } Wednesday, the 25th
J. J. Wingfelder, Commissioner } day of June, 1958.

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

UPON THE APPLICATION of The Consumers' Gas Company (hereinafter referred to as the "Applicant") for a certificate pursuant to the provisions of The Municipal Franchises Act, R. S. O. 1950 Chapter 249 and amendments thereto and upon the hearing of such application by the Board in the City of Toronto on the 25th day of June, 1958 after due notice of such hearing had been given as directed by the Board, in the presence of Counsel for the Applicant, no one else appearing, upon consideration of the evidence and exhibits produced at the hearing and upon hearing what was alleged by Counsel aforesaid,

- 1. THIS BOARD DOETH ORDER THAT a Certificate of Public Convenience and Necessity be and the same is hereby granted to The Consumers' Gas Company for the supply of natural gas to the inhabitants of the Township of Scott and for the construction of the works necessary therefor.**
- 2. The Board fixes the costs of this Application at \$10.00 payable forthwith by the Applicant.**

DATED at Toronto this 19th day of August 1958.

ONTARIO FUEL BOARD

.....
A. R. Crozier
 Chairman
L. J. Wingfelder
 Commissioner

ENBRIDGE GAS INC.

Answer to Interrogatory from
Ontario Energy Board Staff (STAFF)

Interrogatory

Reference:

Exhibit D, Tab 1, Schedule 1, Page 6

Preamble:

Enbridge Gas has sent the design for the proposed facilities to the Technical Standards & Safety Authority (TSSA) for review and is awaiting a response.

Question(s):

- a) Has Enbridge Gas received a reply from the TSSA? If so, please file a copy of the reply. If not, when is a response anticipated?

Response:

- a) The TSSA provided a reply on August 1, 2023. This correspondence is set out at Attachment 1 to this Exhibit.

The TSSA also provided a letter, set out at Attachment 2 to this Exhibit, on November 9, 2023 that confirmed the TSSA's review of the technical aspects of the Project, and that the TSSA did not find any concerns in regards to Ontario Regulation 210/01: Oil and Gas Pipeline Systems or CSA Z662-19.

Fion Lam

From: Ramona Santiago <rsantiago@tssa.org>
Sent: Tuesday, August 1, 2023 11:35 AM
To: Fion Lam
Cc: Fatima Akhundova; prdfsnotifications; Robin Yu; Nandhini Kasi
Subject: [External] RE: RE: Confirmation of Engineering Assignment WO - 14024422 TSSA:0000338024750

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Were you expecting this email? TAKE A CLOSER LOOK. Is the sender legitimate?
DO NOT click links or open attachments unless you are 100% sure that the email is safe.

Hi Fion,

Your responses look good from TSSA's point of view.

Once the project commences, could you please notify me in order to coordinate the TSSA audit of the project based on the responses?

Please let me know if you have any questions.

Thanks,



Ramona Santiago | Engineer, Fuels

Fuels
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1 416-734-3456 | Cell: +1 416 518-2875 | E-Mail: rsantiago@tssa.org
www.tssa.org



Winner of 2023 5-Star Safety Cultures Award

From: Fion Lam <fion.lam@enbridge.com>
Sent: Thursday, July 20, 2023 3:24 PM
To: Ramona Santiago <rsantiago@tssa.org>
Cc: Fatima Akhundova <fatima.akhundova@enbridge.com>; prdfsnotifications <prdfsnotifications@tssa.org>; Robin Yu <ryu@tssa.org>; Nandhini Kasi <Nandhini.Kasi@enbridge.com>
Subject: RE: RE: Confirmation of Engineering Assignment WO - 14024422 TSSA:0000338024750

Hi Ramona,

Apologies on the delayed response.

Please see attached PDF containing responses to your follow-up questions, along with supporting documents to reference where applicable.

Thank you,

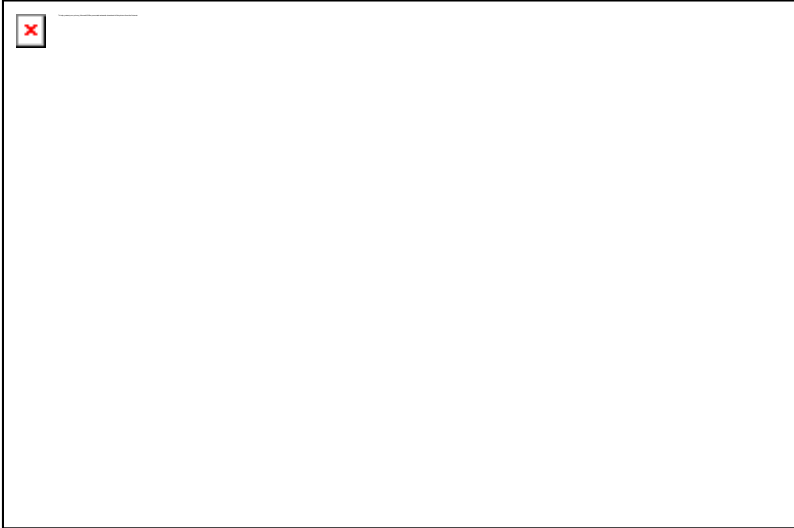
Fion Lam

Engineer-in-Training (EIT) II
Community Expansion

ENBRIDGE

TEL: 416-495-5524 | CELL: 437-245-1468
500 Consumers Road, North York, ON, M2J 1P8

enbridgegas.com | Safety. Integrity. Respect. Inclusion



From: Ramona Santiago <rsantiago@tssa.org>
Sent: Thursday, July 6, 2023 3:17 PM
To: Fion Lam <fion.lam@enbridge.com>
Cc: Fatima Akhundova <fatima.akhundova@enbridge.com>; prdfsnotifications <prdfsnotifications@tssa.org>; Robin Yu <ryu@tssa.org>; Nandhini Kasi <Nandhini.Kasi@enbridge.com>
Subject: [External] RE: RE: Confirmation of Engineering Assignment WO - 14024422 TSSA:0000338024750

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Hi Fion,

No rush on providing the answers! End of this week or even next week works as well.

Thanks,
Ramona

From: Fion Lam <fion.lam@enbridge.com>
Sent: Thursday, July 6, 2023 3:03 PM
To: Ramona Santiago <rsantiago@tssa.org>
Cc: Fatima Akhundova <fatima.akhundova@enbridge.com>; prdfsnotifications <prdfsnotifications@tssa.org>; Robin Yu

<ryu@tssa.org>; Nandhini Kasi <Nandhini.Kasi@enbridge.com>

Subject: RE: RE: Confirmation of Engineering Assignment WO - 14024422 TSSA:0000338024750

Hi Ramona,

When do you need this back by? I will work on gathering the information and try to have it back to you by end of this week – let me know if you need it sooner.

Thanks!

Fion

From: Ramona Santiago <rsantiago@tssa.org>

Sent: Thursday, July 6, 2023 2:32 PM

To: Fion Lam <fion.lam@enbridge.com>

Cc: Fatima Akhundova <fatima.akhundova@enbridge.com>; prdfsnotifications <prdfsnotifications@tssa.org>; Robin Yu <ryu@tssa.org>; Nandhini Kasi <Nandhini.Kasi@enbridge.com>

Subject: [External] RE: RE: Confirmation of Engineering Assignment WO - 14024422 TSSA:0000338024750

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Hi Fion,

Thanks for providing the responses. Could you please respond to the following:

1. Please confirm that this project will be designed, constructed, inspected, and maintained, in accordance with CSA Z662-19 (Oil and Gas Pipeline Systems).
2. Please confirm that this project will be designed, constructed, inspected, and maintained, in accordance with Enbridge's construction and maintenance procedures.
3. Please provide the design and piping specifications related to this project.
4. What is the length of the proposed pipeline installation?
5. What is the pipe material and its standards?
6. What are the pipe wall thicknesses?
7. What is the maximum operating pressure of the pipeline systems related to this project?
8. When is the approximate date for the completion of this project and natural gas delivery to the customers?
9. Appliance inspection and suitability of the appliances for natural gas delivery is very important. When will the appliance inspection report will be available to confirm that it has been inspected that the appliances are suitable for natural gas use?
10. Will excess flow valve(s) be installed for the new customers as part of this project?
11. Please provide the construction schedule of this project. As part of audit of this project, TSSA might select to witness pressure test of some lines.

12. Could you please confirm that all pressure carrying components are rated for the design and test pressure that they are exposed to?
13. Could you please confirm that all components that come into contact with the service fluid are compatible with the service fluid?
14. Could you please confirm that all environmental permits and approvals will be obtained for this project?

Please let me know if you have any questions!

Thank you,



Ramona Santiago | Engineer, Fuels

Fuels

345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1 416-734-3456 | Cell: +1 416 518-2875 | E-Mail: rsantiago@tssa.org

www.tssa.org



Winner of 2023 5-Star Safety Cultures Award

From: Fion Lam <fion.lam@enbridge.com>

Sent: Thursday, June 22, 2023 11:37 AM

To: Ramona Santiago <rsantiago@tssa.org>

Cc: Fatima Akhundova <fatima.akhundova@enbridge.com>; prdfsnotifications <prdfsnotifications@tssa.org>; Robin Yu <ryu@tssa.org>; Nandhini Kasi <Nandhini.Kasi@enbridge.com>

Subject: RE: RE: Confirmation of Engineering Assignment WO - 14024422 TSSA:0000338024750

[CAUTION]: This email originated outside the organisation.

Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Hi Ramona,

Please see attached word document with the info in response to your follow-up questions below.

Thank you,

Fion Lam

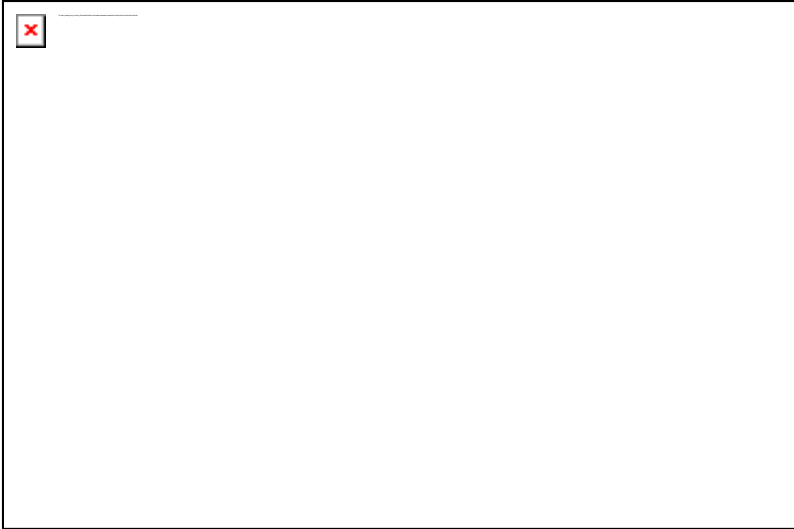
Engineer-in-Training (EIT) II
Community Expansion

ENBRIDGE

TEL: 416-495-5524 | CELL: 437-245-1468

500 Consumers Road, North York, ON, M2J 1P8

enbridgegas.com | Safety. Integrity. Respect. Inclusion



From: Fion Lam

Sent: Wednesday, June 21, 2023 1:15 PM

To: Ramona Santiago <rsantiago@tssa.org>; Nandhini Kasi <Nandhini.Kasi@enbridge.com>

Cc: Fatima Akhundova <fatima.akhundova@enbridge.com>; prdfsnotifications <prdfsnotifications@tssa.org>; Robin Yu <ryu@tssa.org>

Subject: RE: RE: Confirmation of Engineering Assignment WO - 14024422 TSSA:0000338024750

Hi Ramona!

Great to hear from you at your new role and looking forward to working together!

I am working on gathering all the info to answer your questions below and will hopefully be able to get back to you by tomorrow.

Thanks!

Fion

From: Ramona Santiago <rsantiago@tssa.org>

Sent: Wednesday, June 21, 2023 12:03 PM

To: Nandhini Kasi <Nandhini.Kasi@enbridge.com>

Cc: Fatima Akhundova <fatima.akhundova@enbridge.com>; Fion Lam <fion.lam@enbridge.com>; prdfsnotifications <prdfsnotifications@tssa.org>; Robin Yu <ryu@tssa.org>

Subject: [External] RE: RE: Confirmation of Engineering Assignment WO - 14024422 TSSA:0000338024750

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Hi Nandhini,

Thank you for submitting your application. Could you please respond to the questions below?

1. Please describe the scope of this project. Please indicate what is in scope and what is out of scope. Please show this in a diagram if applicable.
2. Does this project have an OEB file number? If so, please provide OEB file number, or the link in OEB website, for this project.
3. What is the purpose of this project? Why is the project being undertaken?
4. Please provide the link to the environmental study report, if available.
5. What fuel will the proposed pipelines carry?
6. How many customers will be covered under this project for natural gas delivery?
7. What fuel are the affected customers using right now, propane, natural gas, or other fuel?
8. Please provide a High Consequence Area study, if applicable for this application

Please let me know if you have any questions or concerns.

Thank you,



Ramona Santiago | Engineer, Fuels

Fuels

345 Carlingview Drive

Toronto, Ontario M9W 6N9

Tel: +1 416-734-3456 | Cell: +1 416 518-2875 | E-Mail: rsantiago@tssa.org

www.tssa.org



Winner of 2023 5-Star Safety Cultures Award

From: prdfsnotifications <prdfsnotifications@tssa.org>

Sent: Thursday, June 15, 2023 9:47 AM

To: Fion Lam <fion.lam@enbridge.com>; Nandhini Kasi <Nandhini.Kasi@enbridge.com>; Fatima Akhundova <fatima.akhundova@enbridge.com>; Robin Yu <ryu@tssa.org>

Subject: [External] Confirmation of Engineering Assignment WO - 14024422 TSSA:0000338024750

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DO NOT click links or open attachments unless you are 100% sure that the email is safe.

Good morning/afternoon:

We have processed your application and your work order has been assigned to a Fuels Safety Engineer for review.

Please see the attached letter for the assigned engineer's contact information.

Regards,

Technical Standards and Safety Authority

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Sandford | TSSA Application Follow-up

1. Please describe the scope of this project. Please indicate what is in scope and what is out of scope. Please show this in a diagram if applicable.



Proposed route is shown in purple – additional details below

Pipeline	Length (m)	Diameter (NPS)	Tie in Locations
IP	4,924	2, PE	1012 m of NPS 2 PE from the intersection of 6th Concession Rd and Ball Rd (-79.152384,44.121374) to the Intersection of Ball Rd and Centre Rd (-79.140561,44.124004) 288 m of NPS 2 PE from (-79.155326,44.128079) to (-79.152024,44.128866) along the Davis Dr. 3624 m of NPS 2 PE starting from the coordinates (-79.211095,44.135211) and going through the Sandford community
IP	8,358	4, PE	8358 m of NPS 4 PE main from the intersection of 6th Concession Rd and Bolton Dr (-79.146832, 44.108946) all the way to the intersection of Sandford and 4th Concession Rd (-79.211042,44.135347)

2. Does this project have an OEB file number? If so, please provide OEB file number, or the link in OEB website, for this project.
We have not yet filed LTC with the OEB. We can provide the OEB File number in a few months once we have reached this stage.

3. What is the purpose of this project? Why is the project being undertaken?
Purpose of this project is to Install NG distribution pipelines and upgrade existing district station to serve the Community of Sandford. Majority of this new pipe to be located within the existing municipal Right-of-Way

4. Please provide the link to the environmental study report, if available.
ER has been submitted with OPCC for circulation at this time.

Here is the encrypted link to the redacted secure ER: <https://smc.golder.com/download?id=1OeuGHsMqR>
Password is: SandfordER2023!

5. What fuel will the proposed pipelines carry?
The pipelines will be carrying natural gas.

6. How many customers will be covered under this project for natural gas delivery?
Market Research showed 87% attachment rate for this project.
Customer Attachment 10-year forecast:
Residential: 173
Commercial & Institutional: 9
Industrial: 1

7. What fuel are the affected customers using right now, propane, natural gas, or other fuel?
Affected customers are currently using propane, oil, or wood.

8. Please provide a High Consequence Area study, if applicable for this application.
N/A

Sandford Community Expansion

TSSA Correspondance | Follow-up Round 2

July 20, 2023



Sandford | TSSA Correspondence

Follow-up Round 2

1. Please confirm that this project will be designed, constructed, inspected, and maintained, in accordance with CSA Z662-19 (Oil and Gas Pipeline Systems).
[Confirm](#)

2. Please confirm that this project will be designed, constructed, inspected, and maintained, in accordance with Enbridge's construction and maintenance procedures.
[Confirm](#)

3. Please provide the design and piping specifications related to this project.
[Please refer to Pipeline specification attachment.](#)

4. What is the length of the proposed pipeline installation?
[Please refer to Pipeline specification attachment.](#)

5. What is the pipe material and its standards?
[Please refer to Pipeline specification attachment.](#)

6. What are the pipe wall thicknesses?
[Please refer to Pipeline specification attachment.](#)

7. What is the maximum operating pressure of the pipeline systems related to this project?
[Please refer to Pipeline specification attachment.](#)

8. When is the approximate date for the completion of this project and natural gas delivery to the customers?
[Project anticipates an in-service date starting January 2025.](#)

9. Appliance inspection and suitability of the appliances for natural gas delivery is very important. When will the appliance inspection report will be available to confirm that it has been inspected that the appliances are suitable for natural gas use?
[Enbridge will provide a list of all meters that have been set, as part of the Project, up to a few months after in-service date \(date will be established once construction schedule is determined, based on LTC approval from OEB\).](#)
[From the list provided, you \(TSSA\) will request records of appliance inspection for select addresses.](#)
[Enbridge is also requested to provide picture of meter location and protection \(if meter protection was required\).](#)

10. Will excess flow valve(s) be installed for the new customers as part of this project?
[Yes, EFV\(s\) will be installed for all residential customers.](#)



11. Please provide the construction schedule of this project. As part of audit of this project, TSSA might select to witness pressure test of some lines.

[Please refer to Construction Schedule attachment.](#)

12. Could you please confirm that all pressure carrying components are rated for the design and test pressure that they are exposed to?

[Confirm](#)

13. Could you please confirm that all components that come into contact with the service fluid are compatible with the service fluid?

[Confirm](#)

14. Could you please confirm that all environmental permits and approvals will be obtained for this project?

[Confirm](#)



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www.tssa.org

Fion Lam
Enbridge Gas Inc.
PO Box 650, Scarborough,
ON, M1K 5E3

Nov 09, 2023

Re: Sanford Community Expansion Project - TSSA file WO# 14024422

The applicable regulation that applies to this Project is [Ontario Regulation 210/01: Oil and Gas Pipeline Systems](#). The applicable standard for this project is CSA Z662-19 which TSSA adopted under [Oil and Gas Code Adoption Document](#) (CAD). The mentioned Code Adoption Documents (CAD) specifies the standards that are adopted by TSSA and any changes or addition to the requirements of CSA Z662-19.

TSSA audits all utility companies that are licensed to distribute “gas” in the province of Ontario. TSSA also reviews and audits all new pipeline projects that are submitted to OEB for leave to construct. The review of the new pipeline projects submitted to OEB consist of reviewing the technical aspect of the project and focused on compliance to the adopted standards and O.Reg.210/01. TSSA has authority to issue orders to the operator for any non-compliances to the regulation and/or adopted standards.

This project so far has been reviewed on the technical aspects of the project including design, material specification, wall thickness calculation and stress on the pipe wall thickness on the maximum operating pressure, pressure and temperature ratings of piping, and appliance inspection for the new customers before delivering gas. TSSA did not find any non-compliances to the regulation or the adopted standard.

TSSA may audit and inspect the EGI to ensure compliance with applicable technical and safety standards for construction and operation of this project.

Should you have any questions, please contact me at (416) 734-3456 or by e-mail at rsantiago@tssa.org. When contacting TSSA regarding this file, please refer to the Work Order number provided above.

Yours truly,

A handwritten signature in black ink, appearing to read "Ramona Santiago".

Ramona Santiago
Fuels Safety Engineer
Tel.: (416) 734-3456
Cell: (416) 518-2875

ENBRIDGE GAS INC.

Answer to Interrogatory from
Ontario Energy Board Staff (STAFF)

Interrogatory

Reference:

Exhibit F, Tab 1, Schedule 1, Attachment 2

Preamble:

A Cultural Heritage Checklist was completed that recommended a “Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment” (Existing Conditions Report) be completed for the Sandford Project. A report is anticipated to be completed prior to the commencement of construction.

A Stage 1 Archaeological Assessment (AA) was completed in May 2023 and was submitted via an expedited review request in June 2023. Depending on specific pipeline alignments along the preferred route, Stage 2 and Stage 3 AAs may be required. Any mitigation or recommendations for construction from the Stage 2 and 3 AAs will be outlined in the EPP for the Project.

Question(s):

- a) Please provide an update on the Existing Conditions Report.
- b) Please provide an update on the need for Stage 2 and 3 AAs.

Response:

- a) The Existing Conditions Report is anticipated to be completed in Q1 2024.
- b) Currently, construction activities are anticipated to be confined to the municipal road right-of-way. Based on the results of the Stage 1 AA, areas that retain archaeological potential are adjacent to the Sandford Community and Quaker Hill cemeteries. Currently, construction activities are planned to be greater than 10m from the limits of both cemeteries, therefore, completion of Stage 2 and 3 Archaeological Assessments are not anticipated.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Ontario Energy Board Staff (STAFF)

Interrogatory

Reference:

Exhibit F, Tab 1, Schedule 1, Attachment 2

Preamble:

The referenced attachment provides an Ontario Pipeline Coordinating Committee (OPCC) Environmental Report Consultation Log.

Question(s):

- a) Please provide any updates to the OPCC Consultation Log since the time that the application was filed.

Response:

- a) Enbridge Gas notes that no further correspondence has been received from OPCC member agencies since the time that the application was filed (August 16, 2023).

ENBRIDGE GAS INC.

Answer to Interrogatory from
Ontario Energy Board Staff (STAFF)

Interrogatory

Reference:

Exhibit H, Tab 1, Schedule 1, Pages 1-4

Preamble:

Enbridge Gas received a Delegation Letter from the Ministry of Energy (MOE) on February 10, 2023, which indicated that the MOE had delegated the procedural aspects of consultation to Enbridge Gas for the Project. The Delegation Letter identified nine Indigenous communities to be consulted.

Enbridge Gas filed the Indigenous Consultation Report for the Project with the MOE on the same date it filed the application with the OEB (i.e., August 16, 2023). The Indigenous Consultation Report reflects Enbridge Gas's Indigenous engagement activities for the Project up to and including July 19, 2023; however, Enbridge Gas says it will continue to engage throughout the life of the Project.

Enbridge Gas said that it would file with the OEB the MOE's opinion letter regarding the sufficiency of Indigenous consultation on the Project, as soon as it is received.

Question(s):

- a) Has Enbridge Gas received the MOE's opinion letter? If so, please file a copy. If not, when does Enbridge Gas anticipate receiving the letter?
- b) Please provide any other updates regarding Indigenous consultation since the time that the application was filed.

Response:

- a) Enbridge Gas has not received the MOE's opinion letter. On November 2, 2023, the MOE advised Enbridge Gas that they anticipate providing Enbridge Gas with the opinion letter in mid-February 2024.
- b) Please see Attachment 1 for an update on Indigenous consultation since the application was filed.

Comments on the Environmental Report (ER) were only received from Mississaugas of Scugog Island First Nation (MSIFN). Please see Attachment 2 to this Exhibit for MSIFN's comments on the ER including Enbridge Gas's responses to these comments.

Enbridge Gas Inc. Indigenous Consultation Log for the Sandford Community Expansion project (Project)
Log updated July 14, 2023 – November 6, 2023

Alderville First Nation (AFN)					
Line Item	Date	Method	Summary of Enbridge Gas Inc. ("Enbridge Gas") Consultation Activity	Summary of Community Consultation Activity	Issues or Concerns Raised and Enbridge Gas Responses
1.4	July 14, 2023	Email	An Enbridge Gas representative emailed AFN representatives to confirm if they could view the environment report (ER) link sent June 5, 2023.		
1.5	November 3, 2023	Email	An Enbridge Gas representative emailed an AFN representative to follow up on the ER review and comments.		
Beausoleil First Nation (Christian Island) (BFN)					
Line Item	Date	Method	Summary of Enbridge Gas Inc. ("Enbridge Gas") Consultation Activity	Summary of Community Consultation Activity	Issues or Concerns Raised and Enbridge Gas Responses
2.4	July 14, 2023	Email	An Enbridge Gas representative emailed BFN representatives to confirm if they could view the ER link sent June 5, 2023.		
2.5	November 3, 2023	Email	An Enbridge Gas representative emailed a BFN representative to ensure BFN had the opportunity to review the ER report. The Enbridge Gas representative advised that comments were always welcome and if there were any concerns with needing a new link to the ER, Enbridge Gas could provide.		
Chippewas of Georgina Island First Nation (CGIFN)					
Line Item	Date	Method	Summary of Enbridge Gas Inc. ("Enbridge Gas") Consultation Activity	Summary of Community Consultation Activity	Issues or Concerns Raised and Enbridge Gas Responses
3.10	July 14, 2023	Email	An Enbridge Gas representative emailed CGIFN representatives to confirm if they could view the ER link sent June 5, 2023.		
3.11	July 14, 2023	Email		A CGIFN representative emailed Enbridge Gas representative saying the link is not working.	
3.12	July 14, 2023	Email	An Enbridge Gas representative emailed a CGIFN representative advising that a Golder representative sent the report. An Enbridge Gas representative asked the CGIFN representative to let them know if they have trouble accessing it.		
3.13	July 17, 2023	Email		A CGIFN representative emailed an Enbridge Gas representative confirming they have the report.	
3.14	November 3, 2023	Email	An Enbridge Gas representative emailed a CGIFN representative to ensure they had the opportunity to review the ER report. The Enbridge Gas representative advised that comments were always welcome and		

			if there were any concerns with needing a new link to the ER, Enbridge Gas could provide.		
Chippewas of Rama First Nation (CRFN)					
Line Item	Date	Method	Summary of Enbridge Gas Inc. ("Enbridge Gas") Consultation Activity	Summary of Community Consultation Activity	Issues or Concerns Raised and Enbridge Gas Responses
4.13	July 14, 2023	Email	An Enbridge Gas representative emailed CRFN representatives to confirm if they could view the ER link sent June 5, 2023.		
4.14	July 31, 2023	Email	An Enbridge Gas representative emailed a CRFN representative asking if they could provide clear mapping/ marked aerial photos of the water body the CRFN representative referenced on March 24, 2023, to allow Enbridge Gas representatives to understand the specific location that was being referred to with respect to wetlands.		
4.15	August 8, 2023	Email		A CRFN representative emailed an Enbridge Gas representative and advised they must have been mistaken with their March 24 comment as the Project does not come near wetlands.	CRFN confirmed that the Project does not come near wetlands.
4.16	November 3, 2023	Email	An Enbridge Gas representative emailed a CRFN representative to ensure they had the opportunity to review the ER report. The Enbridge Gas representative advised that comments were always welcome and if there were any concerns with needing a new link to the ER, Enbridge Gas could provide.		
Curve Lake First Nation (CLFN)					
Line Item	Date	Method	Summary of Enbridge Gas Inc. ("Enbridge Gas") Consultation Activity	Summary of Community Consultation Activity	Issues or Concerns Raised and Enbridge Gas Responses
5.4	July 14, 2023	Email	An Enbridge Gas representative emailed CLFN representatives to confirm if they could view the ER link sent June 5, 2023.		
5.5	July 17, 2023	Email		A CLFN representative emailed an Enbridge Gas representative asking if they could have until mid-August 2023 to review the report.	
5.6	July 18, 2023	Email	An Enbridge Gas representative emailed a CLFN representative to confirm they could have until mid-August review the report.		
5.7	September 11, 2023	Email	An Enbridge Gas representative emailed a CLFN representative to ask if they had time to review the ER and if there were any comments.		
5.8	September 11, 2023	Email		A CLFN representative emailed an Enbridge Gas representative confirming they are still	

				working on the comments and hope to have them done by the end of September/ October 2023.	
5.9	September 11, 2023	Email	An Enbridge Gas representative emailed the HFN representative to advise that the end of September/early October 2023 was satisfactory.		
5.10	November 3, 2023	Email	An Enbridge Gas representative emailed a CLFN representative to follow up on the ER review and to ask if CLFN would be providing comments.		
Hiawatha First Nation (HFN)					
Line Item	Date	Method	Summary of Enbridge Gas Inc. ("Enbridge Gas") Consultation Activity	Summary of Community Consultation Activity	Issues or Concerns Raised and Enbridge Gas Responses
6.4	July 14, 2023	Email	An Enbridge Gas representative emailed HFN representatives to confirm if they could view the ER link sent June 5, 2023.		
6.5	July 17, 2023	Email		A HFN representative emailed an Enbridge Gas representative asking if they can have until mid-August 2023 to review the ER.	
6.6	July 18, 2023	Email	An Enbridge Gas representative emailed a HFN representative to confirm they could have until mid-August review the report.		
6.7	July 25, 2023	Meeting	Enbridge Gas representatives met with CLFN and HFN representatives for their monthly meeting. An update was provided on the Project.		
6.8	September 11, 2023	Email	An Enbridge Gas representative emailed a HFN representative to ask if they had time to review the ER and if there were any comments.		
6.9	September 11, 2023	Email		A HFN representative emailed an Enbridge Gas representative confirming they are still working on the comments and hope to have them done by the end of September/ early October 2023.	
6.10	September 11, 2023	Email	An Enbridge Gas representative emailed the HFN representative to advise that the end of September/early October 2023 was satisfactory.		
6.11	November 3, 2023	Email	An Enbridge Gas representative emailed a HFN representative to ensure they had the opportunity to review the ER report. The Enbridge Gas representative advised that comments were always welcome and if there were any concerns with needing a new link to the ER, Enbridge Gas could provide.		
Huron-Wendat Nation (HWN)					

Line Item	Date	Method	Summary of Enbridge Gas Inc. ("Enbridge Gas") Consultation Activity	Summary of Community Consultation Activity	Issues or Concerns Raised and Enbridge Gas Responses
7.4	July 14, 2023	Email	An Enbridge Gas representative emailed HWN representatives to confirm if they could view the ER link sent June 5, 2023.		
7.5	November 3, 2023	Email	An Enbridge Gas representative emailed a HWN representative to ensure they had the opportunity to review the ER report. The Enbridge Gas representative advised that comments were always welcome and if there were any concerns with needing a new link to the ER, Enbridge Gas could provide.		
7.6	November 3, 2023	Email		A HWN representative emailed an Enbridge Gas representative and said the link to the ER did not work.	
7.7	November 6, 2023	Email	An Enbridge Gas representative emailed a HWN representative the link to information on the Project including the ER.		
Kawartha Nishnawbe First Nation (KNFN)					
Line Item	Date	Method	Summary of Enbridge Gas Inc. ("Enbridge Gas") Consultation Activity	Summary of Community Consultation Activity	Issues or Concerns Raised and Enbridge Gas Responses
8.31	July 14, 2023	Email	An Enbridge Gas representative emailed KNFN representatives to confirm if they could view the ER link sent June 5, 2023.		
8.32	November 3, 2023	Email	An Enbridge Gas representative emailed a KNFN representative to ensure they had the opportunity to review the ER report. The Enbridge Gas representative advised that comments were always welcome and if there were any concerns with needing a new link to the ER, Enbridge Gas could provide.		
Mississaugas of Scugog Island First Nation (MSIFN)					
Line Item	Date	Method	Summary of Enbridge Gas Inc. ("Enbridge Gas") Consultation Activity	Summary of Community Consultation Activity	Issues or Concerns Raised and Enbridge Gas Responses
9.13	July 13, 2023	Email	An Enbridge Gas representative emailed MSIFN representatives to confirm if they could view the ER link sent June 5, 2023.		
9.14	July 13, 2023	Email		An MSIFN representative emailed an Enbridge Gas representative saying they are almost done reviewing the ER and are working on their comments. The MSIFN representative asked the Enbridge Gas representative if they can get the comments to Enbridge Gas representative by the end of the week in the event they are not done today.	

9.15	July 13, 2023	Email	An Enbridge Gas representative emailed an MSIFN representative confirming that the comments can be in at the end of the week.		
9.15	July 14, 2023	Email		An MSIFN representative emailed an Enbridge Gas representative their comments on the ER.	MSIFN had comments related to source water protection, surface water, wetlands, and fish and fish habitat, vegetation, wildlife and wildlife habitat, species at risk and species at risk habitat, environmentally sensitive and protected areas, cumulative effects assessment and monitoring and contingency plans. Details of MSIFN's comments on the ER including Enbridge Gas's responses to these comments can be found in Attachment 2 of this Exhibit.
9.17	October 30, 2023	Email	An Enbridge Gas representative emailed MSIFN representatives Enbridge Gas's responses to MSIFN comments on the ER.		Enbridge Gas provided responses to the MSIFN comments on the ER. These can be found in Attachment 2 of this Exhibit.



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www.scugogfirstnation.com

To the attention of:

Melanie Green
Senior Advisor, Community & Indigenous Engagement, Eastern Region
Enbridge Inc.
melanie.green@enbridge.com

July 14th, 2023

Re: Sandford Community Expansion Project - Environmental Report

Dear Melanie Green,

The Mississaugas of Scugog Island First Nation is pleased to provide comments on the Environmental Report for Enbridge's Sandford Community Expansion Project. The Environmental Report discusses topics of source water protection, wetlands and waterbodies, fish and fish habitat, wildlife and wildlife habitat, species at risk, and cumulative effects, all of which have the potential to affect our Nation's Treaty Rights. MSIFN appreciates the thorough reporting on the above-mentioned topics. We have provided outstanding concerns, comments, and questions in the table below.



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Table 1. Comments on the Sandford Community Expansion Project Environmental Report

Reference	Text from ER	Comment
Section 2.2.3 Source water protection	<p><i>“Areas where the interpreted water table is less than 5 m below ground surface mainly occur in low lying areas near creek valleys and wetlands. Larger areas of potentially shallow groundwater also occur along the northern to northeast portion of the PPR, as well as the southern to southwest portion of the AR”</i></p>	<ul style="list-style-type: none"> - In the report it is stated that the typical pipeline depth is between 0.9 m and 1.2 m deep, with watercourse crossing depths of approximately 2.5 m for coldwater watercourses. How will Enbridge ensure that groundwater is protected in areas where the water table falls below these depths, or where the pipeline is within close proximity to a significant groundwater recharge area or highly vulnerable aquifer? - Drilling has the potential to impact groundwater with leaking hydraulic fluid during pipeline construction or other accidents. The pipeline will also have the potential to leak natural gas if proper maintenance is not kept up with following construction. - Request: Please provide information on measures that Enbridge will take to ensure pipeline integrity long-term. - Request: Has Enbridge consulted the Lake Simcoe Conservation Authority? Can you demonstrate conformity with the SLCA Source Water Protection Plan? The proposed line is located within the groundwater policy area.
	<p><i>“An SGRA overlaps with both of the study areas along Concession Road 6 between Ball Road and Bolton Drive.”</i></p>	
	<p><i>“Study areas for both routes encounter a small area designated as HVA along Ball Road near the wetland and watercourse just north of the road.”</i></p>	



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		<p>Printed On: 7/14/2023</p> <p>WGS 1984 Web_Merc Auxiliary Spher Mapped By:</p> <p><small>This product was produced for the South Georgian Bay Source Protection Region. Base data have been from various sources, under data sharing agreements. No effort has been made to accurately avoid the inherent data/mapping errors may exist. This map has been produced for illustrative purposes from an interactive web mapping site. GIS Services DRAFT printed 2023. © South Georgian Bay Source Protection Region, 2023. All Rights Reserved following data sets of Assessment Parcel, Roads, Upper Tier Municipality and © King Printer for Ontario, Revised Permission, 2023. Orthophotography 2002, 2005, 2007, 2011-2022. © First Base Solutions Inc.</small></p>
<p>Section 2.2.4 Surface water, wetlands, and</p>	<p><i>“Eight watercourse and five waterbody crossing locations were identified within the PPR study area during site reconnaissance and are described below.</i></p>	<p>- Horizontal directional drilling (HDD) presents a risk of drilling fluid release into waterways, wetlands, and waterbodies. To protect Fish and Fish Habitat, more detailed mitigation</p>



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<p>fish and fish habitat</p>	<p><i>Of the 13 total crossing locations within the PPR study area, two crossings (i.e., LC-01-WC and LCT-07-WC) appear to be intersected by the proposed HDD centerline.”</i></p>	<p>planning is needed. Given the sensitivity of aquatic features in the Sandford/Uxbridge area and the importance of these features to First Nations, this is of particular interest. More detailed mitigation should outline the specific timing of HDD in relation to fish life cycle events, following both DFO guidance and Indigenous knowledge from Williams Treaties First Nations (WTFNs).</p>
	<p><i>“Western branch of Leaskdale Creek at LCT-01-WC is a permanent watercourse covered by dense wetland vegetation including cattail (Typha sp.) and common reed (Phragmites australis) in a small valley within the right-of-way (ROW).”</i></p>	<ul style="list-style-type: none"> - European common reed (Phragmites australis) is found within the right-of-way of the PPR, but the report does not comment on the fact that this is an invasive species in Ontario. Invasive phragmites have already spread across much of MSIFN’s territory due to the plant’s ability to outcompete native species. - Does Enbridge have an invasive species management plan? The report mentions cleaning equipment and dealing with invasive species on an as-needed basis. Phragmites australis is already prevalent in the area and only increasing with improper management practices. It is possible that cleared pipeline corridors can act as conduits for invasive plant movement. Enbridge should consider the potential corridor effects of this linear infrastructure and propose mitigation measures.



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<p>Section 2.2.5 Vegetation</p>	<p><i>“Additionally, there is cultural meadow or cultural savannah present beside a relatively young deciduous sugar maple (Acer saccharum) forest containing some mature sugar maple. There is a small deciduous swamp containing balsam poplar (Populus balsamifera) and American elm (Ulmus americana) east of Concession Road 6. At the easternmost point of the PPR study area, north of Ball Road, there is open water surrounded by deciduous swamp containing silver maple (Acer saccharinum), eastern white cedar (Thuja occidentalis), and Manitoba maple (Acer negundo).”</i></p>	<ul style="list-style-type: none"> - Several species which are mentioned within the study area of the PPR are bioculturally significant to MSIFN and other First Nations. From knowledge of Anishnaabeg medicines, traditional food systems, and cultural activities, the following trees and shrubs were and still are used by Michi Saagiig Anishinaabeg: <ul style="list-style-type: none"> o Sugar maple, <i>Acer saccharum</i> o Balsam poplar, <i>Populus balsamifera</i> o White elm or American elm, <i>Ulmus americana</i> o Silver maple, <i>Acer saccharinum</i> o Eastern white cedar, <i>Thuja occidentalis</i> - Will the Project impact the above species during construction/operation? If so, please outline how Enbridge plans to compensate for the destruction of significant features. MSIFN has Treaty Rights in the area of the Project including the right to harvest, which is continuously impacted as land is taken up and vegetation/habitat removed. If tree removals are required for the project, please inform MSIFN of these plans.
<p>Section 2.2.6</p>	<p><i>“Targeted wildlife surveys in appropriate timing windows have not been completed; however, wildlife observed during the site</i></p>	<ul style="list-style-type: none"> - Request: updated MSIFN when targeted wildlife surveys are completed and ready to be shared, and for WTFNs to receive an invitation to participate in field work if capacity is available.



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Wildlife and wildlife habitat	<i>reconnaissance are reported below for each route.</i>	
Section 2.2.7 Species at risk and species at risk habitat	<i>“Overall, there is moderate or high potential for 22 SAR to occur within the PPR study area and 23 SAR to occur within the AR study area. Table 2 provides a list of SAR species, and which study areas each SAR species has the potential to be present in, if applicable. No special protections are provided to species designated special concern under the ESA. On private or provincially-owned lands, only individuals and residences of aquatic species and migratory birds (as defined by the MBCA) that are listed as endangered, threatened or extirpated are protected under SARA, and critical habitat protection on non-federal lands is afforded only to aquatic species, unless ordered by the Governor in Council.”</i>	<ul style="list-style-type: none"> - The following species at risk are listed in Table 2 which have at least moderate probability of occurrence in the study area and protected status: <ul style="list-style-type: none"> ○ Bank swallow ○ Barn swallow ○ Black ash ○ Bobolink ○ Canada warbler ○ Eastern meadowlark ○ Eastern small-footed myotis ○ Little brown myotis ○ Loggerhead shrike ○ Northern myotis ○ Red-headed woodpecker ○ Tri-coloured bat ○ Western chorus frog - We urge Enbridge to go beyond what is required and provide protections for species designated special concern under the ESA. For example, Midland painted turtle, Rainbow mussel, and Snapping turtle are all species of special concern which



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		<p>would not receive protections but are likely to be found in wetlands along the PPR.</p> <ul style="list-style-type: none"> - Enbridge should also provide critical habitat protection to non-aquatic species, as most of the species listed in Table 2 are non-aquatic but will be heavily impacted by things like vegetation or wetland removals.
<p>Section 2.2.8</p> <p>Environmentally sensitive and protected areas</p>	<p><i>“Both route option study areas overlap the Sandford Wetland Complex, a PSW. No other provincially protected natural features, such as Areas of Natural and Scientific Interest (ANSI), conservation areas, or provincial parks are known to occur in the study areas based on the results of the desktop assessment.”</i></p>	<ul style="list-style-type: none"> - Will pipeline construction require removing any part of the PSW wetland complex? If so, please inform MSIFN what Enbridge will be doing to compensate for the loss of significant natural features and SAR habitat. - Given the potential risks of HDD fluid release to surrounding wetlands, drilling activities should be planned in a manner that respects sensitive life cycle events of wetland-dependent species. There are several at-risk herpetofauna species in the area that rely on wetlands for different life cycle events. - Desktop studies are known to be limiting in nature and should be ground-truthed to ensure data accuracy and to ensure the physical nature of the features has not changed with time. - MSIFN requests that professional ecologists are hired to complete a ground truthing exercise.
<p>Section 7.0</p>	<p><i>“The cumulative effects assessment looks at any effects that may result from the</i></p>	<ul style="list-style-type: none"> - MSIFN appreciates the thorough criteria and reporting in this section. Cumulative effect considerations are very important



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<p>Cumulative effects assessment</p>	<p><i>interaction between the net effects of the proposed Project and the effects of other developments already in place or planned within or near the study area. Cumulative effects are an important part of the EA as defined in the OEB guidelines.”</i></p>	<p>to our First Nation as our Treaty Rights are impacted by all types of land use and development. Cumulative effects are not given enough importance in many Environmental Reports, it is encouraging to see the acknowledgment of their impacts in detail within this ER.</p>
<p>Section 8.0 Monitoring and contingency plans</p>	<p><i>“Enbridge Gas will photograph-document all work areas and areas along the pipeline alignment prior to construction in order to advise on restoration requirements once construction is complete, to return disturbed areas to equivalent to pre-construction conditions or better.”</i></p>	<ul style="list-style-type: none"> - MSIFN would like to be kept informed about the restoration planning and requirements following construction. We ask that disturbed areas are restored to better condition than before. As mentioned, some areas along the PPR have invasive species as the predominant vegetation. - Request: Enbridge commit to restoring disturbed areas with native seed mixes and removing any invasive species within the vicinity of the project. - Enbridge should comment on long-term monitoring of the pipeline integrity at a frequency that ensures no fugitive emissions are leaking into the groundwater/soil/air. Fugitive emissions of methane (CH₄) are common in old pipelines lacking maintenance and are concerning as CH₄ has a high global warming potential. Monitoring plans should include mention of this potential issue.



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In conclusion MSIFN requests the following changes are considered and implemented:

1. Commit to restoring disturbed areas and provide restoration plans for review by MSIFN.
2. Complete a ground truthing exercise of the project area to ensure desktop data is consistent with mapped natural features.
3. Provide protection for species designated under special concern. Educate and train construction crews to identify species of special concern and have a plan to mitigate impacts.
4. Keep MSIFN informed of wildlife species surveys and involve staff in advance so that they may have the opportunity to participate.
5. Outline how Enbridge plans to compensate for the destruction of significant features.
6. Please provide an invasive species management plan.
7. Please provide a detailed mitigation plan that outlines the specific timing of HDD in relation to fish life cycle events, following both DFO guidance and Indigenous knowledge from Williams Treaties First Nations (WTFNs).
8. Please provide information on measures that Enbridge will take to ensure pipeline integrity long-term.
9. Has Enbridge consulted the Lake Simcoe Conservation Authority? Can you demonstrate conformity with the SLCA Source Water Protection Plan?


Miigwech,

Mississaugas of Scugog Island First Nation
Consultation Department

Sandford Community Expansion Project – Enbridge Gas Inc. (Enbridge Gas) Responses to Mississauga’s of Scugog Island First Nation (MSIFN)

Table 1: Enbridge Gas’s Responses to MSIFN Comments on the Sandford Community Expansion Environmental Report				
#	Section	MSIFN Comments	Request / Inquiry	Enbridge responses
1	Section 2.2.3 Source water protection	<p>“Areas where the interpreted water table is less than 5 m below ground surface mainly occur in low lying areas near creek valleys and wetlands. Larger areas of potentially shallow groundwater also occur along the northern to northeast portion of the PPR, as well as the southern to southwest portion of the AR”</p> <p>“An SGRA overlaps with both of the study areas along Concession Road 6 between Ball Road and Bolton Drive.”</p> <p>“Study areas for both routes encounter a small area designated as HVA along Ball Road near the wetland and watercourse just north of the road.”</p> <p>In the report it is stated that the typical pipeline depth is between 0.9 m and 1.2 m deep, with watercourse crossing depths of approximately 2.5 m for cold-water watercourses. How will Enbridge ensure that groundwater is protected in areas where the water table falls below these depths, or where the pipeline is within close proximity to a significant groundwater</p>	<p>How will Enbridge ensure that groundwater is protected in areas where the water table falls below these depths, or where the pipeline is within close proximity to a significant groundwater recharge area or highly vulnerable aquifer?</p>	<p>Response: Enbridge Gas will implement measures that prevent substances from entering groundwater including adhering to a Project-specific spill prevention and response plan, maintaining clean equipment protocols, and ensuring fueling does not take place near open excavations. This includes areas where the pipeline is in close proximity to significant groundwater recharge areas or highly vulnerable aquifers. Additionally, Enbridge Gas will follow industry standard procedures for excavation, construction, and backfilling. These will include measures such as identifying, handling, and disposing of potentially contaminated soils, backfilling excavations as soon as possible, using native soil for backfill material wherever possible and restoring the grading, topsoil, and vegetation of the area to match pre-construction conditions as close as possible.</p>

		<p>recharge area or highly vulnerable aquifer?</p> <p>Drilling has the potential to impact groundwater with leaking hydraulic fluid during pipeline construction or other accidents. The pipeline will also have the potential to leak natural gas if proper maintenance is not kept up with following construction.</p> <p>Request: Please provide information on measures that Enbridge will take to ensure pipeline integrity long-term. – Request: Has Enbridge consulted the Lake Simcoe Conservation Authority? Can you demonstrate conformity with the SLCA Source Water Protection Plan? The proposed line is located within the groundwater policy area.</p>	<p>MSIFN: Drilling has the potential to impact groundwater with leaking hydraulic fluid during pipeline construction or other accidents. The pipeline will also have the potential to leak natural gas if proper maintenance is not kept up with following construction.</p>	<p>Response: Enbridge Gas will implement measures that prevent substances (e.g., petroleum hydraulic fluid) from entering groundwater including adhering to a Project-specific spill prevention and response plan, maintaining clean equipment protocols, and ensuring fueling does not take place near open excavations. A spill response kit will be kept on-site at all times and a response plan will be implemented immediately in the event of a chemical spill. If they occur, spills will be reported to Enbridge Gas’ Environmental Department and the appropriate regulatory authority (MECP Spills Action Centre), as required.</p> <p>Additionally, a mitigation plan (Inadvertant Release of Drilling Fluid Contingency Plan) will be prepared to address the potential for inadvertent release of drilling fluid (i.e., drilling mud). During HDD, a regular monitoring patrol will be established for the watercourse, sensitive environmental areas, and surrounding landscape to detect any inadvertent release of drilling fluids. Pipeline segments where HDD will be utilized are also made of thicker steel, have a protective layer of coating, and a second abrasion-resistant coating to</p>
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			<p>MSIFN: Has Enbridge consulted the Lake Simcoe Conservation Authority? Can you demonstrate conformity with the SLCA Source Water Protection Plan? The proposed line is located within the groundwater policy area.</p>	<p>safeguard the pipeline during the HDD process, and maintain post-construction integrity.</p> <p>Enbridge Gas will ensure proper maintenance of the pipeline through remote and in-person monitoring of the pipeline for corrosion, leaks, or any other potential damage, as well as through the installation of pipelines with coatings and cathodic protection. Enbridge Gas is also part of Ontario One Call's program, therefore, limiting the potential for third-party damages to the pipeline. Enbridge Gas is committed to the health and safety of the public and continually performs routine maintenance and repairs on its entire pipeline system.</p> <p>Response: Enbridge Gas has consulted with the Lake Simcoe Region Conservation Authority (LSRCA) regarding the proposed Project. LSRCA identified that the Project is located in an area regulated by the LSRCA under O. Reg 179/06 pursuant to the <i>Conservation Authorities Act</i>. A permit approval from LRCA may be required where work will be completed within 15 m of a watercourse and/or wetland.</p>
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				<p>Enbridge maintains a minimum 15m buffer around regulated crossings, and 30m around crossings with identified Species at Risk (SAR)</p> <p>The groundwater policies in the South Georgian Bay Lake Simcoe Source Protection Region Source Protection Plan that apply to Wellhead Protection Areas (WHPA) Q1 and Q2 are concerned with risks of taking water from an aquifer without returning it, hence reducing recharge to aquifers. These policies are implemented mostly through municipal land use policies and permitting, and the issuing of Permits to Take Water from the MECP.</p> <p>The southern section of the preferred pipeline route (PPR) is located within a WHPA-Q1 and -Q2 area from Bolton Drive to south of Ball Road. Dewatering is not expected to be required in this area and no significant increases in impervious surfaces that would reduce groundwater recharge are expected to result from the Project.</p> <p>Additionally, LSRCA provided the following mitigation objectives which Enbridge Gas plans to adhere to:</p> <ul style="list-style-type: none"> • <i>Avoid floodplains and wetlands (where practicable/possible);</i>
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				<ul style="list-style-type: none"> • Existing drainage and conveyance be maintained and/or improved to avoid changes to existing flow; • The existing grade will be maintained and fill placement within floodplains will be avoided or compensated for with an incremental cut; • Implement erosion and sediment control measures; • HDD method should be used to cross any watercourses and the pipeline must be installed a minimum of 1.5 m below the bed of the watercourse. • A spill response plan should be prepared prior to the commencement of construction.
#2	Section 2.2.4 Surface water, wetlands, and fish and fish habitat	<p>“Eight watercourse and five waterbody crossing locations were identified within the PPR study area during site reconnaissance and are described below. Of the 13 total crossing locations within the PPR study area, two crossings (i.e., LC-01-WC and LCT-07-WC) appear to be intersected by the proposed HDD centerline.”</p> <p>Horizontal directional drilling (HDD) presents a risk of drilling fluid release into waterways, wetlands, and waterbodies. To protect Fish and Fish Habitat, more detailed mitigation planning is needed. Given the</p>	<p>MSFIN: Horizontal directional drilling (HDD) presents a risk of drilling fluid release into waterways, wetlands, and waterbodies. To protect Fish and Fish Habitat, more detailed mitigation planning is needed. More detailed mitigation should outline the specific timing of HDD in relation to fish life cycle events, following both DFO guidance and Indigenous knowledge from Williams Treaties First Nations (WTFNs).</p>	<p>Response: Enbridge Gas has considered the potential for the risk of inadvertent release of a deleterious substance into the environment. Table 10 (Summary of environmental and socio-economic effects and mitigation measures) of the ER considers the risk of hazardous material spills or leaks due to improper handling, use and/or storage of gasoline, diesel fuel, lubricants, drilling fluid, or other hazardous materials and identifies associated mitigation measures. Enbridge Gas’ response to Comment #1 above provides additional details related to mitigation measures that</p>

		<p>sensitivity of aquatic features in the Sandford/Uxbridge area and the importance of these features to First Nations, this is of particular interest. More detailed mitigation should outline the specific timing of HDD in relation to fish life cycle events, following both DFO guidance and Indigenous knowledge from Williams Treaties First Nations (WTFNs).</p>		<p>will be implemented during HDD work to protect surface water features, wetlands, as well as fish and fish habitat.</p> <p>Measures to protect fish and fish habitat include adhering to the recommended timing windows outlined by DFO (Ontario Restricted Activity Timing Windows for the Protection of Fish and Fish Habitat), as well as ensuring mitigation measures for Project activities in and around water protect fish, their eggs, juveniles, spawning adults and/or the organisms which they feed upon.</p> <p>Construction activities in or near water will take place outside the timing windows were reasonably possible. Unforeseen circumstances may require some work needing to be completed within those windows; however, to avoid completing works either within or near a watercourse (i.e., < 30m), Enbridge Gas installs pipe via HDD in these sections, and typically maintains a minimum depth of 2.5m below the bottom of any regulated creek crossing.</p> <p>In general, Enbridge Gas implements mitigation measures in Table 10 of the</p>
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				<p>ER that comply with the DRO’s recommended measures to protect fish and fish habitat, including maintaining riparian vegetation, maintaining fish passage, and ensuring proper sediment and erosion controls, as well as accidental spill/release measures.</p> <p>Enbridge Gas is open to continuing to dialogue with MSIFN regarding specific mitigation measures, including those related to the protection of fish and fish habitat.</p>
#3		<p>“Western branch of Leaskdale Creek at LCT-01-WC is a permanent watercourse covered by dense wetland vegetation including cattail (Typha sp.) and common reed (Phragmites australis) in a small valley within the right-of-way (ROW).”</p> <p>European common reed (Phragmites australis) is found within the right-of-way of the PPR, but the report does not comment on the fact that this is an invasive species in Ontario. Invasive phragmites have already spread across much of MSIFN’s territory due to the plant’s ability to outcompete native species.</p>	<p>MSIFN: Does Enbridge have an invasive species management plan?</p>	<p>Response: Construction activities are expected to occur entirely within the road right-of-way and no vegetation clearing is expected to occur at watercourse LCT-01-WC; therefore, there is little risk of spreading invasive species, including common reed, at this site. Enbridge Gas completes field level hazard assessment to note whether invasive plants could present a potential hazard and has prescribed construction equipment cleaning protocols that are deployed during field work, which are included as part of the Environmental Protection Plan (EPP).</p>

		<p>- Does Enbridge have an invasive species management plan? The report mentions cleaning equipment and dealing with invasive species on an as-needed basis. <i>Phragmites australis</i> is already prevalent in the area and only increasing with improper management practices. It is possible that cleared pipeline corridors can act as conduits for invasive plant movement. Enbridge should consider the potential corridor effects of this linear infrastructure and propose mitigation measures.</p>		
#4	<p>Section 2.2.5 Vegetation</p>	<p>“Additionally, there is cultural meadow or cultural savannah present beside a relatively young deciduous sugar maple (<i>Acer saccharum</i>) forest containing some mature sugar maple. There is a small deciduous swamp containing balsam poplar (<i>Populus balsamifera</i>) and American elm (<i>Ulmus americana</i>) east of Concession Road 6. At the easternmost point of the PPR study area, north of Ball Road, there is open water surrounded by deciduous swamp containing silver maple (<i>Acer saccharinum</i>), eastern white cedar (<i>Thuja occidentalis</i>), and Manitoba maple (<i>Acer negundo</i>).”</p> <p>Several species which are mentioned within the study area of the PPR are bioculturally significant to MSIFN and</p>	<p>MSIFN: Will the Project impact the noted species during construction/operation? If so, please outline how Enbridge plans to compensate for the destruction of significant features. MSIFN has Treaty Rights in the area of the Project including the right to harvest, which is continuously impacted as land is taken up and vegetation/habitat removed. If tree removals are required for the project, please inform MSIFN of these plans.</p>	<p>Response: Enbridge Gas does not anticipate any tree removal as part of the proposed Project construction activities. Impacts to identified species are not expected during construction of the pipeline, and additionally, no tree removal is anticipated.</p>

		<p>other First Nations. From knowledge of Anishnaabeg medicines, traditional food systems, and cultural activities, the following trees and shrubs were and still are used by Michi Saagiig Anishinaabeg: o Sugar maple, Acer saccharum o Balsam poplar, Populus balsamifera o White elm or American elm, Ulmus americana o Silver maple, Acer saccharinum o Eastern white cedar, Thuja occidentalis</p> <p>- Will the Project impact the above species during construction/operation? If so, please outline how Enbridge plans to compensate for the destruction of significant features. MSIFN has Treaty Rights in the area of the Project including the right to harvest, which is continuously impacted as land is taken up and vegetation/habitat removed. If tree removals are required for the project, please inform MSIFN of these plans.</p>		
#5	Section 2.2.6 Wildlife and wildlife habitat	<p>“Targeted wildlife surveys in appropriate timing windows have not been completed; however, wildlife observed during the site reconnaissance are reported below for each route.</p> <p>Request: updated MSIFN when targeted wildlife surveys are completed and ready to be shared, and</p>	<p>MSIFN: Request to update MSIFN when targeted wildlife surveys are completed and ready to be shared, as well as for WTFNs to receive an invitation to participate in field work if capacity is available.</p>	<p>Response:</p> <p>Targeted SAR survey work is anticipated and will be planned and coordinated by Enbridge Gas’s environmental consultant. Enbridge Gas will provide MSIFN the opportunity to participate in such surveys.</p>

		<p>for WTFNs to receive an invitation to participate in field work if capacity is available.</p>		
#6	<p>Section 2.2.7 Species at risk and species at risk habitat</p>	<p>“Overall, there is moderate or high potential for 22 SAR to occur within the PPR study area and 23 SAR to occur within the AR study area. Table 2 provides a list of SAR species, and which study areas each SAR species has the potential to be present in, if applicable. No special protections are provided to species designated special concern under the ESA. On private or provincially owned lands, only individuals and residences of aquatic species and migratory birds (as defined by the MBCA) that are listed as endangered, threatened, or extirpated are protected under SARA, and critical habitat protection on non-federal lands is afforded only to aquatic species, unless ordered by the Governor in Council.”</p> <p>The following species at risk are listed in Table 2 which have at least moderate probability of occurrence in the study area and protected status: o Bank swallow o Barn swallow o Black ash o Bobolink o Canada warbler o Eastern meadowlark o Eastern small-footed myotis o Little brown myotis o Loggerhead shrike o Northern myotis o</p>	<p>MSFIN: We urge Enbridge to go beyond what is required and provide protections for species designated special concern under the ESA (i.e., Midland painted turtle, Rainbow mussel, and Snapping turtle are Special Concern (SC) which would not receive protection but are likely to be found in wetlands along the PPR). Enbridge should also provide critical habitat protection to non-aquatic species, as most of the species listed in Table 2 are non-aquatic but will be heavily impacted by things like vegetation or wetland removals.</p>	<p>Response: Potential habitat identified for SAR in the study areas is predominantly outside the roadside right-of-way.</p> <p>Although Project activities located within the roadside right-of-way may have the potential to result in indirect impacts to nearby surface water and wetland environments (when unmitigated), Enbridge Gas does not anticipate completing any vegetation removal outside of the roadway right-of-way and plans to avoid interactions with wetlands via the use of HDD (described in Comment #1).</p> <p>Additionally, mitigation measures (outlined in Table 10 of the ER) are intended to be implemented to minimize indirect effects to species classified as special concern and wetlands that may be located near or adjacent to Project construction activities.</p> <p>Mitigation measures to protect fish and fish habitat (described in Comment #2) will be implemented and are intended to simultaneously provide protections to any special</p>

		<p>Red-headed woodpecker o Tri-coloured bat o Western chorus frog.</p> <p>- We urge Enbridge to go beyond what is required and provide protections for species designated special concern under the ESA. For example, Midland painted turtle, Rainbow mussel, and Snapping turtle are all species of special concern which would not receive protection but are likely to be found in wetlands along the PPR.</p> <p>- Enbridge should also provide critical habitat protection to non-aquatic species, as most of the species listed in Table 2 are non-aquatic but will be heavily impacted by things like vegetation or wetland removals.</p>		<p>concern aquatic species that may be present in the study area (i.e., mussels).</p>
#7	<p>Section 2.2.8 Environment ally sensitive and protected areas</p>	<p>“Both route option study areas overlap the Sandford Wetland Complex, a PSW. No other provincially protected natural features, such as Areas of Natural and Scientific Interest (ANSI), conservation areas, or provincial parks are known to occur in the study areas based on the results of the desktop assessment.”</p> <p>Will pipeline construction require removing any part of the PSW wetland complex? If so, please inform MSIFN what Enbridge will be doing to</p>	<p>MSFIN: Will pipeline construction require removing any part of the PSW wetland complex? If so, please inform MSIFN what Enbridge will be doing to compensate for the loss of significant natural features and SAR habitat.</p> <p>MSFIN: Given the potential risks of HDD fluid release to surrounding wetlands, drilling activities should be planned in a manner that respects</p>	<p>Response: Enbridge Gas does not anticipate completing any vegetation removal outside of the roadway right-of-way, nor any removal of the PSW wetland complex. Enbridge Gas plans to avoid interactions with wetlands via the use of HDD (described in Comment #1).</p> <p>Response: Enbridge Gas will implement the mitigation measures outlined above to prevent and respond to the inadvertent release of HDD fluid. Enbridge Gas is open to</p>

		<p>compensate for the loss of significant natural features and SAR habitat.</p> <ul style="list-style-type: none"> - Given the potential risks of HDD fluid release to surrounding wetlands, drilling activities should be planned in a manner that respects sensitive life cycle events of wetland-dependent species. There are several at-risk herpetofauna species in the area that rely on wetlands for different life cycle events. - Desktop studies are known to be limiting in nature and should be ground-truthed to ensure data accuracy and to ensure the physical nature of the features has not changed with time. - MSIFN requests that professional ecologists are hired to complete a ground truthing exercise. 	<p>sensitive life cycle events of wetland-dependent species.</p> <p>MSIFN: MSIFN requests that professional ecologists are hired to complete a ground truthing exercise.</p>	<p>continuing to dialogue with MSIFN regarding specific mitigation measures for wetland dependent species.</p> <p>Response: As part of on-going environmental management planning, Enbridge Gas is engaging a professional environmental consulting firm to conduct a preliminary screening for SAR and species-specific field surveys to confirm the presence and/or absence of special concern / threatened / endangered species to occur within the Project footprint.</p>
#8	<p>Section 7.0 Cumulative effects assessment</p>	<p>“The cumulative effects assessment looks at any effects that may result from the interaction between the net effects of the proposed Project and the effects of other developments already in place or planned within or near the study area. Cumulative effects are an important part of the EA as defined in the OEB guidelines.”</p> <p>MSIFN appreciates the thorough criteria and reporting in this section. Cumulative effect considerations are very important to our First Nation as</p>	<p>MSIFN: MSIFN appreciates the thorough criteria and reporting in this section. Cumulative effect considerations are very important to our First Nation as our Treaty Rights are impacted by all types of land use and development. Cumulative effects are not given enough importance in many Environmental Reports, it is encouraging to see the acknowledgment of their impacts in detail within this ER.</p>	<p>Response: Enbridge Gas thanks the MSFIN for this comment.</p>

		<p>our Treaty Rights are impacted by all types of land use and development. Cumulative effects are not given enough importance in many Environmental Reports, it is encouraging to see the acknowledgment of their impacts in detail within this ER.</p>		
#9	<p>Section 8.0 Monitoring and contingency plans</p>	<p>“Enbridge Gas will photograph-document all work areas and areas along the pipeline alignment prior to construction in order to advise on restoration requirements once construction is complete, to return disturbed areas to equivalent to preconstruction conditions or better.”</p> <p>MSIFN would like to be kept informed about the restoration planning and requirements following construction. We ask that disturbed areas are restored to better condition than before. As mentioned, some areas along the PPR have invasive species as the predominant vegetation.</p> <ul style="list-style-type: none"> - Request: Enbridge commit to restoring disturbed areas with native seed mixes and removing any invasive species within the vicinity of the project. - Enbridge should comment on long-term monitoring of the pipeline integrity at a frequency that ensures no fugitive emissions are leaking into 	<p>MSIFN: MSIFN would like to be kept informed about the restoration planning/requirements following construction. Request that Enbridge Gas commit to restoring disturbed areas with native seed mixes and removing any invasive species within the vicinity of the project.</p>	<p>Response: Following excavation, Enbridge Gas intends to restore the construction area to pre-construction conditions or better. All construction materials and excess soil will be removed, and final grading will be put in place. Anything disturbed by construction activities (i.e., fencing, pavement), will be replaced, to like conditions. Ground cover will be replaced by sodding or seeding where necessary, based on land use, permitting, and/or landowner requirements. In the absence of landowner and/or municipality preferences – existing site-specific conditions, such as climate, soil types, and terrain will be considered when selecting seeding mixtures that have proven records of success.</p> <p>Re-vegetation of any disturbed areas will occur as soon as practicable by planting and seeding with native species (i.e., trees, shrubs, grasses) and covering areas with mulch to prevent</p>

		<p>the groundwater/soil/air. Fugitive emissions of methane (CH4) are common in old pipelines lacking maintenance and are concerning as CH4 has a high global warming potential. Monitoring plans should include mention of this potential issue.</p>		<p>soil erosion and help seeds germinate. Species included in the seed mixture will be intended to allow encroachment of native plants and be fast-growing/self-sustaining. If insufficient time in the growing season remains before revegetation can take place – the site will be stabilized with erosion and sediment control measures and revegetated the following spring. Additionally, Enbridge Gas will consult with the LSRCA on what seed mixes should be used if reseeded is required in LSRCA-regulated areas.</p> <p>Enbridge Gas intends to minimize disturbance to all natural areas to the extent possible. Invasive species will only be dealt with when encountered in the immediate workspace of construction works, as required.</p> <p>Post-construction monitoring reports are prepared and submitted by Enbridge Gas in fulfillment of OEB requirements. These reports are placed on the public record and may be reviewed by any interested person.</p>
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			<p>Enbridge should comment on long-term monitoring of the pipeline integrity at a frequency that ensures no fugitive emissions are leaking into the groundwater/soil/air. Fugitive emissions of methane (CH4) are common in old pipelines lacking maintenance and are concerning as CH4 has a high global warming potential. Monitoring plans should include mention of this potential issue.</p>	<p>Response: Enbridge Gas will ensure proper maintenance of the pipeline through remote and in-person monitoring of the pipeline for corrosion, leaks, or any other potential damage, as well as through the installation of pipelines with coatings and cathodic protection. Enbridge Gas is also part of Ontario One Call's program, therefore, limiting the potential for third-party damages to the pipeline. Enbridge Gas is committed to the health and safety of the public and continually performs routine maintenance and repairs on its entire pipeline system.</p>
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ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, Page 4 & 5

Question(s):

- a) Please reproduce Figure 1 and Table 1 adding a separate column for heating with electric air source heat pumps. Please provide a table listing all the calculations and assumptions underlying the cost estimate for electric air source heat pumps.
- b) Please reproduce Figure 1 and Table 1 adding details for the annual costs for a cold-climate heat pump generated using the Guidehouse spreadsheet filed in the Hidden Valley Community Expansion Case, updated to incorporate the latest rates and the gas monthly customer charges.
- c) Please provide all the underlying calculations and assumptions underlying Figure 1 and Table 1, including the underlying spreadsheet with live formulas. Please include all assumptions, including, but not limited to, the assumed price on carbon.
- d) If an excel spreadsheet is used to assess the relative cost-effectiveness of the various heating options, please provide that live excel spreadsheet with the variables set consistent with output in Figure 1. A model that Enbridge used in the past can be found at EB-2019-0188, Exhibit I.ED.7, Attachment 1, but we do not have a version that has been updated and set with the variables used in this case.

Response:

a) – b)

ED's request seeks to have Enbridge Gas develop information that is unrelated to and incongruent with the purpose of the figure and table referenced in the interrogatory (Figure 1 and Table 1), which is to illustrate consumer cost savings for conversions from existing base case fuel (i.e., electric (resistance), oil, and propane) to natural gas. Figure 1 and Table 1 are not intended to provide information regarding consumer conversions from natural gas (or other fuels) to non-natural gas energy solutions. As a result, it is not appropriate to provide a response to ED's request.

Enbridge Gas has provided a lengthy discussion regarding the annual operating costs and up-front capital costs of high-efficiency electric cold climate air source heat pumps (ccASHP) in the response to Exhibit I.ED-28. However, the intent of this leave to construct Application is to demonstrate the need for, and community interest in, connecting to natural gas, and therefore incorporating the ccASHP data into Figure 1 and Table 1 serve no practical purpose in the context of this Application. In fact, providing consumers with cost information regarding conversions to ccASHP is not relevant to Enbridge Gas's natural gas leave to construct Applications, as the Company has no ability to cause consumers to convert to those solutions via the Applications. Furthermore, the OEB is not making a choice between heat pumps or the pipeline expansion

Aside from the relevance issue, there are a number of other reasons why providing the comparison requested would be inappropriate and/or misleading:

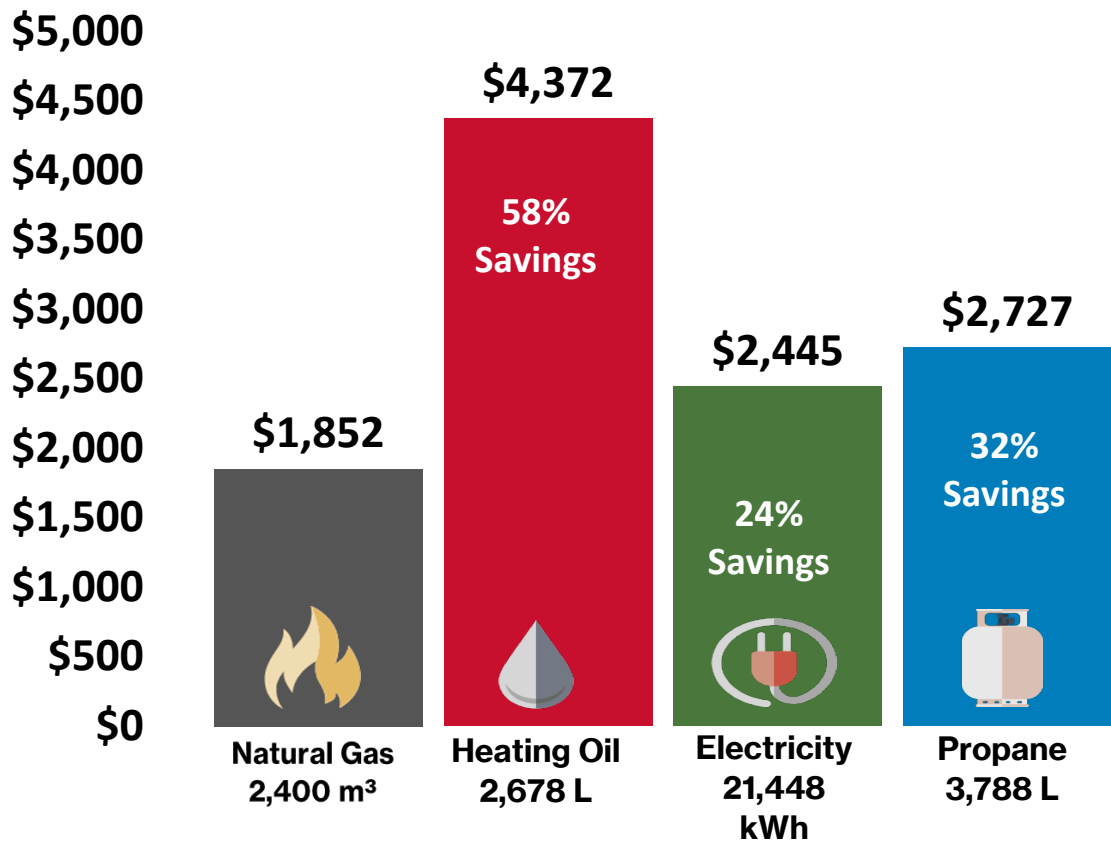
- Information related to conversions to non-natural gas energy solutions without consideration of those energy solutions' supply-side requirements and implications would not be appropriate or valuable. Regarding natural gas solutions, the Company's natural gas community expansion applications contemplate all OEB-established natural gas supply-side requirements for leave to construct, including natural gas project costs, natural gas project economics, environmental impacts, land impacts, and Indigenous consultations.
- Figure 1 and Table 1 reflect whole-home heating scenarios (which include space heating and water heating). High-efficiency electric ccASHPs only provide space heating. As such, ED's request to add high-efficiency electric ccASHPs omits water heating considerations from the analysis. Adding electric water heating equipment to the analysis would require additional and separate performance efficiency considerations from the high-efficiency electric ccASHP, further complicating the analysis.
- The performance efficiencies of the energy solutions in Figure 1 and Table 1 are based on weighted-average efficiencies for each fuel type, not the highest possible performance efficiency for each fuel type. ED's request to add high-efficiency electric ccASHPs to Figure 1 and Table 1 as a comparable to the other energy solutions would be an asymmetrical comparison to those other energy solutions.

In summary, Enbridge Gas is neither causing consumers to convert to high-efficiency electric ccASHPs, nor causing consumers to convert from high-efficiency electric ccASHPs to natural gas, via the current leave to construct Application. As such, and based on the foregoing, providing consumer cost comparison information for high-efficiency electric ccASHPs as requested by ED is entirely outside of the scope of the Company's natural gas leave to construct Application.

c - d)


Please see Attachment 1 to this response for all the underlying calculations and assumptions used for Table 1 and Figure 1. The model referenced by ED in the interrogatory was not used in relation to this Project or the current Application.

**Rate 1
Annual Space & Water Heating Cost**



Notes: Natural gas price is based on Rate 1 rates in effect as of July 1, 2023, and includes the \$0.23 per m³ expansion surcharge. Oil and propane prices are based on the latest available retail prices. Electricity rates based on Hydro One Distribution rates (Mid-density R1) as of Jan. 1, 2023, and Regulated Price Plan (RPP) customers that are on Time-Of-Use (TOU) pricing. It includes the Ontario Electricity Rebate (OER). Electric cold climate air source heat pumps are available but not included in the savings calculations. Costs have been calculated for the equivalent energy consumed and include all service, delivery and energy charges. The Federal carbon charge is included for all energy types as reported and projected to increase annually depending on government policies. HST is not included.

Summarized Cost Comparison

		Annual Cost Comparison: Space & Water Heating			
		Natural Gas \$0.772/m ³	Heating Oil \$1.633/L	Electricity \$0.114/kWh	Propane \$0.720/L
Annual Consumption	2,400	2,678	21,448	3,788	
Annual Contribution to Energy Bill	\$1,852	\$4,372	\$2,445	\$2,727	
Energy Cost per Unit	\$0.772	\$1.633	\$0.114	\$0.720	
Heating & Wh Seasonal Efficiency (%)	83%	78%	99%	79%	
Annual Natural Gas Savings (\$)		\$2,520	\$593	\$875	
Annual Natural Gas Savings (%)		58%	24%	32%	

Notes:

- (1) Gas prices correspond to EGD rate zone July 2023 rates, including 23 cents per m³ SES charge
- (2) Heating Oil Prices correspond to the latest available Toronto retail prices (April 2023)
- (3) Hydro prices correspond to Hydro One (Med Density - R1) distribution rates as of January 1, 2023 and includes the new Ontario Electricity Rebate (OER). Electric cold climate air source heat pumps are available but not included in the savings calculation.
- (4) Electricity prices are calculated based on regulated price plan (RPP) customers that are on Time-of-Use
- (5) Propane prices correspond to the latest available monthly average EDPRO residential rates for Zone 5
- (6) Carbon price is included for all energy types as reported and projected to increase annually depending on government policies.
- (7) All costs exclude HST.

Efficiency-Adjusted Energy Source Conversion

<u>Table 1</u>				
Energy Energy Units	Natural Gas m3	Heating Oil L	Electricity kWh	Propane L
EGD Rate Zone - Residential Rate 1	2,400	2,678	21,448	3,788

Energy Conversion Assumptions

<u>Table 1 (1)</u>		
Unit	Equivalent Value	Equivalent Unit
1.0 Gigajoules (GJ)	277.7778	Kilowatt-hours (kW.h)
1.0 Gigajoules (GJ)	26.853	Cubic metres (m ³) natural gas
1.0 Kilowatt-hours (kW.h)	0.0036	Gigajoules (GJ)

Note:
 (1) Sourced from <https://apps.cer-rec.gc.ca/Conversion/conversion-tables.aspx?GoCTemplateCulture=en-CA>

<u>Table 2 (1)</u>			
Substance	Unit	Equivalent Value	Equivalent Unit
Heating Oil	1.0 Cubic metres (m ³)	36.72	Gigajoules (GJ)
Propane	1.0 Cubic metres (m ³)	25.53	Gigajoules (GJ)

Note:
 (1) Sourced from <https://apps.cer-rec.gc.ca/Conversion/conversion-tables.aspx?GoCTemplateCulture=en-CA>

<u>Table 3</u> <u>Enbridge Gas unit of Measure Conversion Information</u>	
	EGD Rate Zone (1)
Heat Value (MJ/m ³)	38.53
Conversion Factor (GJ/m ³)	0.03853

Note
 (1) Sourced from EB-2022-0286, Rate Handbook, Rate 1 Residential Service (MJ/m³)

<u>Table 4</u> <u>Energy Price Conversion</u>			
Substance	Starting Unit	Conversion	Conversion Unit
Electricity	GJ	277.7777778	kWh
Heating Oil	GJ	27.23311547	L
Propane	GJ	39.16960439	L

Efficiency Factor Assumptions

<u>Table 1</u>	
Current Assumed Base Load and Heat Load Proportions	
<u>Heat Load:</u>	
Space Heating (SH)	70%
<u>Base Load:</u>	
Domestic Water Heating (DWH)	30%
Total Load	100%

<u>Table 2</u>				
Current Efficiency Factors for a Typical Residential Customer - Rate 1				
	<u>Natural Gas</u>	<u>Electricity</u>	<u>Heating Oil</u>	<u>Propane</u>
Space Heating (SH)	89%	100%	84%	84%
Domestic Water Heating (DWH)	68%	98%	65%	68%
Total	83%	99%	78%	79%

Natural Gas Assumptions

<u>Table 1</u>		
Typical Residential Customer Total Bill Impacts (1)		
EGD		
Rates Effective: <u>July 1, 2023</u>		
Volume	m3	2,400
Customer Charge	\$	274.56
Distribution Charge	\$	227.50
Load Balancing	\$	33.81
Transportation	\$	102.49
Sales Commodity	\$	285.77
Federal Carbon Charge	\$	297.36
Cost Adjustment	\$	
Gas Supply	\$	92.80
Transportation	\$	1.00
Delivery	\$	(15.24)
Total Sales with Cost Adjustments	\$	1,300.04
Average Rate	\$	0.54
System Expansion Surcharge (SES)	\$	0.23
Average Rate including SES	\$	0.772

Notes for Table 1:

(1) Sourced from EB-2023-0134, Exhibit A, Tab 3, Schedule 1, Page 1

Oil Assumptions

Month	Federal/Provincial Carbon Tax Charge HHO (2)	HHO (v735163) (3)	HHO (excl. GST/HST)	HHO (excl. tax and C&T)
Jan-23	13.41	221.6	196.11	182.70
Feb-23	13.41	196.9	174.25	160.84
Mar-23	13.41	186.5	165.04	151.63
Apr-23	17.38	184.5	163.27	145.89
Total \$/L	1.633			

Notes for Table 1:

- (1) all prices in cents/litre
- (2) Sourced from <https://www.canada.ca/en/revenue-agency/services/forms-publications/publications/fcrates/fuel-charge-rates.html#confacnatgas>
- (3) Sourced from the Conference Board of Canada (CANSIM) - v735163

Electricity Assumptions

Ontario Energy Rebate (OER): 11.7% (1)

	Cents/kWh (2)	% of Load (3)
On Peak	15.10	19%
Mid Peak	10.20	18%
Off Peak	7.40	63%
Total Load - cent/KWh	9.37	
Total Load - \$/kWh	0.0937	

Notes for Table 1:

- (1) Sourced from OEB Newsroom - Friday Oct. 21, 2022
- (2) TOU rates effective from May 1, 2023 to October 31, 2023
- (3) Sourced from OEB Regulated Price Plan Price Report - November 1, 2021 to October 31, 2022

Rates Effective	1-Jan-2023
Service Charge	60.72 \$/month
Distribution Rate	0.0056 \$/kWh
Transmission	0.0188 \$/kWh
Wholesale Market Service Rate + CBI	0.0034 \$/kWh
Rural rate protection charge	0.0005 \$/kWh
Adjustment Factor Charge	1.076
Standard Supply Service Charge	0.25 \$/month
Fixed Charge Rate Riders	
SME	0.42 \$/month
Total \$/kWh	0.1291 \$/kWh
Total \$/kWh with OER	0.1140 \$/kWh
Total \$/kWh with OER, no distributor	0.1090 \$/kWh

Notes for Table 2:

- (1) Sourced from EB-2021-0110 Hydro One Networks Inc. Tariff of Rates and Charges, Effective and Implementation Date January 1, 2023
Medium Density - R1

Propane Assumptions

Ending Value Apr. 28, 2023 (cents/L) 65.60 (1)

Date	\$/L	Cents/L	Daily Price Change (2)	Carbon Tax (3)	Total
28-Apr-2023	0.6560	65.60	(0.70)	0.1006	0.7566
29-Apr-2023	0.6520	65.20	(0.40)	0.1006	0.7526
30-Apr-2023	0.6520	65.20	0.00	0.1006	0.7526
01-May-2023	0.6520	65.20	0.00	0.1006	0.7526
02-May-2023	0.6350	63.50	(1.70)	0.1006	0.7356
03-May-2023	0.6280	62.80	(0.70)	0.1006	0.7286
04-May-2023	0.6150	61.50	(1.30)	0.1006	0.7156
05-May-2023	0.6240	62.40	0.90	0.1006	0.7246
06-May-2023	0.6290	62.90	0.50	0.1006	0.7296
07-May-2023	0.6290	62.90	0.00	0.1006	0.7296
08-May-2023	0.6290	62.90	0.00	0.1006	0.7296
09-May-2023	0.6330	63.30	0.40	0.1006	0.7336
10-May-2023	0.6310	63.10	(0.20)	0.1006	0.7316
11-May-2023	0.6280	62.80	(0.30)	0.1006	0.7286
12-May-2023	0.6230	62.30	(0.50)	0.1006	0.7236
13-May-2023	0.6170	61.70	(0.60)	0.1006	0.7176
14-May-2023	0.6170	61.70	0.00	0.1006	0.7176
15-May-2023	0.6170	61.70	0.00	0.1006	0.7176
16-May-2023	0.6110	61.10	(0.60)	0.1006	0.7116
17-May-2023	0.6120	61.20	0.10	0.1006	0.7126
18-May-2023	0.6150	61.50	0.30	0.1006	0.7156
19-May-2023	0.6120	61.20	(0.30)	0.1006	0.7126
20-May-2023	0.6140	61.40	0.20	0.1006	0.7146
21-May-2023	0.6140	61.40	0.00	0.1006	0.7146
22-May-2023	0.6140	61.40	0.00	0.1006	0.7146
23-May-2023	0.6140	61.40	0.00	0.1006	0.7146
24-May-2023	0.6140	61.40	0.00	0.1006	0.7146
25-May-2023	0.6180	61.80	0.40	0.1006	0.7186
26-May-2023	0.6110	61.10	(0.70)	0.1006	0.7116
27-May-2023	0.6110	61.10	0.00	0.1006	0.7116
28-May-2023	0.6110	61.10	0.00	0.1006	0.7116
29-May-2023	0.6110	61.10	0.00	0.1006	0.7116
30-May-2023	0.6110	61.10	0.00	0.1006	0.7116
31-May-2023	0.5980	59.80	(1.30)	0.1006	0.6986
May Monthly Average		61.929			
Current Price:		61.929			
Carbon Tax:		10.060			
Total Cents/L		71.989			
\$/L		0.71989			

Notes for Table 1

(1) Date of the last recorded daily price change from the previous month

(2) Source: <https://edproenergy.com/residential/>

Zone 5

2,500-4,499 Litres

(3) Source: <https://www.canada.ca/en/revenue-agency/services/forms-publications/publications/fcrates/fuel-charge-rates.html>

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1

Question(s):

- a) Please provide all communications to and from the Township of Uxbridge regarding the project, including all communications to the Township of Uxbridge describing the benefits (e.g. letters, presentations, etc.).
- b) Please provide a list of all meetings with staff and elected officials from the Township of Uxbridge and the meeting notes and materials for each.

Response:

- a) Please see Attachment 1 for a record of communications between Enbridge Gas and the Township of Uxbridge regarding the Project.
- b) Please see Attachment 2 for a summary of consultation between Enbridge Gas and the Township of Uxbridge regarding the Project.

From: [Rosemary Caines](#)
To: dbarton@town.uxbridge.on.ca
Cc: [Steve McGivery](#); [Mark Wilson](#)
Subject: Natural Gas Expansion Program
Date: Thursday, February 20, 2020 3:26:05 PM
Attachments: [Sample Support Letter.pdf](#)
[Anticipated Submission Requirements.pdf](#)
[Township of Uxbridge.pdf](#)

Greetings,

In December 2019, the Government of Ontario announced its plans to further increase access to natural gas by making financial support available for new expansion projects. The Government's Natural Gas Expansion Program offers an opportunity to drive economic development and enhance the quality of life and prosperity of families and businesses across Ontario.

As a Regional Director for Enbridge Gas Inc. in your area, I'm writing to provide an update on next steps, and how we can work together to bring natural gas to unserved communities in Ontario. Please find a few items with additional details on the program, our approach, and our anticipated project submission requirements attached to this email.

Please be in touch with us if you have a project in your communities that you would like to put forward for consideration for submission.

With thanks,

Rosemary Caines

Administrative Assistant
On behalf of Steve McGivery - Director
GTA East Operations

ENBRIDGE GAS INC.

TEL: 905-927-3273 | FAX: 905-927-3292 | CELL: 416-902-7459
Technology & Operations Centre
101 Honda Blvd. Markham, Ontario L6C 0M6

enbridgegas.com

Safety. Integrity. Respect.



The Corporation of the

**Township
of
Uxbridge**

In The Regional Municipality of Durham

Town Hall
51 Toronto Street South
P.O. Box 190
Uxbridge, ON L9D 1T1
Telephone (905) 852-9181
Facsimile (905) 852-9674
Web www.uxbridge.ca**SENT VIA EMAIL**

June 24, 2020

Mark Wilson
Senior Advisor Municipal Affairs
Enbridge Gas Distribution
mark.wilson@enbridge.com**RE: NATURAL GAS EXPANSION PROGRAM - SANDFORD
TOWNSHIP FILE: A-00 G**

In December 2019, the Government of Ontario announced plans to further increase access to natural gas by making financial support available for new service expansion projects. This Natural Gas Expansion Program will unlock financial support needed to expand natural gas service to new areas across Ontario that are not economically feasible without support. Our municipality is one such area, and we are eager to bring this affordable, reliable fuel source to our residents and businesses.

On behalf of the Township of Uxbridge, I would like to formally express our interest to have SANDFORD included on Enbridge Gas' list of projects being proposed to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Program.

Based on the Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may include support for the proposed project from Band Council(s) and/or local government, as applicable, demonstrated through a written expression of support and/or a commitment to financial support in its project submissions.

Natural gas is the most common, affordable heating fuel in Ontario. We fully support the efforts of Enbridge Gas Inc., the OEB and the Ministry of Energy, Northern Development and Mines. We look forward to working together to expand natural gas access in our community to attract new opportunities, help create jobs and lower monthly costs for our residents.

Yours truly,

A handwritten signature in black ink, appearing to read "Debbie Leroux", with a large, stylized flourish at the end.

^{per.}
Debbie Leroux

Director of Legislative Services/Clerk
/jlb



The Corporation of the
**Township
of
Uxbridge**
In The Regional Municipality of Durham

Town Hall
51 Toronto Street South
P.O. Box 190
Uxbridge, ON L9P 1T1
Telephone (905) 852-9181
Facsimile (905) 852-9674
Web www.uxbridge.ca

SENT VIA EMAIL

June 24, 2020

Mark Wilson
Senior Advisor Municipal Affairs
Enbridge Gas Distribution
mark.wilson@enbridge.com

**RE: NATURAL GAS EXPANSION PROGRAM - SANDFORD
TOWNSHIP FILE: A-00 G**

Please be advised that during the regular meeting of the General Purpose and Administration Committee of June 15, 2020 the following motion was carried:

THAT correspondence from Enbridge Gas regarding a natural gas expansion program opportunity to bring natural gas to other communities in Uxbridge be received for information;

AND THAT staff send a letter of support to Enbridge Gas with respect to bringing the Natural Gas Expansion Program to the Hamlet of Sandford including financial support as provided in the previous intake.

Should you have any questions or concerns with respect to the above, don't hesitate to contact the undersigned.

Yours truly,

Debbie Leroux
Director of Legislative Services/Clerk
/ljr



Enbridge
500 Consumers Road
North York, Ontario M2J 1P8
Canada

DATE

Dear Mayor Barton and Members of Council,

Re: Natural Gas Expansion Program

Recently, the Government of Ontario announced the projects that are eligible for funding assistance under its Natural Gas Expansion Program. We are pleased that our project to make natural gas service accessible to the Sandford area of Uxbridge Township area has been approved for funding assistance.

Enbridge Gas can now proceed with the steps required to expand access to natural gas in Uxbridge Township, which may include Leave to Construct or other regulatory approvals from the Ontario Energy Board (OEB). Program funding is conditional upon the project receiving OEB approvals and construction of the new natural gas infrastructure cannot begin until this approval is received.

Once Enbridge Gas receives the required regulatory approval, we will be able to provide more detail on construction timelines, the processes to connect homes and businesses to natural gas, and what residents and businesses can do to prepare. We will keep you apprised as the regulatory approvals and project scope are finalized.

Enbridge Gas has been meeting Ontario's energy needs for more than 170 years and we look forward to bringing access to natural gas to new areas across Ontario. Our customers count on us to deliver clean, reliable and affordable natural gas, and we are proud to deliver on this commitment. Our work to expand access to natural gas will continue – so too will our exploration of other alternative energy solutions, such as renewable natural gas, hydrogen blending and geothermal energy, as pathways to lower-cost, clean and reliable energy options for Ontarians.

We look forward to working together and collaborating on next steps. In the meantime, please do not hesitate to contact me, or your municipal advisor, if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Steve McGivery'.

Steve McGivery
Director, GTA East Operations
Enbridge Gas Inc.
Steve.McGivery@enbridge.com
905-927-3184

CC: Sonia Fazari, Sr. Municipal Advisor, Sonia.Fazari@enbridge.com

Uxbridge Council

On Aug 17, 2021, at 3:40 PM, Cindy Mills <Cindy.Mills@enbridge.com> wrote:

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mayor Barton

Congratulations on the successful application and approval for natural gas expansion to the Sandford community! I know the community will benefit from the safe, reliable and affordable energy to be delivered. I was unable to attend the event in person last week, but I know it was well received by all and your enthusiasm and support is appreciated. Please reach out if you have any questions. My team and I look forward to continued support and collaboration.

Regards

Cindy

Cindy Mills

Manager Municipal, Stakeholder & Community Engagement

ENBRIDGE GAS INC.

Cell: 416-254-0707

500 Consumers Rd, North York ON M2J 1P8

<https://www.enbridge.com/>

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From: Bruce Garrod <bgarrod@uxbridge.ca>
Sent: Tuesday, April 12, 2022 1:44 PM
To: Cindy Mills <Cindy.Mills@enbridge.com>
Cc: Dave Barton <dbarton@uxbridge.ca>
Subject: [External] RE: Natural Gas Expansion to Sandford

CAUTION! EXTERNAL SENDER

**Were you expecting this email? TAKE A CLOSER LOOK. Is the sender legitimate?
DO NOT click links or open attachments unless you are 100% sure that the email is safe.**

Hi Cindy... Dave's request below was related to a enquiry I had from a resident on 6th Concession.
Do you know the route and timing of the gas line? Would a farm on 6th Concession north of Davis Dr be able to 'tap into' it?

Thanks
Bruce

Bruce Garrod

**Ward 3 Councillor, Township of Uxbridge
Chair of Finance
Alternate Durham Regional Representative
Mobile: 416-788-5388**

From: Dave Barton <dbarton@uxbridge.ca>
Sent: April 4, 2022 7:37 PM
To: Cindy Mills <Cindy.Mills@enbridge.com>
Cc: Bruce Garrod <bgarrod@uxbridge.ca>
Subject: Re: Natural Gas Expansion to Sandford

Hello Cindy,

I hope all is well with you. Do you know the exact route of the Sandford natural gas line? I have residents who are asking.

Thanks.
Dave

Sent from my iPhone

Dave Barton

From: [Kendra Black](#)
To: [Brittany Calhoun](#); [Fion Lam](#); [Liz Disepolo](#); [Anmol Singhal](#)
Subject: FW: Natural Gas Expansion to Sandford
Date: Thursday, July 27, 2023 1:53:00 PM

An example of an exchange with Mayor Barton.

From: Cindy Mills
Sent: Tuesday, April 12, 2022 3:05 PM
To: 'Bruce Garrod' <bgarrod@uxbridge.ca>
Cc: Dave Barton <dbarton@uxbridge.ca>
Subject: RE: Natural Gas Expansion to Sandford

Good Afternoon and thank you for your enquiry. As you can imagine, since we held the local announcement in August 2021, our team has been working on finalizing project schedules and the proposed pipeline route.

This summer, we plan to visit the area to conduct some preliminary field work, which helps inform our proposed project route and helps refine our timelines for construction. Each project comes with its own complexities, regulatory requirements, permits, and consultation timelines, which are all factors in determining a project's start time and specific pipe location – and we are working through those conditions and requirements now so we can provide natural gas to a total of 138 customers in Sandford. We anticipate this project will start construction in Q1 2024.

There will be opportunities in the future to engage with the local area residents on this project as it will require a Leave-to-Construct application, including a public information session. During these sessions, attendees are able to learn about the proposed pipeline route, our construction process, our environmental practices, and about how to get connected to natural gas.

As we get closer to the date, we will be able to provide more information about the project and upcoming public information sessions. We will also share this information with yourself and the municipality. Updates will be posted on our website at: www.enbridgegas.com/savewithgas

I hope this helps and please reach out with any questions as we move along the process.

Cindy

Cindy Mills
Manager Municipal, Stakeholder & Community Engagement

ENBRIDGE GAS INC.
Cell: 416-254-0707
500 Consumers Rd, North York ON M2J 1P8
<https://www.enbridge.com/>
Safety. Integrity. Respect. Inclusion.

From: Bruce Garrod <bgarrod@uxbridge.ca>
Sent: Thursday, April 21, 2022 6:48 AM
To: Cindy Mills <Cindy.Mills@enbridge.com>
Subject: [External] RE: Natural Gas Expansion to Sandford

CAUTION! EXTERNAL SENDER

Were you expecting this email? TAKE A CLOSER LOOK. Is the sender legitimate?

DO NOT click links or open attachments unless you are 100% sure that the email is safe.

Hi Cindy.. thank you for this important update.

I expect to be more involved with Uxbridge's rural residents and the hamlets this summer during the election campaign. One element I would like to better understand is who will enjoy the benefit of the arrival of natural gas.

You note below that 138 customers will be serviced. Will homeowners along the pipeline path also be able to connect? More specifically, if the pipeline were to be extended from the urban area of Uxbridge and travel north, perhaps along 6th Concession, would properties along 6th Concession be permitted to connect. I appreciate the final path is still being mapped but residents seeing the activity will be interested in knowing if they can benefit from the expanded service.

Thank you for your assistance

Bruce Garrod

Ward 3 Councillor, Township of Uxbridge
Chair of Finance
Alternate Durham Regional Representative
Mobile: 416-788-5388

From: [Kendra Black](#)
To: [Brittany Calhoun](#); [Fion Lam](#); [Liz Disepolo](#); [Anmol Singhal](#)
Subject: FW: Natural Gas Expansion to Sandford
Date: Thursday, July 27, 2023 1:53:00 PM
Attachments: [Sandford - Schedule 6V-1 - Map \(REDACTED\).pdf](#)

And here is another.

From: Cindy Mills <Cindy.Mills@enbridge.com>
Sent: Tuesday, April 26, 2022 12:34 PM
To: Bruce Garrod <bgarrod@uxbridge.ca>
Cc: Sonia Fazari <Sonia.Fazari@enbridge.com>; Liz Disepolo <Liz.Disepolo@enbridge.com>
Subject: RE: Natural Gas Expansion to Sandford

Hi Bruce;

As with all community expansion projects, once the proposed route is determined, we will look to engage the community through a variety of outreach activities. Our customer engagement team will also work with each customer on how to get connected to gas and answer any questions that they have.

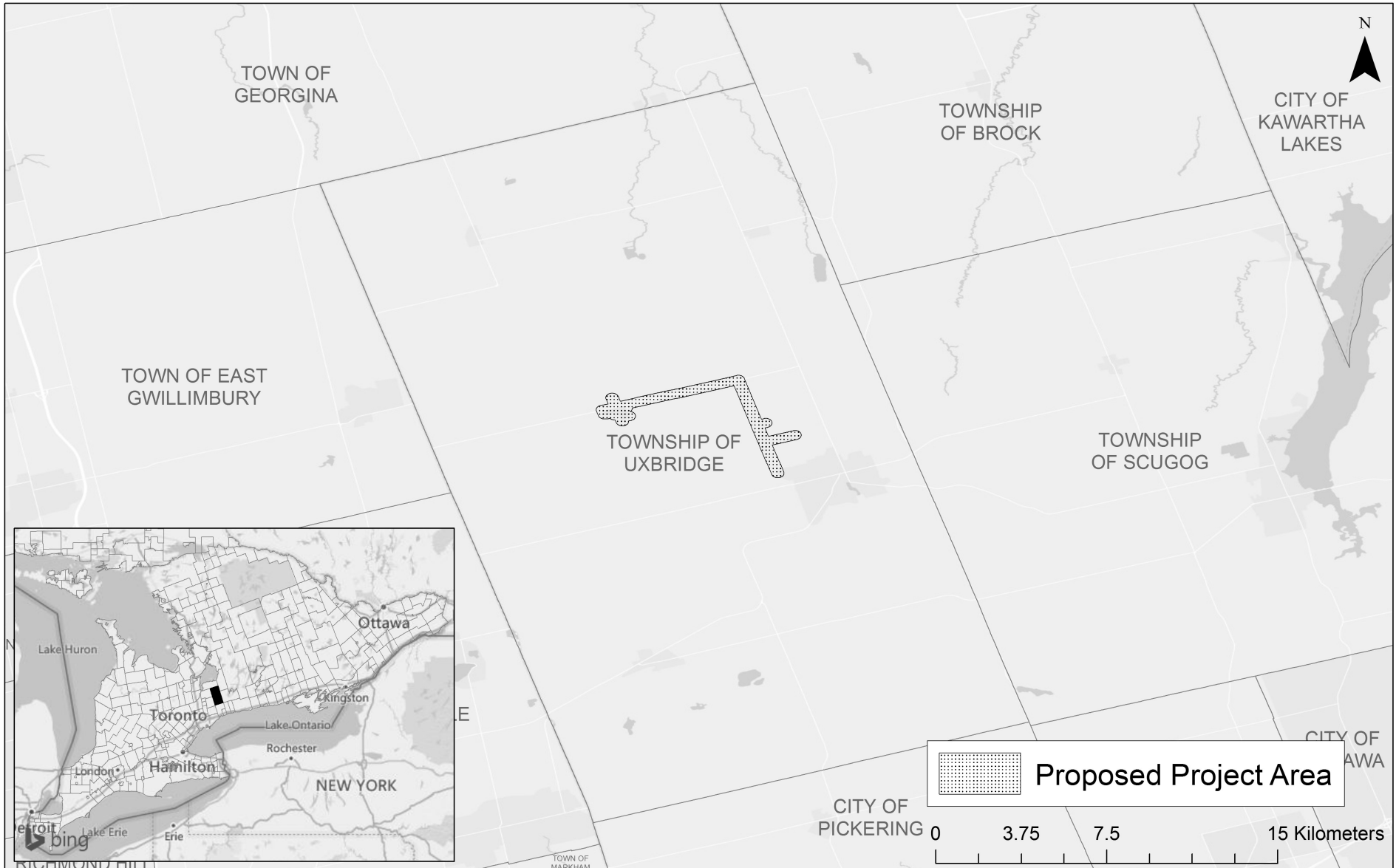
I look forward to staying connected throughout the project and please reach out to myself or to our team representatives sonia.fazari@enbridge.com and liz.disepolo@enbridge.com.

Be Well
Cindy



Redacted

Sandford



From: [Sonia Fazari](#)
To: mayor@uxbridge.ca; [Bruce Garrod](mailto:Bruce.Garrod); pbeach@uxbridge.ca; gshreeve@uxbridge.ca; gshreeve@uxbridge.ca; zpickering@uxbridge.ca; tsnooks@uxbridge.ca
Subject: Notice of Commencement - Sandford Community Expansion Project
Date: Monday, March 13, 2023 10:40:38 AM
Attachments: [02-EGI Sandford NoC Letter Uxbridge Fire 10Mar2023.pdf](#)

Dear Mayor Burrow and Members of Council,

Please find attached a copy of the Notice of Commencement letter and associated project map regarding the proposed Sandford System Expansion Project. In the coming weeks, I will reach out to arrange a deputation to present to council regarding the project. In the meantime, please don't hesitate to reach out with any questions you may have.

Kind regards,
Sonia

Sonia Fazari

Sr. Advisor, Municipal and Stakeholder Engagement, Eastern Region
Public Affairs and Communications

ENBRIDGE GAS INC.

TEL: 416-753-6962 | CELL: 416-525-2497
500 Consumers Road
North York, ON M2J 1P8

enbridge.com

Integrity. Safety. Respect. Inclusion.



March 10, 2023

To Whom It May Concern
Uxbridge Fire Services
General Inquiry
301 Brock St. W. P.O. Box 190
Uxbridge, Ontario L9P 1T1

Dear Sir or Madam,

ENBRIDGE GAS INC. – PROPOSED SANDFORD COMMUNITY EXPANSION PROJECT NOTICE OF STUDY COMMENCEMENT AND VIRTUAL OPEN HOUSE

This letter is to inform you of an upcoming pipeline project to meet the increased demand for affordable energy in the Sandford community within the Township of Uxbridge.

Enbridge Gas Inc. (Enbridge Gas) is proposing to construct the Sandford Community Expansion Project (the Project) to supply the community of Sandford with access to natural gas service. There are two routes being considered for the project, a preliminary preferred route (PPR), and an alternative route (AR), which are depicted in the notice attached to this letter.

Both the PPR and AR consist of the installation of a combination of 2-inch and 4-inch polyethylene (PE) natural gas pipeline commencing at the intersection of 6th Concession Road and Bolton Drive. From there the PPR and AR pipeline would extend north along 6th Concession Road to Davis Drive. The PPR would continue north along 6th Concession Road to Sandford Road, and then west along Sandford Road towards the community of Sandford. Alternatively, the AR would extend west along Davis Drive to Concession Road 4, and then north along Concession Road 4 towards the community of Sandford. A PE pipeline would then service potential customers within the community of Sandford. The approximate length of the pipeline to be installed is 13 km.

Station upgrades may be required at the intersection of Concession Road 6 and Bolton Drive to accommodate the increased supply of natural gas. The station upgrade location is not included in the attached notice as the proposed location is not yet determined; however, it will ultimately be placed within the study area as part of this Project.

Enbridge Gas has retained WSP Canada Inc. (WSP) to undertake an environmental study for the Project. The study will examine the route options and determine, from an environmental and socio-economic perspective, the preferred route for the Project. An Environmental Report will be prepared in accordance with the Ontario Energy Board (OEB) *Environmental Guidelines for the Location, Construction and Operation for Hydrocarbon Pipelines and Facilities in Ontario, Seventh Edition (2016)*. The preparation of the Environmental Report is currently

[AGENCY TITLE]

March 10, 2023

underway, and it is anticipated that the Environmental Report will be completed in spring 2023. Upon completion, Enbridge Gas will file an application to the OEB for a leave to construct the Project. If approved, construction of the Project is anticipated to begin in the Q1 2024.

To support the environmental study, WSP is compiling information regarding existing environmental, socio-economic, cultural heritage and archaeological features in the study area. The study area is depicted in the attached notice. WSP is also compiling information regarding current planning policies and guidelines for consideration in the study. We are requesting any information pertaining to existing conditions and planning policies and guidelines relevant to the study area that may fall within your mandate. In addition, we are requesting information regarding future development in the study area under your jurisdiction. If you have information relevant to the Project, please contact the undersigned to discuss how we can obtain this information from your organization.

The environmental study includes consultation with Indigenous communities and engagement with government agencies and officials, property owners, local interest groups and the general public. The outcomes of the consultation and engagement process will play a fundamental role in the planning and development of the Project. Enbridge Gas will be hosting a **virtual** open house for the Project that will provide more information to interested parties and present opportunity for people to ask questions and provide feedback.

Further details about the virtual open house are provided in the notice attached to this letter.

All feedback and input gathered during the virtual open house, and throughout the consultation and engagement process for the Project, will be used to confirm baseline environmental conditions along the route alternatives to inform the selection of the preferred route and to identify site-specific mitigation for the Project, as required.

We kindly request that any input and comments regarding the Project are provided by your community within 30 days of the start of the virtual open house. Please let us know if you are unable to respond by this date but are interested in participating in the consultation and engagement process.

Please contact the undersigned by phone or by email to provide any comments, feedback, and input that you may have regarding the Project.

Sincerely,

WSP Canada Inc.



Kevin McGillicuddy
Environmental Assessment Specialist



Tamara Skillen
Director - Environmental Impact Assessment, Ontario

Telephone: 416-565-1537

E-mail: SandfordEA@wsp.com

Attachments (1): Notice of Study Commencement and Virtual Open House

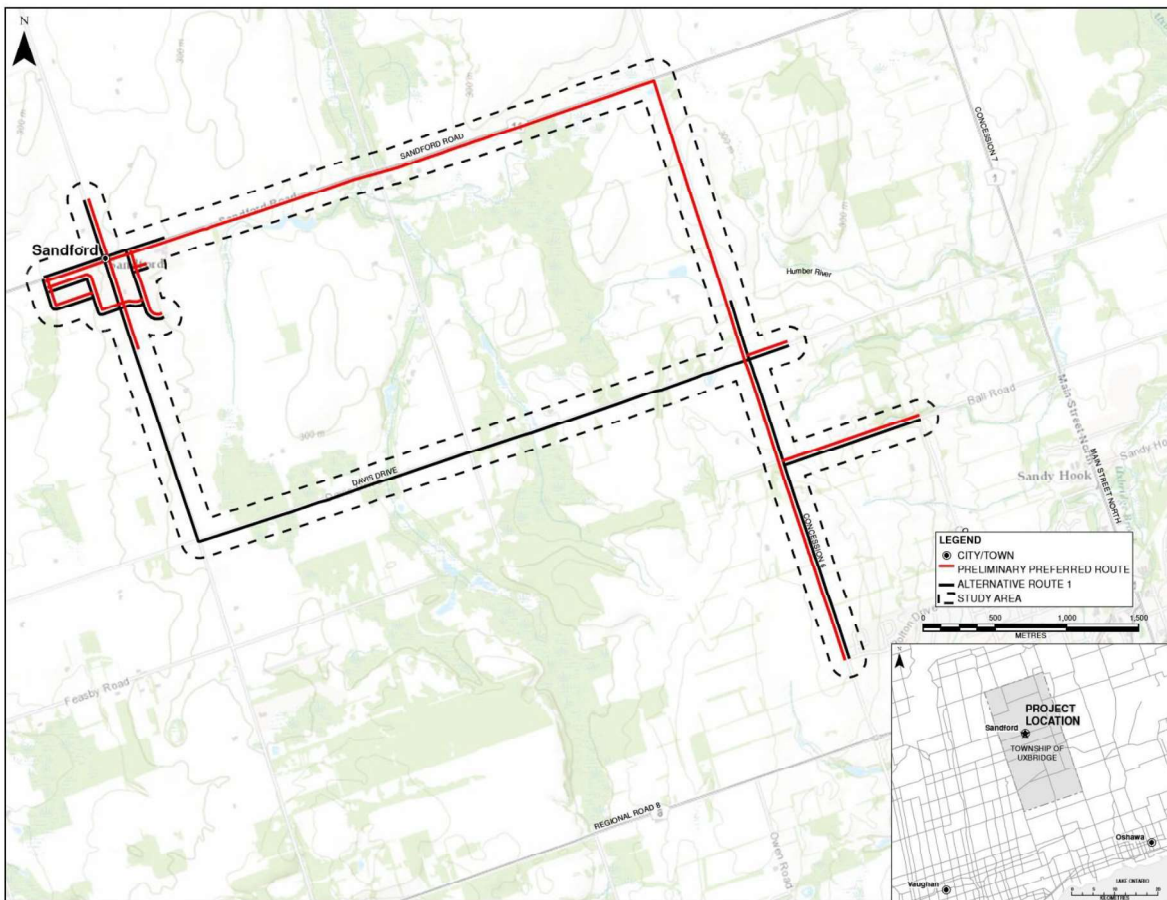
cc: Kelsey Mills, Environmental Advisor, Enbridge Gas Inc.

Sonia Fazari, Sr Advisor, Municipal & Stakeholder Engagement Enbridge Gas Inc.

Project Overview

Enbridge Gas Inc. (Enbridge Gas) is proposing to construct approximately 13 km of a combination of 4-inch and 2-inch natural gas pipeline to supply the community of Sandford with access to natural gas services.

There are two routes being considered for the project. These include the Preliminary Preferred Route (PPR) and the Alternative Route (AR). Both routes are located in the Township of Uxbridge. The PPR and AR would begin at the intersection of 6th Concession Road and Bolton Drive and would travel north along the 6th Concession Road to Davis Drive. The PPR would continue north along 6th Concession Road to Sandford Road, and then west along Sandford Road toward the community of Sandford. Alternatively, the AR would extend west along Davis Drive to Concession Road 4, and then north along Concession Road 4 toward the community of Sandford. Both the PPR and AR include servicing portions of Davis Drive and Ball Road. To accommodate the increased supply of natural gas, the project may also involve the building of a new distribution station at the intersection of Concession Road 6 and Bolton Drive, the proposed location of which is to be determined.



Environmental Study

Enbridge Gas has retained WSP to undertake an environmental study for the project. An Environmental Report will be prepared in accordance with the Ontario Energy Board (OEB) *Environmental Guidelines for the Location, Construction and Operation for Hydrocarbon Pipelines and Facilities in Ontario, Seventh Edition (2016)*. Upon completion, Enbridge Gas will file an application with the OEB. If approved, construction is anticipated to begin Q1 2024.

Virtual Open House

Indigenous consultation and public engagement are fundamental components of the study. Input received from Indigenous communities and stakeholders will inform the study and identification of site-specific mitigation for the project. Enbridge Gas will host a **Virtual Open House** to provide information about the project and to present an opportunity for interested stakeholders to ask questions and provide feedback. We want to hear from you!

Virtual Open House Active Dates:
March 20, 2023 9:00 AM – April 2, 2023 5:00 PM ET
Website: www.SandfordEA.ca

If you have any questions or comments regarding the environmental study or the project, if you are unable to access the virtual open house, or would prefer an alternative format of the virtual open house materials, please contact:

For additional information about the project, please visit the Enbridge Gas project website:
www.enbridgegas.com/SandfordCE

Kevin McGillicuddy
 Project Manager
 WSP Canada Inc.

Kelsey Mills
 Environmental Advisor
 Enbridge Gas Inc.

Project Email:
SandfordEA@wsp.com

Telephone: 416-565-1537



From: [Kendra Black](#)
To: dbarton@uxbridge.ca
Subject: Proposed natural gas expansion project | Sandford and Enbridge Gas
Date: Monday, July 24, 2023 7:55:00 AM
Attachments: [Template Letter of Support \(003\).docx](#)
[Sandford Support Letter and Resolution.pdf](#)

Greetings Mayor Barton,

I hope you are doing well and enjoying the summer.

I'm connecting today as the team is working toward our leave-to-construct application for the Sandford natural gas expansion project. Our leave-to-construction applications, which are submitted to the Ontario Energy Board, are enhanced when we are able to include letters of support from the municipality that the project will serve.

I wanted to follow up with you on if you and your municipality would provide a letter in support of our application leave-to-construct application (by way of a letter, or an email)? I know you area as excited as we are for this project. I've also attached the letter of support provided by the Township of Uxbridge in 2020 when we were compiling submissions for the natural gas expansion program just for reference/background.

Please let me know if you'd like to discuss or have any questions about our ask, or the project.

With thanks,

Kendra

Kendra Black
Supervisor, Municipal and Stakeholder Engagement
Public Affairs & Communications

ENBRIDGE GAS INC.
416-806-7443
500 Consumers Road, Toronto, ON, M2J 1P8

enbridgegas.com

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Month, Year

Re: Expression of Support for Sandford Community Expansion Project

Enbridge Gas is preparing a Leave-to-Construct (LTC) application to the Ontario Energy Board (OEB) for the Sandford Community Expansion Project.

This project will provide natural gas access to nearly 140 forecasted customers in our community over 10 years, which will give area residents a reliable, affordable option for their energy needs.

On behalf of the Township of Uxbridge, by way of this letter, I am providing written support for this project, and anticipate it will be included in Enbridge's submission files.

We look forward to working together on this project.

Sincerely,

Name

Title

Municipality Name

Contact Information



The Corporation of the

**Township
of
Uxbridge**

In The Regional Municipality of Durham

Town Hall
51 Toronto Street South
P.O. Box 190
Uxbridge, ON L9D 1T1
Telephone (905) 852-9181
Facsimile (905) 852-9674
Web www.uxbridge.ca**SENT VIA EMAIL**

June 24, 2020

Mark Wilson
Senior Advisor Municipal Affairs
Enbridge Gas Distribution
mark.wilson@enbridge.com**RE: NATURAL GAS EXPANSION PROGRAM - SANDFORD
TOWNSHIP FILE: A-00 G**

In December 2019, the Government of Ontario announced plans to further increase access to natural gas by making financial support available for new service expansion projects. This Natural Gas Expansion Program will unlock financial support needed to expand natural gas service to new areas across Ontario that are not economically feasible without support. Our municipality is one such area, and we are eager to bring this affordable, reliable fuel source to our residents and businesses.

On behalf of the Township of Uxbridge, I would like to formally express our interest to have SANDFORD included on Enbridge Gas' list of projects being proposed to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Program.

Based on the Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may include support for the proposed project from Band Council(s) and/or local government, as applicable, demonstrated through a written expression of support and/or a commitment to financial support in its project submissions.

Natural gas is the most common, affordable heating fuel in Ontario. We fully support the efforts of Enbridge Gas Inc., the OEB and the Ministry of Energy, Northern Development and Mines. We look forward to working together to expand natural gas access in our community to attract new opportunities, help create jobs and lower monthly costs for our residents.

Yours truly,

A handwritten signature in black ink, appearing to read "Joe Markes". The signature is fluid and cursive, with a large loop at the end.

^{per.}
Debbie Leroux

Director of Legislative Services/Clerk
/jlb



The Corporation of the
**Township
of
Uxbridge**
In The Regional Municipality of Durham

Town Hall
51 Toronto Street South
P.O. Box 190
Uxbridge, ON L9P 1T1
Telephone (905) 852-9181
Facsimile (905) 852-9674
Web www.uxbridge.ca

SENT VIA EMAIL

June 24, 2020

Mark Wilson
Senior Advisor Municipal Affairs
Enbridge Gas Distribution
mark.wilson@enbridge.com

**RE: NATURAL GAS EXPANSION PROGRAM - SANDFORD
TOWNSHIP FILE: A-00 G**

Please be advised that during the regular meeting of the General Purpose and Administration Committee of June 15, 2020 the following motion was carried:

THAT correspondence from Enbridge Gas regarding a natural gas expansion program opportunity to bring natural gas to other communities in Uxbridge be received for information;

AND THAT staff send a letter of support to Enbridge Gas with respect to bringing the Natural Gas Expansion Program to the Hamlet of Sandford including financial support as provided in the previous intake.

Should you have any questions or concerns with respect to the above, don't hesitate to contact the undersigned.

Yours truly,

Debbie Leroux
Director of Legislative Services/Clerk
/ljr

From: [Donna Popovic](#)
To: dbarton@town.uxbridge.on.ca
Subject: Enbridge Gas Introduction Follow-Up
Date: Tuesday, August 29, 2023 4:11:00 PM

Hello Mayor Barton,

I hope you're doing well. It was great to have the opportunity to meet you at the Enbridge reception during AMO last week and introduce myself as the new municipal and stakeholder engagement lead with Enbridge for the Town of Uxbridge.

As I've been getting up to speed in my new role and reviewing the community development projects under the Phase Two of the Natural Gas Expansion Support Program, including one in the community of Sandford. My colleagues have provided me with insight to the project developments and discussions we've had with the municipality to date. I want to also follow up on the LTC discussion from AMO, please see below suggested key messages regarding the LTC threshold to promote the issue with local MPPs or reach out to Ministers directly via letter or email on the issue in advance of Ontario's next red tape package this Fall.

Reducing red tape for more cost-effective, timely energy connections in Ontario

- The Government of Ontario should modernize the Ontario Energy Board's (OEB) Leave to Construct (LTC) process for smaller pipeline projects in order to bring reliable, affordable energy options to communities, homes and businesses in a more cost-effective and timely manner.
- Industry proposes updating the LTC cost threshold from \$2M to \$10M for hydrocarbon lines (by amending Ontario Regulation O.Reg.328/03) while maintaining current requirements and expectations for Indigenous consultation and environmental review for projects greater than \$2M and less than \$10M.
- These outdated regulations are causing the LTC to apply far more broadly than intended when it was established over 20 years ago:
 - Due to increased regulatory and cost pressures, as well as inflation, virtually all gas pipeline projects are now greater than \$2M rendering the threshold meaningless.
 - Roughly 0.5 KM pipe in urban settings now often exceeds the \$2M threshold.
- Modernizing these outdated regulations would reduce delays and costs for economic development initiatives including transit projects, community expansion projects, housing developments, connections for low carbon fuel blending (e.g. renewable natural gas, hydrogen) as well as residential and business customer connections:
 - Based on OEB's performance standards, this proposal would save approx. 5-7 months of regulatory process. The 5-7-month LTC is in addition to the time needed to undertake Indigenous consultation and environmental review and prepare an application to the OEB.
 - The cost of preparing and having a LTC application heard ranges from approx. ~\$50,000 to ~200,000, which is passed on to customers.
- While no cost-based threshold exists for electricity lines, there are a range of exemptions ensuring that LTC is only required for significant electricity projects. This proposal would help ensure that, consistent with electricity projects, LTC for hydrocarbon lines would only be

required for significant projects.

- Increasing the cost threshold to \$10M would closer align Ontario with other Canadian jurisdictions (e.g., in B.C., these thresholds are \$15M for electricity and \$20M for natural gas).

It was great to connect with you at AMO, and I'm eager to explore ways we can collaborate further and would appreciate if we can connect again. I would love to learn more about your vision and priorities for Uxbridge and further discuss potential strategies to move forward.

Thank you once again, I really enjoyed meeting you at the AMO conference. I'm looking forward to the prospect of working closely with you to achieve our shared goals.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

ENBRIDGE GAS INC.

500 Consumers Road, Toronto, ON, M2J 1P8
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From: [Dave Barton](#)
To: [Emily Elliott](#)
Cc: [Donna Popovic](#); [Nadine Messina](#)
Subject: [External] Re: Enbridge Gas Introduction Follow-Up
Date: Tuesday, August 29, 2023 6:41:10 PM

CAUTION! EXTERNAL SENDER

Were you expecting this email? TAKE A CLOSER LOOK. Is the sender legitimate?
DO NOT click links or open attachments unless you are 100% sure that the email is safe.

Hello Emily

Can you please put the details below into a resolution for the September 11 council meeting?
Thanks.

Dave Barton
Uxbridge Council

From: Donna Popovic <donna.popovic@enbridge.com>
Sent: Tuesday, August 29, 2023 4:11:22 PM
To: Dave Barton <dbarton@uxbridge.ca>
Subject: Enbridge Gas Introduction Follow-Up

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Mayor Barton,

I hope you're doing well. It was great to have the opportunity to meet you at the Enbridge reception during AMO last week and introduce myself as the new municipal and stakeholder engagement lead with Enbridge for the Town of Uxbridge.

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expectations for Indigenous consultation and environmental review for projects greater than \$2M and less than \$10M.

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 - Due to increased regulatory and cost pressures, as well as inflation, virtually all gas pipeline projects are now greater than \$2M rendering the threshold meaningless.
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- Modernizing these outdated regulations would reduce delays and costs for economic development initiatives including transit projects, community expansion projects, housing developments, connections for low carbon fuel blending (e.g. renewable natural gas, hydrogen) as well as residential and business customer connections:
 - Based on OEB's performance standards, this proposal would save approx. 5-7 months of regulatory process. The 5–7-month LTC is in addition to the time needed to undertake Indigenous consultation and environmental review and prepare an application to the OEB.
 - The cost of preparing and having a LTC application heard ranges from approx. ~\$50,000 to ~200,000, which is passed on to customers.
- While no cost-based threshold exists for electricity lines, there are a range of exemptions ensuring that LTC is only required for significant electricity projects. This proposal would help ensure that, consistent with electricity projects, LTC for hydrocarbon lines would only be required for significant projects.
- Increasing the cost threshold to \$10M would closer align Ontario with other Canadian jurisdictions (e.g., in B.C., these thresholds are \$15M for electricity and \$20M for natural gas).

It was great to connect with you at AMO, and I'm eager to explore ways we can collaborate further and would appreciate if we can connect again. I would love to learn more about your vision and priorities for Uxbridge and further discuss potential strategies to move forward.

Thank you once again, I really enjoyed meeting you at the AMO conference. I'm looking forward to the prospect of working closely with you to achieve our shared goals.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

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500 Consumers Road, Toronto, ON, M2J 1P8
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From: [Donna Popovic](#)
To: [Dave Barton](#)
Subject: RE: Enbridge Gas Introduction Follow-Up
Date: Wednesday, August 30, 2023 8:53:00 AM

Hi Mayor Barton,

Following up regarding the resolution to council, can you please provide me with more insight into proposed the resolution. I assume this may be a letter to address the LTC threshold and promote the issue with provincial members. Further insight will be helpful.

Happy to connect for a quick call anytime. I can be reached directly at 437-421-7356 or 416 704-4928.

Thanks.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

ENBRIDGE GAS INC.

500 Consumers Road, Toronto, ON, M2J 1P8
enbridgegas.com
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From: Dave Barton <dbarton@uxbridge.ca>
Sent: Tuesday, August 29, 2023 6:41 PM
To: Emily Elliott <eelliott@uxbridge.ca>
Cc: Donna Popovic <donna.popovic@enbridge.com>; Nadine Messina <nmessina@uxbridge.ca>
Subject: [External] Re: Enbridge Gas Introduction Follow-Up

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Hello Emily

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Uxbridge Council

From: Donna Popovic <donna.popovic@enbridge.com>
Sent: Tuesday, August 29, 2023 4:11:22 PM

To: Dave Barton <dbarton@uxbridge.ca>

Subject: Enbridge Gas Introduction Follow-Up

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Reducing red tape for more cost-effective, timely energy connections in Ontario

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donna.popovic@enbridge.com

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From: [Dave Barton](#)
To: [Donna Popovic](#)
Subject: [External] Re: Enbridge Gas Introduction Follow-Up
Date: Wednesday, August 30, 2023 11:17:00 AM

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Hi Donna,

We were just going to create one from your data in the below email. Do you have one already written that we can use?

Dave Barton
Uxbridge Council

From: Donna Popovic <donna.popovic@enbridge.com>
Sent: Wednesday, August 30, 2023 8:53:21 AM
To: Dave Barton <dbarton@uxbridge.ca>
Subject: RE: Enbridge Gas Introduction Follow-Up

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 - Based on OEB's performance standards, this proposal would save approx. 5-7 months of regulatory process. The 5–7-month LTC is in addition to the time needed to undertake Indigenous consultation and environmental review and prepare an application to the OEB.
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- Increasing the cost threshold to \$10M would closer align Ontario with other Canadian jurisdictions (e.g., in B.C., these thresholds are \$15M for electricity and \$20M for natural gas).

It was great to connect with you at AMO, and I'm eager to explore ways we can collaborate further and would appreciate if we can connect again. I would love to learn more about your vision and priorities for Uxbridge and further discuss potential strategies to move forward.

Thank you once again, I really enjoyed meeting you at the AMO conference. I'm looking forward to the prospect of working closely with you to achieve our shared goals.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

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From: [Donna Popovic](#)
To: [Dave Barton](#)
Subject: RE: Enbridge Gas Introduction Follow-Up
Date: Wednesday, August 30, 2023 6:48:00 PM

Hi Mayor Barton,

Yes, that's fine. Please use the information provided to draft a letter from the municipality. If possible, please share the letter with us for our reference prior to final reading.

Thanks.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

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From: Dave Barton <dbarton@uxbridge.ca>
Sent: Wednesday, August 30, 2023 11:17 AM
To: Donna Popovic <donna.popovic@enbridge.com>
Subject: [External] Re: Enbridge Gas Introduction Follow-Up

CAUTION! EXTERNAL SENDER

Were you expecting this email? TAKE A CLOSER LOOK. Is the sender legitimate?
DO NOT click links or open attachments unless you are 100% sure that the email is safe.

Hi Donna,

We were just going to create one from your data in the below email. Do you have one already written that we can use?

Dave Barton
Uxbridge Council

From: Donna Popovic <donna.popovic@enbridge.com>
Sent: Wednesday, August 30, 2023 8:53:21 AM
To: Dave Barton <dbarton@uxbridge.ca>
Subject: RE: Enbridge Gas Introduction Follow-Up

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Mayor Barton,

Following up regarding the resolution to council, can you please provide me with more insight into proposed the resolution. I assume this may be a letter to address the LTC threshold and promote the issue with provincial members. Further insight will be helpful.

Happy to connect for a quick call anytime. I can be reached directly at 437-421-7356 or 416 704-4928.

Thanks.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

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From: Dave Barton <dbarton@uxbridge.ca>
Sent: Tuesday, August 29, 2023 6:41 PM
To: Emily Elliott <eelliott@uxbridge.ca>
Cc: Donna Popovic <donna.popovic@enbridge.com>; Nadine Messina <nmessina@uxbridge.ca>
Subject: [External] Re: Enbridge Gas Introduction Follow-Up

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Hello Emily

Can you please put the details below into a resolution for the September 11 council meeting?

Thanks.

Dave Barton
Uxbridge Council

From: Donna Popovic <donna.popovic@enbridge.com>
Sent: Tuesday, August 29, 2023 4:11:22 PM
To: Dave Barton <dbarton@uxbridge.ca>
Subject: Enbridge Gas Introduction Follow-Up

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From: [Debbie Leroux](#)
To: [Donna Popovic](#)
Cc: [Emily Elliott](#)
Subject: [External] FW: Enbridge Gas Introduction Follow-Up
Date: Thursday, September 7, 2023 4:56:28 PM
Attachments: [image001.png](#)
[DRAFT} Resolution re Enbridge LTC.docx](#)

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Good Afternoon Donna

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I have attached the draft for your review. We would appreciate your input.

Thanks
Debbie

Debbie Leroux | Director of Legislative Services/Clerk/Deputy CAO

The Township of Uxbridge | P.O. Box 190, 51 Toronto St | Uxbridge, ON L9P 1T1
905-852-9181 x228 | dleroux@uxbridge.ca | <http://uxbridge.ca/>

From: Dave Barton <dbarton@uxbridge.ca>
Sent: Tuesday, August 29, 2023 6:41 PM
To: Emily Elliott <eelliott@uxbridge.ca>
Cc: Donna Popovic <donna.popovic@enbridge.com>; Nadine Messina <nmessina@uxbridge.ca>
Subject: Re: Enbridge Gas Introduction Follow-Up

Hello Emily
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Thanks.

Dave Barton
Uxbridge Council

From: Donna Popovic <donna.popovic@enbridge.com>

Sent: Tuesday, August 29, 2023 4:11:22 PM
To: Dave Barton <dbarton@uxbridge.ca>
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- While no cost-based threshold exists for electricity lines, there are a range of exemptions ensuring that LTC is only required for significant electricity projects. This proposal would help ensure that, consistent with electricity projects, LTC for hydrocarbon lines would only be required for significant projects.
- Increasing the cost threshold to \$10M would closer align Ontario with other Canadian jurisdictions (e.g., in B.C., these thresholds are \$15M for electricity and \$20M for natural gas).

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Thank you once again, I really enjoyed meeting you at the AMO conference. I'm looking forward to the prospect of working closely with you to achieve our shared goals.

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Public Affairs & Communications
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THE CORPORATION OF THE TOWNSHIP OF UXBRIDGE

RESOLUTION

RESOLUTION NO. **2023-0X**

DATE: **SEPTEMBER 11, 2023**

MOVED BY:

SECONDED BY:

WHEREAS a community development project by Enbridge Gas is in progress under Phase Two of the Natural Gas Expansion Support Program in the Hamlet of Sandford;

AND WHEREAS the Enbridge Gas has shared with the Township key messages regarding the Ontario Energy Board's Leave to Construct (LTC) process, entitled "reducing red tape for more cost-effective, timely energy connections in Ontario."

AND WHEREAS the Township supports and wishes to endorse the recommendations put forward by Enbridge Gas in order to expedite the installation of gas to small communities such as Uxbridge;

NOW THEREBE IT RESOLVED:

1. THAT the Township of Uxbridge petition the Ontario Government to expedite the implementation of the following recommendations:

i) THAT the Government of Ontario move to modernize the Ontario Energy Board's (OEB) Leave to Construct (LTC) process for smaller pipeline projects in order to bring reliable, affordable energy options to communities, homes and businesses in a more cost-effective and timely manner;

ii) AND THAT the LTC cost threshold be updated from \$2M to \$10M for hydrocarbon lines (by amending Ontario Regulation O.Reg.328/03) while maintaining current requirements and expectations for Indigenous consultation and environmental review for projects greater than \$2M and less than \$10M;

iii) AND THAT these outdated regulations are causing the LTC to apply far more broadly than intended when it was established over 20 years ago due to increased regulatory and cost pressures, as well as inflation, virtually all gas pipeline projects are now greater than \$2M rendering the threshold meaningless;

iv) AND THAT roughly 0.5 KM pipe in urban settings now often exceeds the \$2M threshold;

v) AND THAT modernizing these outdated regulations would reduce delays and costs for economic development initiatives including transit projects, community expansion projects, housing developments, connections for low carbon fuel blending (e.g., renewable natural gas, hydrogen) as well as residential and business customer connections;

vi) AND THAT based on OEB's performance standards, this proposal would save approx. 5-7 months of regulatory process which is in addition to the time needed to undertake Indigenous consultation and environmental review and prepare an application to the OEB;

vii) AND THAT the cost of preparing and having a LTC application heard ranges from approx. ~\$50,000 to ~\$200,000, which is passed on to customers;

viii) AND THAT while no cost-based threshold exists for electricity lines, there are a range of exemptions ensuring that LTC is only required for significant electricity projects and the proposed changes would help ensure that, consistent with electricity projects, LTC for hydrocarbon lines would only be required for significant projects;

ix) AND THAT increasing the cost threshold to \$10M would closer align Ontario with other Canadian jurisdictions (e.g., in B.C., these thresholds are \$15M for electricity and \$20M for natural gas);

2. AND THAT this resolution be circulated to AMO, Premier Doug Ford, the Minister of Energy, Todd Smith, The Minister of Finance, Peter Bethlenfalvy and all Durham Region Municipalities requesting support of the proposed changes regarding reducing red tape for more cost-effective, timely energy connections in Ontario.

MAYOR

From: [Donna Popovic](#)
To: [Debbie Leroux](#)
Cc: [Emily Elliott](#)
Subject: RE: Enbridge Gas Introduction Follow-Up
Date: Tuesday, September 12, 2023 9:10:00 AM
Attachments: [image002.png](#)

Good morning, Debbie,

Hope you're doing well. Thank you for sharing the draft resolution for our review. Our team has reviewed it and the resolution looks good.

The support from the municipality is very much appreciated on this issue. Please do not hesitate to contact me if you need any further information or input.

Thank you.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

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500 Consumers Road, Toronto, ON, M2J 1P8

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From: Debbie Leroux <dleroux@uxbridge.ca>
Sent: Thursday, September 7, 2023 4:55 PM
To: Donna Popovic <donna.popovic@enbridge.com>
Cc: Emily Elliott <elliott@uxbridge.ca>
Subject: [External] FW: Enbridge Gas Introduction Follow-Up

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DO NOT click links or open attachments unless you are 100% sure that the email is safe.

Good Afternoon Donna

Mayor Dave Barton passed along your information to us and the request for proposed changes to the Phase Two of the Natural Gas Expansion Support Program. Emily Elliott, Deputy Clerk has prepared a draft resolution and we were wondering if you would mind reviewing it for us to ensure that we are on the right page?

I have attached the draft for your review. We would appreciate your input.

Thanks
Debbie

Debbie Leroux | Director of Legislative Services/Clerk/Deputy CAO

The Township of Uxbridge | P.O. Box 190, 51 Toronto St | Uxbridge, ON L9P 1T1
905-852-9181 x228 | dleroux@uxbridge.ca | <http://uxbridge.ca/>

From: Dave Barton <dbarton@uxbridge.ca>
Sent: Tuesday, August 29, 2023 6:41 PM
To: Emily Elliott <eelliott@uxbridge.ca>
Cc: Donna Popovic <donna.popovic@enbridge.com>; Nadine Messina <nmessina@uxbridge.ca>
Subject: Re: Enbridge Gas Introduction Follow-Up

Hello Emily

Can you please put the details below into a resolution for the September 11 council meeting?
Thanks.

Dave Barton
Uxbridge Council

From: Donna Popovic <donna.popovic@enbridge.com>
Sent: Tuesday, August 29, 2023 4:11:22 PM
To: Dave Barton <dbarton@uxbridge.ca>
Subject: Enbridge Gas Introduction Follow-Up

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Hello Mayor Barton,

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From: [Debbie Leroux](#)
To: [Donna Popovic](#)
Cc: [Emily Elliott](#)
Subject: [External] Re: Enbridge Gas Introduction Follow-Up
Date: Tuesday, September 12, 2023 9:14:49 AM
Attachments: [image002.png](#)

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Excellent. Thank you Donna. Appreciate you reviewing this for us.

Debbie

Sent from my Bell Samsung device over Canada's largest network.

From: Donna Popovic <donna.popovic@enbridge.com>
Sent: Tuesday, September 12, 2023 9:10:50 AM
To: Debbie Leroux <dleroux@uxbridge.ca>
Cc: Emily Elliott <elliott@uxbridge.ca>
Subject: RE: Enbridge Gas Introduction Follow-Up

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From: Debbie Leroux <dleroux@uxbridge.ca>

Sent: Thursday, September 7, 2023 4:55 PM
To: Donna Popovic <donna.popovic@enbridge.com>
Cc: Emily Elliott <elliott@uxbridge.ca>
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From: [Donna Popovic](#)
To: [Dave Barton](#)
Subject: Enbridge - Sandford Social Media Post
Date: Monday, September 25, 2023 3:21:00 PM

Hello Mayor Barton,

Hope you are doing well. Our team is planning to put out a promotional social media post to Enbridge Gas' channels about the Sandford project. We would like to kindly ask if you may please reshare the post to your social media channels – Instagram and/or Facebook so it can reach Sandford residents.

For your reference, here is the draft text for the post, it will also include a stock image. Once the post goes out, I will send you the links, if you may please reshare it.

Draft SM post: *Tell your neighbours & friends! Sandford was selected for funding in Phase 2 of the Ontario government's Natural Gas Expansion Program. Visit [Sandford Community Expansion Project | Enbridge Gas](#) for updates on the project and to learn more about the benefits of natural gas. #NaturalGas #CommunityExpansion*

Thank you.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

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From: [Dave Barton](#)
To: [Donna Popovic](#)
Subject: [External] Re: Enbridge - Sandford Social Media Post
Date: Monday, September 25, 2023 3:39:08 PM

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Sure. No problem and we also passed the resolution today on the 2m to 10m item that you helped us with.

Dave Barton
Uxbridge Council

From: Donna Popovic <donna.popovic@enbridge.com>
Sent: Monday, September 25, 2023 3:21:32 PM
To: Dave Barton <dbarton@uxbridge.ca>
Subject: Enbridge - Sandford Social Media Post

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Mayor Barton,

Hope you are doing well. Our team is planning to put out a promotional social media post to Enbridge Gas' channels about the Sandford project. We would like to kindly ask if you may please reshare the post to your social media channels – Instagram and/or Facebook so it can reach Sandford residents.

For your reference, here is the draft text for the post, it will also include a stock image. Once the post goes out, I will send you the links, if you may please reshare it.

Draft SM post: *Tell your neighbours & friends! Sandford was selected for funding in Phase 2 of the Ontario government's Natural Gas Expansion Program. Visit [Sandford Community Expansion Project | Enbridge Gas](#) for updates on the project and to learn more about the benefits of natural gas. #NaturalGas #CommunityExpansion*

Thank you.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

ENBRIDGE GAS INC.

500 Consumers Road, Toronto, ON, M2J 1P8
enbridgegas.com
Safety. Integrity. Respect.

From: [Donna Popovic](#)
To: [Dave Barton](#)
Subject: RE: Enbridge - Sandford Social Media Post
Date: Wednesday, September 27, 2023 10:43:00 AM

Hello Mayor Barton,

Hope you're having a great week so far. Thanks again for your support of the Sandford Expansion Project. Below are the links to the social media posts from the Enbridge channels, we really appreciate you resharing the posts to reach Sandford residents.

[Enbridge Gas - Tell your neighbours and friends! Sandford was... | Facebook](#)

[\(1\) Enbridge Gas on X: "Tell your neighbours & friends! Sandford was selected for funding in Phase 2 of the Ontario government's Natural Gas Expansion Program. Visit <https://t.co/WbxiurPc9P> for updates on the project and to learn more about the benefits of natural gas. #NaturalGas #CommunityExpansion <https://t.co/UAqJjYoWpP>" / X \(twitter.com\)](#)

Thank you.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

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enbridgegas.com
Safety. Integrity. Respect.

From: Dave Barton <dbarton@uxbridge.ca>
Sent: Monday, September 25, 2023 3:39 PM
To: Donna Popovic <donna.popovic@enbridge.com>
Subject: [External] Re: Enbridge - Sandford Social Media Post

CAUTION! EXTERNAL SENDER

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Uxbridge Council

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Public Affairs & Communications
donna.popovic@enbridge.com

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enbridgegas.com
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From: [Dave Barton](#)
To: [Donna Popovic](#)
Subject: [External] Re: Enbridge - Sandford Social Media Post
Date: Wednesday, September 27, 2023 10:54:48 AM

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Done.

Dave Barton
Uxbridge Council

From: Donna Popovic <donna.popovic@enbridge.com>
Sent: Wednesday, September 27, 2023 10:43:39 AM
To: Dave Barton <dbarton@uxbridge.ca>
Subject: RE: Enbridge - Sandford Social Media Post

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Hello Mayor Barton,

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Thank you.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

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enbridgegas.com

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Uxbridge Council

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Thank you.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com



Dave Barton Mayor of Uxbridge Township



2m ·

This is an update from Enbridge Gas about the expansion to Sandford.



Enbridge Gas · Follow

44m ·

Tell your neighbours and friends! Sandford was selected for funding in Phase 2 of the Ontario government's Natural Ga... See more

Sandford Natural Gas Expansion



From: [Laura Rupprecht](#)
To: [Donna Popovic](#)
Cc: [Debbie Leroux](#); [Emily Elliott](#)
Subject: [External] Enbridge Gas - Phase 2 of the Natural Gas Expansion Support Program - Sandford
Date: Tuesday, October 3, 2023 3:45:12 PM
Attachments: [3279_001.pdf](#)

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Hi Donna!

Please see the attached correspondence regarding the above noted matter.

Thanks!



Laura Rupprecht
Clerk's Assistant
Township of Uxbridge
Phone: (905) 852 9181 Ext. 220
Web: uxbridge.ca

From: Township of Uxbridge <uxbridgetownship@uxbridge.ca>

Sent: Tuesday, October 3, 2023 3:42 PM

To: Laura Rupprecht <lrupprecht@uxbridge.ca>

Subject: Attached Image



The Corporation of the

Township of Uxbridge

In The Regional Municipality of Durham

Town Hall
51 Toronto Street South
P.O. Box 190
Uxbridge, ON L9P 1T1
Telephone (905) 852-9181
Facsimile (905) 852-9674
Web www.uxbridge.ca

SENT VIA E-MAIL

October 3, 2023

Donna Popovic
Public Affairs & Communications
Enbridge Gas Inc.
Toronto, Ontario
donna.popovic@enbridge.com

**RE: ENBRIDGE GAS – PHASE TWO OF THE NATURAL GAS EXPANSION
SUPPORT PROGRAM - SANDFORD
TOWNSHIP FILE: A-00 G**

Please be advised that during the regular meeting of Council of September 25, 2023, the following motion was carried:

WHEREAS a community development project by Enbridge Gas is in progress under Phase Two of the Natural Gas Expansion Support Program in the Hamlet of Sandford;

AND WHEREAS the Enbridge Gas has shared with the Township key messages regarding the Ontario Energy Board's Leave to Construct (LTC) process, entitled "reducing red tape for more cost-effective, timely energy connections in Ontario;"

AND WHEREAS the Township supports and wishes to endorse the recommendations put forward by Enbridge Gas in order to expedite the installation of gas to small communities such as Uxbridge.

NOW THEREBE IT RESOLVED:

1. THAT the Township of Uxbridge petition the Ontario Government to expedite the implementation of the following recommendations:
 1. i) THAT the Government of Ontario move to modernize the Ontario Energy Board's (OEB) Leave to Construct (LTC) process for smaller pipeline

projects in order to bring reliable, affordable energy options to communities, homes and businesses in a more cost-effective and timely manner;

2. ii) AND THAT the LTC cost threshold be updated from \$2M to \$10M for hydrocarbon lines (by amending Ontario Regulation O.Reg.328/03) while maintaining current requirements and expectations for Indigenous consultation and environmental review for projects greater than \$2M and less than \$10M;

iii) AND THAT these outdated regulations are causing the LTC to apply far more broadly than intended when it was established over 20 years ago due to increased regulatory and cost pressures, as well as inflation, virtually all gas pipeline projects are now greater than \$2M rendering the threshold meaningless;

1. iv) AND THAT roughly 0.5 KM pipe in urban settings now often exceeds the \$2M threshold;
2. v) AND THAT modernizing these outdated regulations would reduce delays and costs for economic development initiatives including transit projects, community expansion projects, housing developments, connections for low carbon fuel blending (e.g., renewable natural gas, hydrogen) as well as residential and business customer connections;
3. vi) AND THAT based on OEB's performance standards, this proposal would save approx. 5-7 months of regulatory process which is in addition to the time needed to undertake Indigenous consultation and environmental review and prepare an application to the OEB;

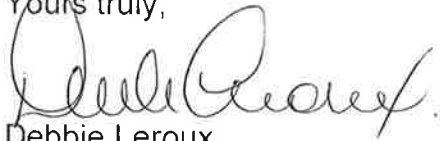
vii) AND THAT the cost of preparing and having a LTC application heard ranges from approx. ~\$50,000 to ~\$200,000, which is passed on to customers;

viii) AND THAT while no cost-based threshold exists for electricity lines, there are a range of exemptions ensuring that LTC is only required for significant electricity projects and the proposed changes would help ensure that, consistent with electricity projects, LTC for hydrocarbon lines would only be required for significant projects;

1. ix) AND THAT increasing the cost threshold to \$10M would closer align Ontario with other Canadian jurisdictions (e.g., in B.C., these thresholds are \$15M for electricity and \$20M for natural gas);
2. AND THAT this resolution be circulated to AMO, Premier Doug Ford, the Minister of Energy, Todd Smith, The Minister of Finance, Peter Bethlenfalvy and all Durham Region Municipalities requesting support of the proposed changes regarding reducing red tape for more cost-effective, timely energy connections in Ontario.

I trust you will find the above to be satisfactory.

Yours truly,



Debbie Leroux
Director of Legislative Services/Clerk

/ljr

cc: Premier Doug Ford
Honourable Todd Smith, Minister of Energy
Honourable Peter Bethlenfalvy, Minister of Finance
AMO
All Durham Municipalities

From: [Donna Popovic](#)
To: [Laura Rupprecht](#)
Cc: [Debbie Leroux](#); [Emily Elliott](#)
Subject: RE: Enbridge Gas - Phase 2 of the Natural Gas Expansion Support Program - Sandford
Date: Thursday, October 5, 2023 5:07:00 PM

Hi Laura,

This is fantastic! Thanks very much for sharing the final correspondence. Much appreciated!

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

ENBRIDGE GAS INC.

500 Consumers Road, Toronto, ON, M2J 1P8
enbridgegas.com
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From: Laura Rupprecht <lrupprecht@uxbridge.ca>
Sent: Tuesday, October 3, 2023 3:45 PM
To: Donna Popovic <donna.popovic@enbridge.com>
Cc: Debbie Leroux <dleroux@uxbridge.ca>; Emily Elliott <eelliott@uxbridge.ca>
Subject: [External] Enbridge Gas - Phase 2 of the Natural Gas Expansion Support Program - Sandford

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Hi Donna!

Please see the attached correspondence regarding the above noted matter.
Thanks!



Laura Rupprecht
Clerk's Assistant
Township of Uxbridge
Phone: (905) 852 9181 Ext. 220
Web: uxbridge.ca

From: Township of Uxbridge <uxbridgetownship@uxbridge.ca>
Sent: Tuesday, October 3, 2023 3:42 PM
To: Laura Rupprecht <lrupprecht@uxbridge.ca>
Subject: Attached Image

From: [Donna Popovic](#)
To: [Dave Barton](#)
Subject: Update: Sandford Natural Gas Expansion Project
Date: Wednesday, November 8, 2023 9:45:00 AM
Attachments: [Sandford LTC Letter of Support.docx](#)

Hello Mayor Barton,

I would like to provide you and Members of Council with an update regarding the Phase Two Natural Gas Expansion Support Program, Sandford Project.

As you know, this project was selected as part of the Ontario Government's Phase Two of the Natural Gas Expansion Support Program. Project funding was allocated to selected municipalities across Ontario to help expand access to natural gas services. This expansion will enable Enbridge Gas to facilitate the supply and distribution of affordable and sustainable natural gas to an additional estimated 183 residences and business in the Sandford community, where it would otherwise not be economically feasible to access the natural gas distribution system without this support.

For the Ontario Energy Board (OEB) to approve the Sandford Community Expansion project for construction a "Leave to Construct" (LTC) application is required. Working with the municipality and community members, Enbridge Gas submitted the LTC application to the OEB on August 16, 2023. As part of the OEB regulatory proceedings, intervenors submit requests for further evidence and examination to the need, scope, and requirements of the project. Last week, Enbridge Gas received Interrogatories from Pollution Probe as well as an Independent Participant, who similarly presented to Council on Monday October 16th regarding opposition to the Sandford Community Expansion Project.

Our team is currently working to provide Interrogatory Responses to the OEB by the November 16th deadline. To strengthen our responses and reinforce the need for Sanford residents to access a safe, accessible, and reliable option for their energy needs, we would like to request an updated letter of support from the Township of Uxbridge. For your reference and consideration, a draft letter is attached.

Please do not hesitate to contact me if you have any question or require further information. I am happy to coordinate with your office to set up a meeting and provide an addition project briefing, if required for your reference.

Thank you.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

ENBRIDGE GAS INC.

500 Consumers Road, Toronto, ON, M2J 1P8
enbridgegas.com

[PRINT ON MUNICIPAL LETTER HEAD]

November X, 2023

Re: Expression of Support for Natural Gas Expansion to Township of Uxbridge (Sandford)

In June of 2019 the Government of Ontario announced Phase 2 of the Natural Gas Expansion Program. Project funding was allocated to selected municipalities across Ontario to help expand access to natural gas services where it would not be economically feasible for the municipality to access the natural gas distribution system without this support. The Township of Uxbridge was one of the communities selected for project funding in the second phase of the Natural Gas Expansion Program.

On 16 August 2023 Enbridge Gas Inc. submitted a Leave-to-Construct (LTC) application to the Ontario Energy Board (OEB) for the Sandford Community Expansion Project. This project will provide residents, businesses, and industries located within the project area with access to a safe, accessible, and reliable option for their energy needs. Through the construction of approximately 13km of newly proposed natural gas distribution pipeline, this project will provide natural gas access to 183 forecasted households and businesses in our community. Council is looking forward to seeing this system expansion completed and the benefits it will bring to our community.

On behalf of the Council of the Township of Uxbridge, I would like to reinforce our support for the Sandford Community Natural Gas Expansion Project and the Enbridge Gas submission for the LTC application to the OEB by way of this letter.

Natural gas is the most common and reliable heating fuel in Ontario. The Township of Uxbridge supports the Natural Gas Expansion Program efforts of Enbridge Gas Inc. and the Ministry of Energy. We look forward to working together to expand natural gas access in our community to attract new opportunities, help create jobs and enable safe, accessible, and reliable energy options for more residents and business owners in our community.

Sincerely,

David Barton
Mayor, Township of Uxbridge

From: [Donna Popovic](#)
To: [Dave Barton](#)
Subject: RE: Update: Sandford Natural Gas Expansion Project
Date: Friday, November 17, 2023 1:42:00 PM
Attachments: [Sandford LTC Letter of Support.docx](#)

Hello Mayor Barton,

Hope you're doing well. I am following up on my previous update regarding the status of the Sandford project and our request for an updated letter of support from the Township of Uxbridge.

On November 16th, our team completed and submitted the required Interrogatory Responses to the OEB. We would still request an update letter of support for the Sandford project, as it would serve to strengthen our LTC application and reinforce the need for diversified energy options for residents in the region. Attached is a proposed draft letter for your consideration.

Please let me know if you wish to connect for a call. I am also happy to coordinate with your office to set up a meeting and provide an addition project briefing, if required for your reference.

Thank you.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
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donna.popovic@enbridge.com

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enbridgegas.com

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From: Donna Popovic
Sent: Wednesday, November 8, 2023 9:46 AM
To: Dave Barton <dbarton@uxbridge.ca>
Subject: Update: Sandford Natural Gas Expansion Project

Hello Mayor Barton,

I would like to provide you and Members of Council with an update regarding the Phase Two Natural Gas Expansion Support Program, Sandford Project.

As you know, this project was selected as part of the Ontario Government's Phase Two of the Natural Gas Expansion Support Program. Project funding was allocated to selected municipalities across Ontario to help expand access to natural gas services. This expansion will enable Enbridge Gas

to facilitate the supply and distribution of affordable and sustainable natural gas to an additional estimated 183 residences and business in the Sandford community, where it would otherwise not be economically feasible to access the natural gas distribution system without this support.

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[PRINT ON MUNICIPAL LETTER HEAD]

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Sincerely,

David Barton
Mayor, Township of Uxbridge

From: [Dave Barton](#)
To: [Donna Popovic](#)
Subject: [External] Letter of support.
Date: Friday, November 17, 2023 2:41:23 PM

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DO NOT click links or open attachments unless you are 100% sure that the email is safe.

Here you go.

Dave Barton
Uxbridge Council



The Corporation of the
**Township
of
Uxbridge**

In The Regional Municipality of Durham

Town Hall
51 Toronto Street South
P.O. Box 190
Uxbridge, ON L9P 1T1
Telephone (905) 852-9181
Facsimile (905) 852-9674
Web www.uxbridge.ca

November 17th, 2023

Re: Expression of Support for Natural Gas Expansion to Township of Uxbridge (Sandford)

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Sincerely,

Dave Barton
Mayor, Township of Uxbridge

From: [Donna Popovic](#)
To: [Dave Barton](#)
Subject: RE: Letter of support.
Date: Friday, November 17, 2023 2:45:00 PM

Hi Dave,

Thanks very much for the prompt response. Much appreciated. I will repay this our project team to add the Enbridge response files to the OEB. Would you possible have this as a PDF document?

Again, thanks very much, your support is immensely appreciated and encouraging!

Donna

From: Dave Barton <dbarton@uxbridge.ca>
Sent: Friday, November 17, 2023 2:41 PM
To: Donna Popovic <donna.popovic@enbridge.com>
Subject: [External] Letter of support.

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Here you go.

Dave Barton
Uxbridge Council

From: [Dave Barton](#)
To: [Donna Popovic](#)
Subject: [External] Fwd: Update: Sandford Natural Gas Expansion Project
Date: Friday, November 17, 2023 2:48:15 PM
Attachments: [image002.png](#)
[Sandford LTC Letter of Support.pdf](#)

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Dave Barton
Uxbridge Council

From: Nadine Messina <nmessina@uxbridge.ca>
Sent: Friday, November 17, 2023 2:28 PM
To: Dave Barton <dbarton@uxbridge.ca>
Subject: RE: Update: Sandford Natural Gas Expansion Project

Here you go!



Nadine Messina, B.Comm
Project and Contract Administrator
Township of Uxbridge

Phone: (905) 852 9181 xt. 202
Email: nmessina@uxbridge.ca
Web: uxbridge.ca

From: Donna Popovic <donna.popovic@enbridge.com>
Sent: Friday, November 17, 2023 1:42:18 PM
To: Dave Barton <dbarton@uxbridge.ca>
Subject: RE: Update: Sandford Natural Gas Expansion Project

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Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
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500 Consumers Road, Toronto, ON, M2J 1P8

enbridgegas.com

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From: Donna Popovic

Sent: Wednesday, November 8, 2023 9:46 AM

To: Dave Barton <dbarton@uxbridge.ca>

Subject: Update: Sandford Natural Gas Expansion Project

Hello Mayor Barton,

I would like to provide you and Members of Council with an update regarding the Phase Two Natural Gas Expansion Support Program, Sandford Project.

As you know, this project was selected as part of the Ontario Government's Phase Two of the Natural Gas Expansion Support Program. Project funding was allocated to selected municipalities across Ontario to help expand access to natural gas services. This expansion will enable Enbridge Gas to facilitate the supply and distribution of affordable and sustainable natural gas to an additional estimated 183 residences and business in the Sandford community, where it would otherwise not be economically feasible to access the natural gas distribution system without this support.

For the Ontario Energy Board (OEB) to approve the Sandford Community Expansion project for construction a "Leave to Construct" (LTC) application is required. Working with the municipality and community members, Enbridge Gas submitted the LTC application to the OEB on August 16, 2023. As part of the OEB regulatory proceedings, intervenors submit requests for further evidence and examination to the need, scope, and requirements of the project. Last week, Enbridge Gas received Interrogatories from Pollution Probe as well as an Independent Participant, who similarly presented to Council on Monday October 16th regarding opposition to the Sandford Community Expansion Project.

Our team is currently working to provide Interrogatory Responses to the OEB by the November 16th deadline. To strengthen our responses and reinforce the need for Sanford residents to access a safe, accessible, and reliable option for their energy needs, we would like to request an updated letter of support from the Township of Uxbridge. For your reference and consideration, a draft letter is attached.

Please do not hesitate to contact me if you have any question or require further information. I am happy to coordinate with your office to set up a meeting and provide an addition project briefing, if required for your reference.

Thank you.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

ENBRIDGE GAS INC.

500 Consumers Road, Toronto, ON, M2J 1P8
enbridgegas.com
Safety. Integrity. Respect.



The Corporation of the

**Township
of
Uxbridge**

In The Regional Municipality of Durham

Town Hall
51 Toronto Street South
P.O. Box 190
Uxbridge, ON L9P 1T1
Telephone (905) 852-9181
Facsimile (905) 852-9674
Web www.uxbridge.caNovember 17th, 2023**Re: Expression of Support for Natural Gas Expansion to Township of Uxbridge (Sandford)**

In June of 2019 the Government of Ontario announced Phase 2 of the Natural Gas Expansion Program. Project funding was allocated to selected municipalities across Ontario to help expand access to natural gas services where it would not be economically feasible for the municipality to access the natural gas distribution system without this support. The Township of Uxbridge was one of the communities selected for project funding in the second phase of the Natural Gas Expansion Program.

On 16 August 2023 Enbridge Gas Inc. submitted a Leave-to-Construct (LTC) application to the Ontario Energy Board (OEB) for the Sandford Community Expansion Project. This project will provide residents, businesses, and industries located within the project area with access to a safe, accessible, and reliable option for their energy needs. Through the construction of approximately 13km of newly proposed natural gas distribution pipeline, this project will provide natural gas access to 183 forecasted households and businesses in our community. Council is looking forward to seeing this system expansion completed and the benefits it will bring to our community.

On behalf of the Council of the Township of Uxbridge, I would like to reinforce our support for the Sandford Community Natural Gas Expansion Project and the Enbridge Gas submission for the LTC application to the OEB by way of this letter.

Natural gas is the most common and reliable heating fuel in Ontario. The Township of Uxbridge supports the Natural Gas Expansion Program efforts of Enbridge Gas Inc. and the Ministry of Energy. We look forward to working together to expand natural gas access in our community to attract new opportunities, help create jobs and enable safe, accessible, and reliable energy options for more residents and business owners in our community.

Sincerely,

Dave Barton
Mayor, Township of Uxbridge

From: [Donna Popovic](#)
To: [Dave Barton](#)
Subject: RE: Update: Sandford Natural Gas Expansion Project
Date: Friday, November 17, 2023 2:48:00 PM
Attachments: [image001.png](#)

Brilliant! Thank you!

Have a great weekend.

From: Dave Barton <dbarton@uxbridge.ca>
Sent: Friday, November 17, 2023 2:48 PM
To: Donna Popovic <donna.popovic@enbridge.com>
Subject: [External] Fwd: Update: Sandford Natural Gas Expansion Project

CAUTION! EXTERNAL SENDER

Were you expecting this email? TAKE A CLOSER LOOK. Is the sender legitimate?
DO NOT click links or open attachments unless you are 100% sure that the email is safe.

Dave Barton
Uxbridge Council

From: Nadine Messina <nmessina@uxbridge.ca>
Sent: Friday, November 17, 2023 2:28 PM
To: Dave Barton <dbarton@uxbridge.ca>
Subject: RE: Update: Sandford Natural Gas Expansion Project

Here you go!



Nadine Messina, B.Comm
Project and Contract Administrator
Township of Uxbridge

Phone: (905) 852 9181 xt. 202
Email: nmessina@uxbridge.ca
Web: uxbridge.ca

From: Donna Popovic <donna.popovic@enbridge.com>
Sent: Friday, November 17, 2023 1:42:18 PM
To: Dave Barton <dbarton@uxbridge.ca>
Subject: RE: Update: Sandford Natural Gas Expansion Project

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Mayor Barton,

Hope you're doing well. I am following up on my previous update regarding the status of the Sandford project and our request for an updated letter of support from the Township of Uxbridge.

On November 16th, our team completed and submitted the required Interrogatory Responses to the OEB. We would still request an update letter of support for the Sandford project, as it would serve to strengthen our LTC application and reinforce the need for diversified energy options for residents in the region. Attached is a proposed draft letter for your consideration.

Please let me know if you wish to connect for a call. I am also happy to coordinate with your office to set up a meeting and provide an addition project briefing, if required for your reference.

Thank you.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

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enbridgegas.com

Safety. Integrity. Respect. Inclusion. High Performance.

From: Donna Popovic

Sent: Wednesday, November 8, 2023 9:46 AM

To: Dave Barton <dbarton@uxbridge.ca>

Subject: Update: Sandford Natural Gas Expansion Project

Hello Mayor Barton,

I would like to provide you and Members of Council with an update regarding the Phase Two Natural Gas Expansion Support Program, Sandford Project.

As you know, this project was selected as part of the Ontario Government's Phase Two of the Natural Gas Expansion Support Program. Project funding was allocated to selected municipalities across Ontario to help expand access to natural gas services. This expansion will enable Enbridge Gas to facilitate the supply and distribution of affordable and sustainable natural gas to an additional estimated 183 residences and business in the Sandford community, where it would otherwise not be economically feasible to access the natural gas distribution system without this support.

For the Ontario Energy Board (OEB) to approve the Sandford Community Expansion project for

construction a “Leave to Construct” (LTC) application is required. Working with the municipality and community members, Enbridge Gas submitted the LTC application to the OEB on August 16, 2023. As part of the OEB regulatory proceedings, intervenors submit requests for further evidence and examination to the need, scope, and requirements of the project. Last week, Enbridge Gas received Interrogatories from Pollution Probe as well as an Independent Participant, who similarly presented to Council on Monday October 16th regarding opposition to the Sandford Community Expansion Project.

Our team is currently working to provide Interrogatory Responses to the OEB by the November 16th deadline. To strengthen our responses and reinforce the need for Sanford residents to access a safe, accessible, and reliable option for their energy needs, we would like to request an updated letter of support from the Township of Uxbridge. For your reference and consideration, a draft letter is attached.

Please do not hesitate to contact me if you have any question or require further information. I am happy to coordinate with your office to set up a meeting and provide an addition project briefing, if required for your reference.

Thank you.

Donna Popovic

Sr Advisor, Municipal and Stakeholder Engagement, GTA East Region
Public Affairs & Communications
donna.popovic@enbridge.com

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Municipal Engagement – Consultation Log

Township of Uxbridge					
Line Item	Date	Method	Summary of Enbridge Gas Inc. (“Enbridge Gas”) Engagement Activity	Summary of Community’s Engagement Activity	Issues or Concerns raised and how addressed by Enbridge Gas including any substantive Attachments
1	February 20, 2020	Email	Enbridge Gas Representative reached out to Mayor Barton to invite an expression of interest for a proposed project in the Township of Uxbridge.		
2	June 24, 2020	Email		The Township of Uxbridge provided Enbridge Gas representative with an expression of support and resolution for natural gas expansion to Sanford.	
3	June 10, 2021	Letter	Enbridge Gas Representative reached out to Mayor Barton to inform of selection of the Sanford Project with funding assistance		
4	August 13, 2021	Event	Enbridge Gas participated in a Sanford natural gas expansion launch event with Energy Minister Todd Smith and Mayor Barton.		
5	August 17, 2021	Email	Enbridge Gas emailed Mayor Barton regarding project selection		
6	April 4, 2022	Email		Mayor Barton reached out to Enbridge requesting an update on the project and specifically the route selection.	

7	April 12, 2022	Email	Enbridge Gas Representative reached out to Mayor Barton and Councilor Garrod with a project update and to answer questions related to project planning, community engagement and the leave-to-construct process.		
8	April 21, 2022	Email		Councilor Garrod reached out to Enbridge with follow up questions regarding the project route.	
9	April 26, 2022	Email	Enbridge Gas Representative responded with an update that we will engage with the community through a variety of outreach activities and shared the proposed map of the project.		
10	March 13, 2023	Email	Enbridge Gas Representative issued notification of commencement to Mayor Barton, and members of council, which included information related to the project and details for the virtual information session. This notification was issued to Councilors Beach, Garrod, Shreeve, Pickering and Nooks. In this email, the Enbridge Representative requested a meeting with council to present on the project. No response received.		Deputy Mayor Popp was missed on this communication in error.
11	July 24, 2023	Email	Enbridge Gas Representative reached out to Mayor Barton to provide an update on the leave-to-construct application.		

12	August 21, 2023	Event / in-person conversation at AMO	Enbridge Gas Representative spoke with councilor Bruce Garrod regarding Sanford expansion project. Enbridge Gas representative offered to come provide a project update at council.		
13	August 29, 2023	Email	Enbridge Gas Representative followed up with Mayor Barton regarding a LTC discussion had at the AMO Conference in London, ON. In the email, provided suggested key messages regarding the LTC threshold modernization. Requested if the municipality would consider putting forth a resolution in favour of this advocacy as it relates to the Sandford Community Expansion Project. .		
14	August 29, 2023	Email		Mayor Barton forwarded LTC modernization advocacy request to municipal staff to prepare a resolution for the September 11 th Council meeting.	
15	August 30, 2023	Email	Enbridge Gas Representative followed up with Mayor Barton regarding the LTC modernization, requested more insight into format of the proposed resolution.		
16	August 30, 2023	Email		Mayor Barton responded to inform the Enbridge Representative Council will use the key messaging provided. Inquired if Enbridge had a written draft Council	

				may review for reference.	
17	August 30, 2023	Email	Enbridge Gas Representative responded to Mayor Barton to confirm the use of information provided to draft a letter from the municipality. If possible, please share the letter with Enbridge for reference prior to final reading.		
18	September 7, 2023	Email		Township of Uxbridge municipal staff provided Enbridge Representative with a copy of the draft resolution to review.	
19	September 12, 2023	Email	Enbridge Gas Representative responded to Township of Uxbridge municipal staff to confirm the reviewed resolution and offer further information or input if require on this issue.		
20	September 12, 2023	Email		Township of Uxbridge municipal staff responded to confirm draft resolution.	
21	September 25, 2023	Email	Enbridge Gas Representative reached out to Mayor Barton to request a social media post about the Sandford Community Expansion Project be reshared to X (formerly Twitter) /Instagram to reach Sandford residents.		
22	September 25, 2023	Email		Mayor Barton responded in favour of resharing project information on his social media channels for residents of Sandford Township.	
23	September 27, 2023		Enbridge Gas Representative provided		

			Mayor Barton with links to social media post to be reshared.		
24	September 27, 2023			Mayor Barton responded to confirm social media reshared on X (formerly Twitter).	
25	October 3, 2023			Township of Uxbridge municipal staff provided Enbridge Representative with addressed correspondence regarding the resolution passed by Municipal Council for Enbridge Gas – Phase Two of the Natural Gas Support Program - OEB LTC process modernization.	
26	October 5, 2023		Enbridge Gas representative responded to Uxbridge municipal staff to confirm receipt of Council Resolution.		
27	November 8, 2023	Email	Enbridge Representative sent project status update to Mayor Barton and requested an updated letter of support for the Sandford Community Expansion Project.		
28	November 17, 2023	Email	Enbridge Gas representative sent a follow up request to Mayor Barton for a letter of support for the Sandford Community Expansion Project.		
29	November 17, 2023	Email		Mayor Barton replied with copy of the support letter (in JPEG format).	
30	November 17, 2023	Email	Enbridge Gas Representative responded to Mayor Barton's e-mail to request a PDF copy.		
31	November 17, 2023	Email		Mayor Barton responded to Enbridge	

				Gas's e-mail and included a PDF copy of the support letter.	
32	November 17, 2023	Email	Enbridge Gas representative responded to confirm receipt.		

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1

Question(s):

- a) Please complete the following table to confirm which of the following facts were communicated to the Township of Uxbridge (and for any that were communicated, please provide the communication including a pinpoint reference to where that fact is contained)

Information Communicated to the Township of Uxbridge		
Information	Whether communicated to the city (Y/N)	If no, why not; if yes, where & when
(i) That the federal government is offering \$5,000 rebates for customers to switch to high-efficiency electric heat pumps, which are not available for gas furnaces. ¹		
(ii) That the federal government is offering an <i>additional</i> \$5,000 in rebates for customers to switch from oil to high-efficiency electric heat pumps if they earn a median income or lower (e.g. \$122,000 after-tax income for a family of 4 in Ontario) through the Oil to Heat Pump Affordability Program. ²		
(iii) That the federal government is now providing up to \$40,000 in interest free loans, which can be put towards conversions to electric heat pumps, and not gas equipment, through the Greener Homes Loan. ³		
(iv) That heat pumps could save a customer approximately \$1,200 in annual heating costs versus a gas		

¹ EB-2022-0249, Exhibit I.ED.20 & Exhibit I.ED.5.

² EB-2022-0249, Exhibit I.ED.20 & Exhibit I.ED.5.

³ EB-2022-0249, Exhibit I.ED.20 & Exhibit I.ED.5.

	furnace for a house with a moderate heat load (or whatever Enbridge's estimated savings are). ⁴		
(v)	That Enbridge may charge customers for a connection depending on the distance of the building from the road.		
(vi)	That heat pumps result in lower annual energy costs compared to traditional gas equipment for home heating		
(vii)	That heat pumps significantly reduce summer cooling costs.		
(viii)	That natural gas is a potent greenhouse gas and its combustion generates approximately 1/3 rd of Ontario's greenhouse gas emissions. ⁵		
(ix)	That heat pumps result in far less greenhouse gas emissions than gas furnaces. ⁶		

Response:

a) The “facts/statements” provided by ED within the interrogatory are over-simplifications, inaccurate, and omit other important considerations and therefore could be misleading. For example, ED identifies annual operating costs of electric heat pumps and the rebates available to offset upfront capital costs of electric heat pumps but ignores information regarding upfront capital costs of electric heat pumps. As with any capital investment, upfront capital costs are an important consideration, not just annual operating costs. Enbridge Gas does not necessarily accept the statements made by ED as complete/accurate representations of the information. Enbridge Gas is not responding to the validity or accuracy of ED’s statements and is rather providing responses to the direct questions posed by ED. Enbridge Gas did not communicate the statements because the Township of Uxbridge did not request information from Enbridge Gas regarding non-natural gas solutions.

⁴ EB-2022-0249, Exhibit I.ED.16, Attachment 7, Ottawa, 4 Ton Heating Load, “Cost savings” row, averaged; EB-2022-0249, Exhibit I.ED.5.

⁵ EB-2022-0249, Exhibit I.ED.5.

⁶ *Ibid.*

Information Communicated to the Township of Uxbridge		
Information	Whether communicated to the city (Y/N)	If no, why not; if yes, where & when
(i) That the federal government is offering \$5,000 rebates for customers to switch to high-efficiency electric heat pumps, which are not available for gas furnaces. ⁷	No	The Township of Uxbridge did not request information from Enbridge Gas regarding non-natural gas solutions which the Company cannot provide via the Project.
(ii) That the federal government is offering an <i>additional</i> \$5,000 in rebates for customers to switch from oil to high-efficiency electric heat pumps if they earn a median income or lower (e.g. \$122,000 after-tax income for a family of 4 in Ontario) through the Oil to Heat Pump Affordability Program. ⁸	No	The Township of Uxbridge did not request information from Enbridge Gas regarding non-natural gas solutions which the Company cannot provide via the Project.
(iii) That the federal government is now providing up to \$40,000 in interest free loans, which can be put towards conversions to electric heat pumps, and not gas equipment, through the Greener Homes Loan. ⁹	No	The Township of Uxbridge did not request information from Enbridge Gas regarding non-natural gas solutions which the Company cannot provide via the Project.
(iv) That heat pumps could save a customer approximately \$1,200 in annual heating costs versus a gas furnace for a house with a moderate heat load (or whatever Enbridge's estimated savings are). ¹⁰	No	The Township of Uxbridge did not request information from Enbridge Gas regarding non-natural gas solutions which the Company cannot provide via the Project.

⁷ EB-2022-0249, Exhibit I.ED.20 & Exhibit I.ED.5.

⁸ EB-2022-0249, Exhibit I.ED.20 & Exhibit I.ED.5.

⁹ EB-2022-0249, Exhibit I.ED.20 & Exhibit I.ED.5.

¹⁰ EB-2022-0249, Exhibit I.ED.16, Attachment 7, Ottawa, 4 Ton Heating Load, "Cost savings" row, averaged; EB-2022-0249, Exhibit I.ED.5.

Information Communicated to the Township of Uxbridge		
Information	Whether communicated to the city (Y/N)	If no, why not; if yes, where & when
(v) That Enbridge may charge customers for a connection depending on the distance of the building from the road.	No	Comprehensive information is readily available on the Enbridge Gas community expansion website, including information regarding the extra length charge under the FAQ section: 'What does it cost to install a natural gas pipeline to connect my home?'. Community Expansion Frequently Asked Questions Enbridge Gas ¹¹
(vi) That heat pumps result in lower annual energy costs compared to traditional gas equipment for home heating	No	The Township of Uxbridge did not request information from Enbridge Gas regarding non-natural gas solutions which the Company cannot provide via the Project.
(vii) That heat pumps significantly reduce summer cooling costs.	No	The Township of Uxbridge did not request information from Enbridge Gas regarding non-natural gas solutions which the Company cannot provide via the Project.
(viii) That natural gas is a potent greenhouse gas and its combustion generates approximately 1/3 rd of Ontario's greenhouse gas emissions. ¹²	No	The Township of Uxbridge did not request information from Enbridge Gas regarding Ontario's greenhouse gas emissions.
(ix) That heat pumps result in far less greenhouse gas emissions than gas furnaces. ¹³	No	The Township of Uxbridge did not request information from Enbridge Gas regarding non-natural gas solutions which the Company cannot provide via the Project.

¹¹ <https://www.enbridgegas.com/residential/new-customers/community-expansion/faq>

¹² EB-2022-0249, Exhibit I.ED.5.

¹³ *Ibid.*

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1

Question(s):

- a) Please provide all communications to and from the Regional Municipality of Durham regarding the project, including all communications to the Regional Municipality of Durham describing the benefits (e.g. letters, presentations, etc.).
- b) Please provide a list of all meetings with staff and elected officials from the Regional Municipality of Durham and the meeting notes and materials for each.
- c) Please provide a copy of the “Final Guidelines for Potential Projects to Expand Access to Natural Gas Distribution” and the related section 35 letter from the Minister.
- d) The OEB Guidelines referred to above state that applicants must: “Provide letter(s) from the Band Council(s) and/or local government, as applicable, stating support for the project, including details of any commitment to financial support.” Was a support letter requested from the Regional Municipality of Durham?
- e) If a support letter was not sought from the Regional Municipality of Durham, please explain why, including with reference to any documentary support for Enbridge’s contention that the Regional Municipality of Durham does not count as a “local government” within the meaning of the Guidelines

Response:

- a) The Regional Municipality of Durham was provided a Notice of Study Commencement and Virtual Open House on March 10, 2023 and a copy of the Environmental Report on June 1, 2023. Please refer to Appendix F3 of the

Environmental Report at Attachment 1 to Exhibit F, Tab 1, Schedule 1 for a copy of the Notice of Study Commencement and Virtual Open House.

The Regional Municipality of Durham did not provide any response in regards to the aforementioned Notice and Environmental Report.

- b) Please refer to Attachment 1 to this response for a list of municipal engagements.
- c) The “Final Guidelines for Potential Projects to Expand Access to Natural Gas Distribution”¹ report prepared by the OEB can be found at Attachment 2 to this response. The related Section 35 letter from the Minister² is included at Attachment 3 to this response.
- d) The OEB Guidelines stated that support letters would be considered by the OEB when reviewing projects. A support letter was not requested from the Regional Municipality of Durham when preparing the Natural Gas Expansion Program submission for the Sandford Project.
- e) Please see the response to part d). Enbridge Gas’s focus was on receiving a letter of support from the lower-tier municipality and did not request a support letter from the Regional Municipality of Durham when preparing the Natural Gas Expansion Program submission for the Sandford Project. Enbridge Gas has been working with the Regional Municipality of Durham’s Planning Team to discuss the proposed project’s design plans, installation requirements and municipal consent.

Please see Attachment 2 to Exhibit B, Tab 1, Schedule 1 for the letter of support received from the Township of Uxbridge.

¹ <https://www.oeb.ca/sites/default/files/ltr-final-guidelines-gas-expansion-20200305.pdf>

² <https://www.oeb.ca/sites/default/files/Letter-to-OEB-natural-gas-expansion-20191212.pdf>

DURHAM REGION CORRESPONDENCE LOG					
Item	Date	Method	Summary of Enbridge Gas Inc. ("Enbridge Gas") Engagement Activity	Summary of Community's Engagement Activity	Issues or Concerns raised and how addressed by Enbridge Gas including any substantive Attachments
1	20-Jun-23	E-mail	Enbridge Gas Project Lead reached out to Durham Permitting and Planning Representative to request initial meeting to introduce the proposed project.	Durham Region Permitting and Planning Representative provided availability for meeting, as well as team members to include in upcoming meeting with the Sandford Project Team	
2	5-Jul-23	MS Teams Meeting	Enbridge Gas conducted project kick-off for proposed work and introduced the project team	Introduced Durham Region team and representatives that would be accountable for the Sandford Project.	Region requested copies of the drawings, when they became available, in order for them to review and provide commentary and feedback.
2	5-Jul-23	MS Teams Meeting	Enbridge Gas Project Lead reached out to Durham Region following kick-off meeting.		Provided copy of project kick-off presentation slides to Durham Region for reference on project scope, timelines, and Enbridge project team contacts
3	16-Aug-23	E-mail	Enbridge Gas provided update on project status to Durham Region, including drawings, as requested from previous meeting. Requested up follow-up meeting to discuss feedback Durham Region may have on the drawings		Attached drawings as discussed in previous meetings for Durham Region review
4	18-Aug-23	E-mail		Durham Region responded to confirm availability for follow-up meeting to discuss feedback on drawings	
5	28-Aug-23	MS Teams Meeting			
6	28-Aug-23	E-mail		Durham region followed-up after meeting to share marked up version of construction drawing containing comments discussed in the meeting.	
7	30-Aug-23	E-mail		Durham Region e-mailed Enbridge project team regarding concerns along one segment of the pipe alignment and offset.	Enbridge Gas consulted with Alliance Partner to address constructability concerns raised by Durham region and proposed site visit with Alliance Partner and Durham Region
8	8-Sep-23	E-mail	Enbridge Gas reached out to Durham Region in attempt to coordinate site visit.	Durham Region confirmed availability and interest to continue discussion regarding previous concerns with Alliance Partner and Enbridge Gas at the project site in Sandford.	
9	12-Sep-23	MS Teams Calendar Item	Continued coordination between Enbridge Gas and Durham Region for site visit in Sandford Community.		Enbridge Gas sent a calendar item to Durham Region for Site Visit, confirmed for September 14, 2023
10	14-Sep-23	Site Visit in Sandford	Enbridge Gas hosted a site visit with Durham Region and Alliance Partner to discuss alignment and offset raised in previous communications.		
11	22-Sep-23	E-mail		Durham Region followed-up via e-mail after the site visit to reiterate discussion points from site meeting with additional comments.	
12	25-Sep-23	E-mail	Enbridge Gas reached out to Durham Region to coordinate a follow-up meeting in response to Durham Region's e-mail and comments from September 22, 2023		
13	26-Sep-23	E-mail		Durham Region provided availability for a meeting.	
14	2-Oct-23	MS Teams Calendar Item			Enbridge Gas sent a calendar item to Durham Region to book a meeting, confirmed for October 10, 2023.
15	10-Oct-23	MS Teams Meeting	Enbridge Gas hosted a meeting to discuss comments from Durham Region's e-mail on September 22, 2023.		Enbridge Gas and Durham Region aligned on discussion items. Enbridge Gas to revise drawings with offsets as discussed.
16	6-Nov-23	E-mail		Durham Region e-mailed Enbridge Gas regarding Municipal Consent Application Requirements and suggested revisions.	
17	11-Nov-23	E-mail	Enbridge Gas e-mailed Durham Region to provide an update on the Municipal Consent Application and agreed to make revisions as suggested by Durham Region on November 6, 2023		



BY E-MAIL AND WEB POSTING

March 5, 2020

**TO: All Participants in the Consultation on the Draft Guidelines for Potential Projects to Expand Access to Natural Gas
All Other Interested Parties**

**RE: Potential Projects to Expand Access to Natural Gas Distribution
Ontario Energy Board File No. EB-2019-0255**

The Ontario Energy Board (OEB) has today issued its Final Guidelines for Potential Projects to Expand Access to Natural Gas Distribution (Final Guidelines), which are attached as Appendix A to this letter. The Final Guidelines have been informed by and benefitted from stakeholder comments on the Draft Guidelines for Potential Projects to Expand Access to Natural Gas Distribution (Draft Guidelines) that were issued for comment on December 19, 2019.

Interested project proponents that wish to file project information for inclusion in the OEB's report to the Ministry of Energy, Northern Development and Mines (Ministry) must do so by June 3, 2020 in accordance with the Final Guidelines.

On December 12, 2019, the OEB received a [letter](#) (Section 35 Letter) from the Minister of Energy, Northern Development and Mines and the Associate Minister of Energy under section 35 of the *Ontario Energy Board Act, 1998* (OEB Act) asking the OEB to collect and analyze information about possible natural gas expansion projects with a focus on assessing whether the projects can be implemented substantially as proposed. The OEB is expected to report back to the Ministry by August 31, 2020 (Report), and this Report will serve as an input to assist the government in making a determination on future expansion projects.

The Section 35 Letter also expresses the government's intention to further increase access to natural gas by making additional new projects eligible for ratepayer funded financial support totaling approximately \$130 million, using the mechanism set out in Ontario Regulation 24/19, Expansion of Natural Gas Distribution Systems made under section 36.2 of the OEB Act. Changes to that Regulation will be required to enable the provision of ratepayer-funded financial support for any such projects.

The Section 35 Letter identifies the following as matters to be considered by the OEB in undertaking this initiative:

- The number of customers (in terms of customer count, volume of gas to be distributed and customer type) that would be connected by each proposed project.
- The total cost of each proposed project, as well as the dollar amount of support needed for each proposed project to meet the OEB's profitability threshold.
- The proposed construction start date and construction period for each proposed project, as the provincial government's focus is on projects that can reasonably be expected to start construction by 2023, allowance being made for the timelines typically applicable to the process of obtaining regulatory approvals.
- The project proponent's demonstrated experience, technical expertise and financial ability to build and operate a natural gas distribution system.
- Support for the proposed project from Band Council(s) and/or local government, as applicable, demonstrated through a written expression of support and/or a commitment to financial support.
- If a proposed project is in an area where a Certificate of Public Convenience and Necessity (Certificate) exists, the proponent must be the Certificate holder unless the Certificate holder does not propose a project for the area.
- The extent to which the project proponent expects that the proposed project would reduce the household energy cost burden in the project area.

As set out in the Section 35 Letter, the OEB is expected to apply its expertise in undertaking this initiative. Given the focus on assessing whether potential projects can be implemented substantially as proposed, the following are the key additional considerations that are included in the Final Guidelines, some of which have been revised relative to the Draft Guidelines in response to stakeholder comments:

-
- A ten-year rate stability period for each proposed project in order to demonstrate, as required by the Section 35 Letter, a commitment to be held to the project costs and volume forecast set out in the project information provided to the OEB.
 - A schedule for applying for any OEB approvals and identification of the date by which each is required in order to meet the proposed in-service date.
 - The estimated annual distribution charges that are expected to be borne by residential customers to be connected by each proposed project.
 - The estimated revenue requirement over the ten-year rate stability period and the capital costs and rate base at the end of the rate stability period.

OEB Consideration of Stakeholder Comments

Twenty-one stakeholders submitted comments in response to the OEB's December 19, 2019 letter, including natural gas distributors, compressed natural gas (CNG) and liquefied natural gas (LNG) service providers, ratepayer groups, industry associations, environmental groups and groups representing Indigenous peoples. Most stakeholders submitted comments on the Draft Guidelines, with relatively few comments submitted on the three additional issues on which the OEB also invited comment in that letter:

- The sufficiency of the 90-day window to submit project information.
- Confidentiality of information that may be contained in project information filed by interested project proponents based on the Draft Guidelines.
- Two alternative options for addressing the requirement in the Section 35 Letter that a proponent must be the holder of the Certificate unless the Certificate holder does not propose a project for the area.

Below is an overview of the many issues raised in the stakeholder comments, and the OEB's consideration of them. In considering stakeholder comments, the OEB has been mindful that the intention underlying the Section 35 Letter is to facilitate access to natural gas distribution systems for communities that are not currently connected to such a system. The OEB has also been mindful that its Report is expected to be provided to the Ministry by August 31, 2020, and that minimizing regulatory burden for stakeholders is a focus of the Government.

Comments on the Draft Guidelines***General Comments***

A number of stakeholders provided comments on the general approach to be taken by the OEB in response to the Section 35 Letter.

One stakeholder stated that, in addition to giving consideration to the benefits of converting from existing heating and hot water systems to natural gas, potential harm should be considered as well (including, for example, potential harm to alternative energy suppliers). The stakeholder suggested that the OEB's process should include a period for the solicitation of written comments from those who would be adversely affected by the proposed projects. The stakeholder further suggested that the OEB could then include these impacts in the Report. Along similar lines, three stakeholders proposed that the OEB require project proponents to compare savings associated with switching to natural gas against savings associated with other energy alternatives available or potentially available to customers (e.g., heat pumps, etc.). The OEB does not consider that an assessment of potential harm to alternative energy suppliers or the savings associated with other energy alternatives is in keeping with the intention underlying the Section 35 Letter.

The focus of comments received from two stakeholders was on encouraging projects that would serve Indigenous communities. Their other comments related to historic infrastructure gaps, energy poverty, and the potential impact on the electricity system resulting from reduced demand. Although it is not within the ambit of the OEB's mandate under the Section 35 Letter to direct proponents with regard to the communities that they may wish to serve, the OEB anticipates that some projects may propose to serve First Nations reserve lands or off-reserve Indigenous consumers. The OEB has added a new requirement in section 3.1 of the Final Guidelines requiring proponents to indicate whether their proposed project would serve any First Nations reserves, which may be useful information for the Ministry when considering proposed projects. The matter of off-reserve Indigenous consumers is discussed in the section on "Comments related to Part III" below. Issues relating to matters such as historic infrastructure gaps and potential impacts on the electricity system, while important, go beyond the scope of the matters that the OEB was asked to report to the Minister, and in the OEB's view cannot be meaningfully reviewed within the timelines set out in the Section 35 Letter.

One stakeholder suggested that the Report should refrain from ranking or rating proposed projects. The OEB wishes to clarify that the Section 35 Letter did not ask for a ranking of proposed projects, and the OEB does not intend to provide a ranking.

One stakeholder commented on the thresholds for leave to construct applications, including the prescribed amount of \$2 million and nominal pipe size of 12 inches. The stakeholder suggested that, in order to reduce the number of regulatory applications to the OEB and to reduce regulatory burden and costs, the prescribed amount should be increased to \$10 million and the nominal pipe size augmented to 16 inches. The stakeholder recommended that the OEB address the leave to construct thresholds as part of the Report. The OEB notes that changing those thresholds would require legislative change. While the OEB agrees that there is merit in a review of the thresholds given the length of time that they have been in place, this is outside the scope of what the OEB has been asked to do under the Section 35 Letter.

Several stakeholders proposed that the OEB require proponents to include information on their plans to provide Demand Side Management (DSM) programs for customers (from the time of conversion to natural gas and on an ongoing basis). One stakeholder suggested that the costs of offering DSM should also form part of the costs of the proposed projects. The OEB notes that there is not currently a common approach with respect to DSM across existing rate-regulated natural gas distributors. The OEB may also receive information on proposed projects from new entrants, who may not have DSM proposals developed at this time. The OEB will therefore not include specific requirements with respect to DSM in the Final Guidelines. However, the OEB takes this opportunity to note that it expects existing rate-regulated natural gas distributors with DSM programs to offer access to DSM programs to any new natural gas customers in accordance with policies and orders of the OEB prevailing at the relevant time. Other natural gas distributors whose rates become regulated by the OEB may also have the opportunity to make proposals to provide DSM programs as part of any new DSM framework going forward.

Comments related to Part II – Description of Proponent’s Technical Expertise and Financial Capability

One stakeholder suggested that the information required in Part II of the Draft Guidelines should not be required for any proponent who is a natural gas distributor currently operating in Ontario. The OEB agrees and has clarified that natural gas distributors that are currently rate-regulated by the OEB will not be required to provide the information set out in Part II of the Final Guidelines.

One stakeholder suggested that information related to a project proponent's financial capability should only need to be submitted once for each proponent, regardless of how many community expansion proposals are presented by that proponent. The Final Guidelines clarify that if a proponent who is not an existing OEB rate-regulated natural gas distributor intends to file information on multiple proposed projects, that proponent will only be required to file the information requested in Part II of the Final Guidelines once, unless the proponent has different organizational or financing structures for its proposed projects, in which case the Part II information must be filed for each different organizational or financing structure.

In regards to section 2.2 of the Draft Guidelines, one stakeholder suggested that municipally-owned greenfield utilities may not be able to provide information related to credit history or credit rating, and that the inability to provide this information should not impair the funding eligibility of greenfield utilities, particularly utilities located in northern Ontario. The stakeholder also asked for clarity with respect to the type of evidence that would satisfy the requirements regarding access to debt and equity markets (for example, confirmation that a comfort letter from a financial institution or the particulars of a negotiated credit arrangement should in their view suffice). The OEB has clarified in the Final Guidelines that new entrants that cannot provide the information identified in section 2.2 should explain why that is the case and file the best financial information that they have available.

Comments related to Part III – Description of and Support for Project

3.1 – General Overview of Project

One stakeholder suggested modified language that specifies the inclusion of Indigenous communities, and Indigenous community members both on- and off-reserve, as an explicit subset of communities to be connected. As noted above, the OEB has modified the language in section 3.1 to require that any on-reserve communities that would be served by a proposed project be identified. The OEB will not require that proponents identify off-reserve Indigenous consumers, as it may be difficult for proponents to obtain sufficiently accurate information in time to include it in their project information given the timelines established by the Section 35 Letter.

Other stakeholders suggested that a description be provided as to how a proposed project aligns with any local energy plans, including a Municipal Energy Plan, Indigenous Community Energy Plan, and with regional planning processes, and how the proposed project would comply with policy statements made in the provincial

government's Growth Plan for Northern Ontario. The OEB will not require proponents to address the alignment of a proposed project with any applicable energy plans, as the incremental benefit may not outweigh the incremental burden required to explain relevant linkages.

One stakeholder suggested that proponents should be required to explain their gas supply plans, including sources of the commodity, upstream transportation, and any other gas supply considerations that may be unique to their proposed project. The OEB believes that for new entrants, a high-level description of their sources of the commodity, upstream transportation, and any other relevant gas supply considerations could be useful for context. The OEB already has this information in the gas supply plans filed by the rate-regulated natural gas distributors. In addition, all proponents proposing projects using CNG and/or LNG will be required to provide a high-level description of the approach to procuring supply, including the infrastructure that will be required. The OEB has added these requirements to section 3.1 of the Final Guidelines.

3.2 to 3.4 – Customer Attachment and Volume Forecasts and Estimated Conversion Costs

Many stakeholders suggested that proponents should include supporting documentation to substantiate their forecasts and cost estimates. Stakeholders also suggested that proponents be required to conduct and provide sensitivity analyses for volume forecasts and conversion cost estimates. As indicated in the Section 35 Letter, the OEB is to analyze proposed projects with a focus on assessing whether they can be implemented substantially as proposed, in support of which the OEB is to call for a demonstrated commitment by the proponent that it would be willing to be held to the project costs, timelines and volume forecast set out in the project information provided to the OEB.

To give effect to this requirement, the Final Guidelines require a ten-year rate stability period for each proposed project, including in respect of attachment forecasts. Proponents should expect to bear the risk for the ten-year period if the customers they forecast do not attach to the system and/or actual project costs (capital and OM&A) are higher than expected. This is consistent with the OEB's South Bruce decision¹, where the OEB approved a ten-year rate stability period, which will hold the proponent to its forecast costs and not allow it to recover any over-spending from ratepayers during that period.

¹ EB-2016-0137, EB-2016-0138, EB-2016-0139

Proponents are responsible for accurately forecasting attachment rates, volumes and costs. To the extent they do not do so, they should not expect that they would be able to recover any additional costs from ratepayers for at least the ten-year rate stability period. As a result, the OEB is of the view that it is not necessary for the proponent to file supporting documentation or sensitivity analyses in relation to their customer attachment forecast and cost estimates.

Several stakeholders suggested that estimates of greenhouse gas emissions and emissions reductions associated with converting a community to natural gas should be provided as part of the project information. The OEB agrees that this information could be a useful input to the Ministry's consideration of proposed projects. Section 3.4 of the Final Guidelines makes provision for greenhouse gas emission estimates related to converting existing heating and water heating systems to natural gas to be included in the proponent's assessment of household energy impacts.

One stakeholder suggested that the OEB develop standardized household energy cost comparison models that include various energy alternatives in a potential gas expansion scenario, and which would include, for example, uniform assumptions related to carbon costs and landed costs of natural gas, propane, electricity, or other fuels. While the OEB sees merit in standardizing the assumptions to facilitate the OEB's review of costs and savings as between projects, the timelines indicated in the Section 35 Letter are not compatible with the OEB undertaking that kind of work in a responsible way. For clarity, however, the calculation of household energy costs for natural gas should include conversion costs, commodity costs, associated upstream transportation costs to Ontario, incremental CNG and LNG costs (where applicable), costs under the federal *Greenhouse Gas Pollution Pricing Act*, and distribution costs. The major assumptions (e.g. conversion factors) used in the calculations must also be provided. The OEB has added this clarification in section 3.4 of the Final Guidelines.

In regards to section 3.3, two stakeholders suggested that the annual average consumption level of 2,200 m³ in the Draft Guidelines should be allowed to vary if better information is available to estimate the annual consumption for a typical residential customer in a given community. The Final Guidelines clarify that the 2,200 m³ value is a default value. If a proponent has more accurate information regarding the annual consumption for residential customers in a given community, the proponent should use that value and explain how it has determined that it is more accurate than the default value.

3.5 – Proposed Construction Schedule

One stakeholder stated that it does not believe that information other than the date of construction being initiated and the estimated date of providing service is necessary. The OEB is of the view that the construction start date, the projected in-service date, and all major milestones are important information in considering whether a project can be implemented substantially as proposed. The OEB has therefore retained these requirements in the Final Guidelines.

3.7 – Certificate of Public Convenience and Necessity

One stakeholder suggested that when a proponent includes a copy of any Certificate, the proponent should specify whether the boundaries of the existing Certificate encompass the entire area which would be supplied with natural gas. The OEB agrees that proponents should specify the boundaries of the existing Certificate and indicate whether the boundaries encompass the entire area which would be supplied with natural gas.

Comments related to Part IV – Cost of Project

4.1 – Rate Stability Period

One stakeholder suggested that the requirement to commit to a period of rate stability should be decided on a case-by-case basis and not be imposed as a generic requirement. Another stakeholder proposed that a uniform ten-year rate stability period should apply for all proposed projects, as opposed to a minimum ten-year rate stability period. The OEB is of the view that a rate stability period should be reflected in the Final Guidelines as it is consistent with recent OEB decisions and gives effect to the requirement in the Section 35 Letter that the OEB analyze proposed projects with a focus on assessing whether they can be implemented substantially as proposed, including a demonstrated commitment by the proponent that it would be willing to be held to the project costs, timelines and volume forecast set out in their proposal. The OEB agrees that a standardized ten-year rate stability period should be used for all projects, as it is unlikely in any event that proponents would propose a longer rate stability period. Section 4.1 of the Final Guidelines reflects that change.

4.2 to 4.4 – Project Cost Forecasts

In regards to section 4.2, one stakeholder stated that because the Minister is looking for proponents to demonstrate a commitment to total project costs, details of project capital costs over the rate stability period should not be required by the OEB at this stage. Rather, the stakeholder stated that the net present value of the total net revenue of the project over the 40-year feasibility test period should be sufficient to evaluate proposed projects. Another stakeholder agreed with the requirement to include annual and total forecast costs during the rate stability period and that the proponent should take the risk that actual costs may differ from forecast (either higher or lower). One stakeholder suggested that costs related to upstream reinforcement should be considered a common assumption for all proposed projects to serve the same area. In other cases, the incumbent utility should be required to provide costing over a reasonable timeframe.

The OEB has determined that the total forecast capital costs of projects will only be required at the end of the rate stability period (i.e. year ten). This will ensure that sufficient information exists to determine the total capital costs that a proponent has committed to over the rate stability period. Accordingly, the OEB has removed the need for annual forecast capital costs during the rate stability period.

Proponents are required to include any upstream reinforcement costs, and the OEB expects that the incumbent utility will provide an estimate of those costs to any proponent requesting one and will do so in a timely manner, whether or not it is providing information to the OEB for a proposed project to serve the same area. The OEB may be notified should any issues arise in that respect. The OEB expects that upstream reinforcement costs for all proposed projects to serve the same area should be the same. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences. Section 4.2 of the Final Guidelines reflects these changes.

With respect to section 4.3, one stakeholder commented that, given that the Minister is looking for project proponents to demonstrate a commitment to be held to total project costs, the details of OM&A costs over the rate stability period are not needed by the OEB at this stage. In their view, the net present value of the total net revenue of the project over the feasibility test period should be sufficient. The stakeholder further commented that the OM&A costs should be the same as those included in the economic assessment of each project (i.e. only incremental OM&A costs should be included). Another stakeholder also suggested that project costs should include

incremental OM&A costs in order to avoid an over-recovery of costs. Another stakeholder supported the use of fully allocated forecast OM&A costs on the grounds that this ensures that there is no cross-subsidization of OM&A expenses between existing customers and customers of community expansions.

In order to streamline the project information submission process, the OEB has removed section 4.3, which appeared in the Draft Guidelines, as it is subsumed in the section of the Final Guidelines (now section 4.3) that deals with the revenue requirement. The OEB is, however, of the view that fully allocated costs should be used by proponents for the purposes of facilitating the OEB's review of costs between projects. This would allow for a more level playing field as between incumbent distributors and potential new entrants. However, for economic feasibility, incremental costs should be used in keeping with [E.B.O. 188](#).

In regards to section 4.4 of the Draft Guidelines (now section 4.3 of the Final Guidelines), one stakeholder commented that the total annual revenue requirement of the project over the rate stability period is not relevant to the assessment of the viability of an expansion project and that this information is implicit in the profitability index (PI) calculation. Another stakeholder agreed with the requirement to provide the total annual revenue requirement (as well as with the breakdown included in the Draft Guidelines) as proponents should bear the risk of the proposed revenue requirement over the rate stability period. This stakeholder also suggested that the OEB establish common assumptions (such as depreciation rates, capital structure, etc.). The OEB is of the view that the annual and total revenue requirement over the rate stability period is needed to demonstrate that a proponent can be held to its forecast total project costs. However, the OEB has streamlined the information to be provided by limiting it to total annual and cumulative revenue requirement over the rate stability period (i.e. with no breakdown of costs or the cost of capital) and rate base amount at the end of year ten.

One stakeholder suggested that, in order to evaluate the "all-in" cost of gas for proponents and consumers, incremental gas supply costs should be included in the analysis. The OEB is of the view that gas supply costs, including commodity costs and associated upstream transportation costs to Ontario, are not required as they are assumed to be common costs for all proponents. Assuming otherwise could introduce significant bias given that differences in gas supply cost projections between proponents could be material. However, to the extent that a proponent is proposing to use CNG or LNG, the costs of the infrastructure needed, as well as other associated costs, should be included as part of the project costs as CNG or LNG would displace pipelines to be built over a greater distance.

Comments related to Part V – Section 36.2 Funding

One stakeholder stated that information regarding the section 36.2 funding needed in year five per customer number and volumes is not relevant for the purposes of analyzing proposals, and that section 36.2 funding per customer number and volumes should only be required for year ten. The stakeholder also requested clarification regarding whether the full 40 years of system expansion surcharge (SES) revenue needs to be included in calculating the PI and section 36.2 funding information for a proposed project.

The OEB has determined that it will only require the section 36.2 funding information per customer number and volumes for year ten and not for year five, as information called for by sections 3.2 and 3.3 of the Final Guidelines will provide information on the pace of customer attachment and volumes. Sections 5.2 and 5.3 reflect that change. The OEB also confirms that the full 40 years of SES revenue needs to be included in calculating the project PI and section 36.2 funding information, consistent with the approach taken in the OEB's South Bruce decision. The OEB has also clarified in section 7.1 that, in keeping with the OEB's approach to avoiding cross-subsidization between customers, the PI for a proposed project is to be equal to one (1.0) and should be calculated on an individual basis (i.e. a proponent may not calculate its section 36.2 funding need based on a "portfolio" of projects).

Comments related to Part VI – Distribution Charge

One stakeholder stated that the funding required per customer to achieve the required project PI is the key piece of information that is required for an effective review of proposed projects and that the annual amounts recovered by a project proponent are implicit in the PI calculation that is to be provided by proponents. Another stakeholder suggested that the Draft Guidelines are not clear on whether the OEB intends proponents to identify average distribution charges or charges applicable to individual rate classes, and argued that some sort of average would be of limited value. This stakeholder noted that the Draft Guidelines clearly do not contemplate the provision of the kind of cost allocation information that would conventionally be relied upon in identifying and approving rates by rate class.

The OEB confirms that it does not expect that proponents will submit a cost allocation study to establish distribution charges at the rate class level, as this may be too onerous for proponents at this stage.

The OEB maintains that an estimate of distribution charges should be provided as it would be the foundation for determining the rates that would apply during the rate stability period. The OEB has, however, streamlined the Final Guidelines to only capture distribution charges for the residential class over the rate stability period. The OEB notes that, in keeping with the Section 35 Letter, this information is needed to estimate the extent to which a proposed project would reduce the household energy cost burden in the project area (section 3.4 of the Final Guidelines). The OEB has also revised section 6.1 to require proponents to confirm that there would be no material cross-subsidization between rate classes.

Another stakeholder proposed that the entire distribution charge, including both the underlying distribution rates as well as the SES, be subject to a ten-year rate stability period. To the extent that the rates in an expansion community are based on a utility's existing rates plus the SES, then these underlying rates may change through the utility's ordinary periodic rate cases to reflect, for example, an adjustment under an incentive regulation mechanism. In the OEB's view, taking this approach would introduce an assumption – that stand-alone rates are required for every community expansion project – that is inconsistent with OEB decisions². As a result, the OEB is not implementing this proposal.

Comments related to Part VII – Profitability Index

One stakeholder suggested that the PI calculation should be based on the OEB's E.B.O. 188. As discussed in the section on "Comments related to Part V" above, both the section 36.2 funding need and the project PI should be calculated based on an individual project and not on a "portfolio" of projects, in keeping with the OEB's approach to avoiding cross-subsidization between customers.

One stakeholder stated that there is no need for detailed supporting documentation related to the PI for each individual project. The OEB agrees and has modified sections 7.1 and 7.2 to only include a summary table with which proponents can demonstrate that the PI is equal to one (1.0). Any major assumptions used in the calculation, such as the discount rate, are also to be identified. The OEB expects that proponents will base their PI calculation on the methodology outlined in E.B.O. 188, except as otherwise stated in the Final Guidelines.

² For example, EB-2015-0179: Union Gas Ltd. Community Expansion

Comments related to Part VIII – OEB Approvals

One stakeholder commented that it would be difficult to identify required approvals beyond leave to construct, Certificates and franchise agreements. A project proponent would not typically be aware of other permits/approvals required from municipalities, conservation authorities, etc.

The OEB wishes to clarify that this section only pertains to approvals that will be required from the OEB. The OEB is not asking proponents to provide information on all other approvals or permits that may be required in respect of a given proposed project. For the purposes of preparing the information required by section 8.2 of the Final Guidelines, proponents should reference the performance standards posted on the OEB's [website](#) and where applicable assume a written hearing process.

Comments on the Sufficiency of the 90-day Timeline

The OEB received relatively few comments regarding the sufficiency of the 90-day period within which interested project proponents may file their information with the OEB.

One stakeholder suggested that the timeline biases in favour of incumbent distributors. Another stakeholder recommended that as much time as possible be provided for proponents to prepare submissions.

While the OEB understands the preference for more time to submit project information, the OEB is of the view that it is appropriate to maintain the 90-day period given that the Report is expected by August 31, 2020 as set out in the Section 35 Letter. This will allow for a 90-day window for submissions and a 90-day window for the OEB to analyze project information and submit its Report to the Ministry by August 31, 2020.

Comments on the Confidentiality of Information

The OEB received relatively few comments regarding information that interested parties believe should be treated as confidential as per the OEB's [Rules of Practice and Procedure](#) and its [Practice Direction on Confidential Filings](#). Neither of the existing rate-regulated natural gas distributors provided comments related to confidentiality.

As noted in its December 19, 2019 letter, the OEB intends to post each proponent's project information on the OEB website following the deadline for filing project information, subject to the exception noted in the next section.

Comments on the Options for Filing Information as between Certificate and Non-Certificate Holders

The OEB received relatively few comments related to the alternative options for addressing the requirement in the Section 35 Letter that a proponent must be the holder of the Certificate unless the Certificate holder does not propose a project for the area.

One stakeholder supported having the Certificate holder confirm in writing, immediately following the issuance of the Final Guidelines, to which Certificate areas they wish to bring forward a project (option 1), as this would be less administratively burdensome. Another stakeholder supported option 2 (i.e. allowing interested project proponents to bring forward proposed projects in areas where they do not have a Certificate, on the understanding that the Certificate holder in essence has a "right of first refusal"), stating that this option is more practical, and that the OEB should consider projects by non-Certificate holders. Another stakeholder stated that all proposed projects that satisfy the base requirements should be considered, regardless of whether or not the proponent is the Certificate holder. One stakeholder expressed concern with both options and proposed that the OEB allow multiple proponents, including the Certificate holder as well as others, to file project information and include them in the Report.

The OEB has selected option 2, as it appears to be more equitable and is less administratively burdensome for proponents. The other options suggested by some stakeholders are not compatible with the Section 35 Letter. As a result, the OEB will not include in its Report any proposed project from a non-Certificate holder unless the Certificate holder does not bring forward a project for the same area, and the OEB will not be posting project information for projects that are not included in the OEB's review.

Cost Awards

The issuance of the Final Guidelines marks the conclusion of this consultation. The OEB thanks all stakeholders for their contributions. A Notice of Hearing for Cost Awards will be issued separately.

Filing Instructions

All materials filed with the OEB must quote the file number, **EB-2019-0255**, be made in a searchable/unrestricted PDF format and sent electronically through the OEB's web portal at <https://pes.ontarioenergyboard.ca/eservice>. Two paper copies must also be filed at the OEB's address provided below. Filings must clearly state the sender's name, postal address and telephone number, fax number and email address. Parties must use the document naming conventions and document submission standards outlined in the RESS Document Guideline found at <https://www.oeb.ca/industry>. If the web portal is not available parties may email their documents to the address below. Those who do not have computer access are required to file seven paper copies.

All communications should be directed to the attention of the Registrar at the address below, and be received no later than 4:45 p.m. on the required date.

ADDRESS

Ontario Energy Board
P.O. Box 2319
2300 Yonge Street, 27th Floor
Toronto ON M4P 1E4
Attention: Board Secretary

Email: boardsec@oeb.ca
Tel: 1-888-632-6273 (Toll free)
Fax: 416-440-7656

Yours truly,

Original signed by

Christine E. Long
Registrar and Board Secretary

Appendix A

Final Guidelines for Potential Projects to Expand Access to Natural Gas Distribution

Proponents completing the costing information outlined below should exclude the following unless noted otherwise:

- Demand-Side Management (DSM) costs
- Gas commodity costs and associated upstream transportation costs to Ontario
- Royalty payments to municipalities if the payments are not recovered through the revenue requirement

References to “section 36.2 funding” below are references to funding under section 36.2 of the *Ontario Energy Board Act, 1998* (OEB Act).

Part I – Name of Proponent	
Name of Proponent:	File No: EB-2019-0255
Project Name:	
Address of Head Office:	Telephone Number:
Name of Individual to Contact:	Office Telephone Number:
	Cell Phone Number:
	Email Address:

Part II – Description of Proponent’s Technical Expertise and Financial Capability
<i>Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.</i>
<i>A proponent that is not currently rate-regulated as a natural gas distributor by the OEB and that has multiple proposed projects is only required to provide the information in this Part once, unless the proponent has different organizational or financial structure approaches for its projects. In that case, the information in this Part must be provided for each different organizational or financing structure.</i>

Part II – Description of Proponent’s Technical Expertise and Financial Capability	
2.1	Describe the proponent’s technical expertise to develop, construct, operate and maintain a natural gas distribution system.
2.2	<p>Describe the proponent’s financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following:</p> <ul style="list-style-type: none"> • Current credit rating of the proponent, its parent or associated companies. • Financial statements for each of the past two fiscal years. This may include audited financial statements, annual reports, prospectuses or other such information. If the proponent does not have financial statements (because it is a new entrant), the proponent is instead to provide pro forma financial statements for two years along with notes or business plans explaining the assumptions used in preparing the pro forma statements, where the documents must be signed by at least one key individual. • If the proponent needs to raise additional debt or equity to finance the proposed project, evidence of the proponent’s ability to access the debt and equity markets. <p>New entrants that cannot provide the information identified in this section should explain why that is the case and provide the best information that they have available.</p>

Part III – Description of and Support for Project	
3.1	<p>Provide a general overview of the project, which is to include the following: communities to be connected, including whether the project would serve any on-reserve Indigenous communities; existing population of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size.</p> <p>For a proponent that is not rate-regulated as a natural gas distributor by the OEB, provide a high-level description of sources of the commodity, upstream transportation, and any other relevant gas supply considerations. For all proponents proposing projects using CNG and/or LNG, provide a high-level description of the approach to procuring supply, including the infrastructure that will be required.</p>
3.2	Provide the annual and cumulative forecast of the number of customer attachments over the ten-year rate stability period by residential, commercial/institutional and industrial sectors for each community. Indicate for each customer type whether the service to be provided would be firm or

Part III – Description of and Support for Project	
	interruptible.
3.3	<p>Provide the annual and cumulative forecast of volumes (in m³) over the ten-year rate stability period by residential, commercial/institutional and industrial sectors for each community.</p> <p>For the residential segment, the default value for the average consumption level is 2,200 m³ per year. A proponent that has more accurate information regarding the annual consumption for residential customers in a given community may use that value, in which case it must explain how it has determined that it is more accurate than the default.</p>
3.4	<p>Provide the estimated conversion costs to convert each of the existing heating systems (e.g., propane forced air, oil forced air, electric forced air and electric baseboard) and water-heating systems (e.g., electric, oil and propane) to natural gas. To the extent available, provide information on the current proportion of customers on each type of heating system.</p> <p>Provide the estimated annual costs of the existing alternative fuels relative to natural gas, including the annual savings with natural gas. The calculation of household energy costs for natural gas should include conversion costs, commodity costs, associated upstream transportation costs to Ontario, incremental CNG and LNG costs (where applicable), costs under the federal <i>Greenhouse Gas Pollution Pricing Act</i> and distribution costs. The assessment of household energy cost impacts should include greenhouse gas (GHG) emission estimates (whether positive or negative) related to converting existing heating and water heating systems to natural gas. The major assumptions (e.g. conversion factors) used in the calculations must also be provided.</p>
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
3.6	Provide letter(s) from the Band Council(s) and/or local government, as applicable, stating support for the project, including details of any commitment to financial support.
3.7	<p>Provide a copy of the Certificate of Public Convenience and Necessity (Certificate) for the area to be served, if held by the project proponent. If not, indicate whether another entity holds the Certificate for the area to be served, if known, and if so, identify the Certificate holder.</p> <p>Where the project proponent holds a Certificate for the areas to be served, specify the boundaries of the Certificate and indicate whether the boundaries encompass the entire area that would be supplied by the proposed project.</p>

Part III – Description of and Support for Project															
Part IV – Cost of Project															
4.1	Confirm that the proposed project includes a ten-year rate stability period.														
4.2	<p>Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e. year ten).</p> <p>Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).</p> <p>For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs.</p> <p>Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility’s proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent’s project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences.</p>														
4.3	<p>Provide the total annual forecast revenue requirement of the project over the ten-year rate stability period (using fully allocated OM&A costs) and rate base amount at the end of year ten.</p> <p>Complete the tables below:</p> <p>Revenue Requirement</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Year 1</th> <th>Year 2....</th> <th>Year 10</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Revenue requirement</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Description</th> <th>Year 10</th> </tr> </thead> <tbody> <tr> <td>Closing Rate Base</td> <td></td> </tr> </tbody> </table> <p>Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).</p>	Description	Year 1	Year 2....	Year 10	Total	Revenue requirement					Description	Year 10	Closing Rate Base	
Description	Year 1	Year 2....	Year 10	Total											
Revenue requirement															
Description	Year 10														
Closing Rate Base															

Appendix A

Part V – Section 36.2 Funding	
5.1	Provide the total amount of section 36.2 funding needed to support the project.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
5.3	Provide the section 36.2 funding amount per volume (m ³) in year ten of the project.

Part VI – Distribution Charge	
6.1	<p>Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.</p> <p>Provide a confirmation that there would be no material cross-subsidization between rate classes.</p>

Part VII – Profitability Index / Benefit to Cost Ratio	
7.1	<p>Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.</p> <p>The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e. not a “portfolio” of projects).</p>
7.2	Provide, in a summary table that otherwise meets the requirements of section 7.1, the expected PI of the project without the proposed section 36.2 funding.

Part VIII – OEB Approvals	
8.1	Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order)
8.2	For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB’s website and where applicable assume a written hearing process.

**Ministry of Energy,
Northern Development
and Mines**

**Ministère de l'Énergie,
du Développement du Nord
et des Mines**



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Bureau du ministre

Office of the Associate Minister
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DEC 12 2019

MC-994-2019-935

Mr. Robert Dodds
Vice-Chair
Ontario Energy Board
2300 Yonge Street, 27th Floor
Toronto ON M4P 1E4

Dear Mr. Dodds:

I write in my capacity as the Minister of Energy, Northern Development and Mines with the support of the Associate Minister of Energy in order to exercise the statutory power I have under section 35 of the *Ontario Energy Board Act, 1998* ("Act") to require the Ontario Energy Board ("Board") to examine and report back to the Ministry of Energy, Northern Development and Mines ("Ministry") with information on potential projects to expand access to natural gas distribution systems for new customers.

Background

On September 18, 2018, the Government announced it would take action to expand natural gas distribution to communities that are not currently connected to a natural gas distribution system.

The *Access to Natural Gas Act, 2018*, which amended the Act, provides a mechanism to financially support the expansion of natural gas distribution for projects that would otherwise be considered uneconomic under existing policies.

Ontario Regulation 24/19, Expansion of Natural Gas Distribution Systems ("Regulation"), under the Act supports natural gas expansion by imposing a \$1 per month charge on existing natural gas customers. The nine projects currently listed in the Regulation are eligible for financial support, subject to receiving any necessary Board approvals. Several of these projects are currently under construction.

In order to build on the progress to date, the Government intends to further increase access to natural gas by making additional new projects eligible for financial support. The Government intends to make use of the same mechanism articulated in the current Regulation; namely, the collection of \$1 per month from existing natural gas customers.

.../cont'd

The Government intends for approximately \$130 million to be made available to support new natural gas projects that can reasonably be expected to commence construction between 2021 and 2023.

Section 35 Report

Therefore, pursuant to my authority under s.35 of the Act, with the support of the Associate Minister of Energy, I require the Board to examine and report back to the Ministry with information about additional natural gas expansion projects that the Government could consider as potential candidates for financial support.

It is the Government's intention that financial support be limited to potential natural gas expansion projects that would, under existing policies, be considered uneconomic.

I expect the Board to apply its expertise in developing a process to solicit information from proponents about proposed natural gas distribution expansion projects, and to analyze the proposed projects with a focus on assessing whether they can be implemented substantially as proposed. This should include a call for a demonstrated commitment by the proponent that it would be willing to be held to the project cost, timelines and volumes forecasts as set out in their project proposal. The Board's approach should consider the following:

1. The number of customers (in terms of customer count, volume of gas to be distributed, and customer type) that would be connected by each proposed project;
2. The total cost of each proposed project, as well as the dollar amount of support needed for each proposed project to meet the Board's profitability threshold;
3. The proposed construction start date and construction period for each proposed project, as the Government's focus is on projects that can reasonably be expected to start construction by 2023, allowance being made for the timelines typically applicable to the process of obtaining regulatory approvals;
4. The project proponent's demonstrated experience, technical expertise and financial ability to build and operate a natural gas distribution system;
5. Support for the proposed project from Band Council(s) and/or local government, as applicable, demonstrated through a written expression of support and/or a commitment to financial support;
6. If a proposed project is in an area where a Certificate of Public Convenience and Necessity exists, the proponent must be the Certificate holder unless the Certificate holder does not propose a project for the area; and
7. The extent to which the project proponent expects that the proposed project would reduce the household energy cost burden in the project area.

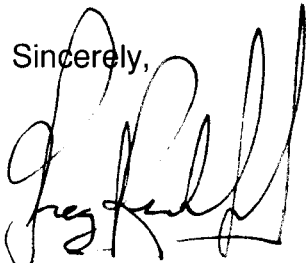
...cont'd

-3-

I expect the Board to issue a call for information in early 2020, including details of the information to be filed by interested project proponents. The Board should consider a minimum 90-day window for information submissions. I also ask that, in developing its approach, the Board be mindful of the Government's focus on minimizing regulatory burden for stakeholders.

It is my expectation that the Board will report back to the Ministry no later than August 31, 2020. The information provided by the Board will be taken into account, along with other considerations, to make a determination on future expansion projects. If there is a need to consider further projects for expansion, the Ministry may request that the OEB proceed with a second call for information and report back to the Ministry.

Sincerely,



The Honourable Greg Rickford
Minister of Energy, Northern
Development and Mines



The Honourable Bill Walker
Associate Minister of Energy

c: Mary Anne Aldred, Chief Operating Officer & General Counsel

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit D

Question(s):

- a) Please provide a table showing individually for each portion of the project: (i) the design hour capacity, (ii) the forecast design hour demand if the full customer attachment/revenue forecast materializes, (iii) the design hour capacity if Enbridge were to use the next smallest sized pipe, and (iv) the cost savings from using the next smallest size pipe.

- b) Individually for each portion of the project, please indicate whether Enbridge could downsize the pipe, or part of the pipe, and still meet the demand underlying the revenue forecast. Please provide a full explanation, including a quantification of the savings from downsizing

Response:

- a) Please see the requested Table below:

Table 1
Comparison of Design Hour Capacities for the Proposed Project Facilities

Line No.	Facility	Design Hour Capacity (m3/hr)	Forecast Design Hour Demand If the Full Customer Attachment Materializes (m3/hr)	Design Hour Capacity of the Next Smallest Sized Pipe (m3/hr)	Cost Savings from Using the Next Smallest Size Pipe
1	8.4 km of Nominal Pipe Size (NPS) 4 Polyethylene (PE)	600	525	173 (not able to maintain minimum system pressure).	Please refer to the response to question b). To downsize approximately 300 m of NPS 4 to NPS 2, cost savings would total approximately \$13,800.
2	4.9 km of NPS 2 PE	N/A	N/A	N/A (NPS 2 is the smallest size for new gas main design).	N/A
3	Ancillary Facilities (station)	525	525	N/A	N/A

Notes:

1. For the 8.4 km of NPS 4 PE pipeline, the excess capacity is approximately 75 m3/h if measured at the tail end of the NPS 4 PE pipeline.
 2. The 4.9 km of NPS 2 PE pipelines are mainly the last pieces of gas distribution system servicing various number of customers at various locations. Their capacities and forecasted design hour demand depends on their locations therefore cannot be provided in one number. NPS 2 PE intermediate pressure (IP) pipeline is already the smallest pipe size that can be chosen for these new gas main design sections.
 3. The station replacement is required to meet the additional flow rate of 525 m3/h at the station. The additional flow rate of 525 m3/h is required to meet the forecasted load for the Project.
- b) Approximately 300m of the proposed NPS 4 PE pipeline, at the northwest end of the proposed NPS 4 PE pipeline, can be downsized to NPS 2 PE and still meet the forecasted demand of the project. However, the proposed 8.4 km of NPS 4 PE pipeline is the supply lateral that begins from the source of gas supply (the proposed station) and ends at the Sandford community. Downsizing the 300 m of NPS 4 PE pipeline will reduce the supply lateral pipe size to NPS 2 before it arrives at the Sandford community. This would restrict the flow before it reaches the largest concentration of customers. Therefore, downsizing the pipeline would prevent Enbridge Gas from serving any additional customers past the forecasted attachment rate, without reinforcing the downsized section of pipeline in the future. Furthermore,

300 m of pipeline represents only approximately 3.5% of the proposed 8.4 km of NPS 4 PE pipeline.

The 4.9 km of NPS 2 PE pipeline and the ancillary facilities are the minimum required design to meet the forecasted demand of this project. Therefore, these designs cannot be downsized or partly downsized and still meet the forecasted demand.

ENBRIDGE GAS INC.

Answer to Interrogatory from
 Environmental Defence (ED)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, Page 8

Question(s):

- a) Table 2 shows the projected customer additions. Please confirm if the years indicated are calendar years. If not, please explain.
- b) Please provide a copy of table 2 with “Year 1, Year 2...” replaced with the actual years. Please also add a column for the total number of potential customers in the project area.
- c) Please provide a side-by-side showing table 2 before and after the evidence update.
- d) Why has the number of new construction units declined in table 2 from 2,237 to 1,807 due to the update?

Response:

- a) Confirmed. Years indicated are calendar years.
- b) Please see Table 2 reproduced with actual calendar years. A column has also been added to show the total number of potential customers in the project area

/u

Table 2:

Forecasted Customer Attachments for the Sandford Community Expansion Project

Line No.	Customer Additions	Total Potential	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total Forecasted
1	Residential Single-Family Conversion	199	34	34	25	18	18	9	9	9	9	8	173
2	Commercial	8	3	2	2	1							8
3	Institutional	1		1									
4	Industrial	1 ¹		1 ¹									
5	Total	209	37	38	27	19	18	9	9	9	9	8	183

¹ This is an agricultural property with residential-equivalent loads that was identified as an industrial property in error at Exhibit B, Tab 1, Schedule 1, Table 2. The mischaracterization of this property does not impact the Project economics.

- c) This question is not applicable to the Sandford Community Expansion Project.
- d) This question is not applicable to Sandford Community Expansion Project and is referencing values from another project.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, Attachment 3 (Forum Survey Results)

Question(s):

- a) Please provide a table showing, of the respondents likely to connect to natural gas (incl. likely, very likely, and extremely likely), how many and what percent have each of the following space heating systems (# and %): electric baseboard, electric heat pump, electric other, propane, oil, wood, and other.
- b) Please provide a table showing, for each of the respondents likely to connect to natural gas (incl. likely, very likely, and extremely likely) that use oil heating, what is the size of their household and what is their household income (confirming whether that be before or after tax income).
- c) Please provide the fully granular results from the surveys in a live excel spreadsheet. Please include descriptive column headings (not simply reference to survey question numbers). Please include a key or data label table if necessary to understand the responses.
- d) Please provide the fully granular survey materials, including any letters sent to residents, door-to-door survey materials, online survey questions, and CATI survey questions.
- e) CATI survey question materials can be difficult to understand in their “raw” form. Please provide a question mapping document and any other available materials to help the reader understand which questions are asked and when.
- f) Please indicate the number of respondents with air conditioning. If that question was not asked, please provide an average number based on Ontario’s housing stock or Enbridge’s equipment surveys.
- g) Please provide the approximate average age for customers’ propane furnaces. Please provide this figure for all respondents with a propane furnace and for the subset of customers likely to connect to the gas system (incl. likely, somewhat likely, and extremely likely)

Response:

- a) The requested information is provided at Exhibit B, Tab 1, Schedule 1, Attachment 3 (Forum Survey Results), page 2.
- b) 30 respondents using oil as their primary heating fuel indicated they are likely to connect to natural gas. Individual survey responses for household income (before taxes) and household size are shown in Table 1 for these 30 respondents. Where data is not provided in Table 1, the respondent declined to provide a response.

Enbridge Gas cautions that the number of respondents that provided both household income and household size is low and this limits the ability to draw conclusions about the broader Sanford area on this matter.

Table 1
Respondents with oil heating likely to connect to natural gas:
Individual responses to household income and size

Respondent	Household Income	Household Size
1	\$20k - \$40k	2
2	\$140k or more	4
3	\$60k - \$80k	1
4		2
5	\$120k - 140k	4
6	\$60k - \$80k	3
7		1
8		4
9		4
10		
11		4
12	\$140k or more	4
13		4
14		1
15	\$20k - \$40k	2
16	\$100k - \$120k	3
17	\$140k or more	3
18	\$100k - \$120k	3
19	\$60k - \$80k	2
20	Under \$20k	1
21	\$140k or more	5

Table 1 (Continued)*

Respondents with oil heating likely to connect to natural gas:
Individual responses to household income and size

Respondent	Household Income	Household Size
22	\$40k - \$60k	1
23	\$120k - 140k	3
24		1
25		4
26	\$120k - 140k	5
27	\$140k or more	3
28	\$120k - 140k	3
29		
30		3

- c) Please see Attachment 1. Information that could identify the respondent is not included within the file.
- d) Survey materials consisted of the letter distributed to homes in the Project area (see Attachment 2) and the survey instrument (see Attachment 3). The survey instrument includes the survey questions and programming logic used for all methodologies.
- e) Enbridge Gas recognizes that the instruments can be difficult to understand in the format that is output from the survey systems. As such, a simplified version is provided with the questions and programming logic at Attachment 3 to this response. Where very minor differences exist in instructions (for example, some questions in the online survey instructed respondents to select from a list of options whereas options are read in the telephone version) the instrument provides the online instructions.
- f) The survey did not collect information related to air conditioning as summer cooling is not relevant to the Project.

Among existing residential customers living in single-family homes across the entire Enbridge Gas service territory, the 2022 Residential Single Family Natural Gas End Use study conducted by Enbridge Gas found that 89% have air conditioning, of which 90% is a central air conditioning system. However, there can be considerable variation in air conditioning penetration across the Company's service area and therefore franchise-wide results may not be representative of a specific area or community.

- g) Enbridge Gas interprets the request as pertaining to the Forum survey conducted within the Project area and not the entire Enbridge Gas service territory.

The average age of propane systems used as the primary heating source was 7.52 years in total and 7.54 years among those likely to connect to natural gas. For the purpose of calculating the average, responses of “less than one year old” were counted as 1.

RecordNo	LastCallDate	COMMUNITY	SCR3. Do you own or rent this property?	SCR5. Which of the following best describes the building (or buildings) at this location?	SCR6. On average, how much is your annual heating cost for this premise including taxes? Please enter 99999 if you would like to leave blank	H1A. What is the primary energy source of heat for this premise? Is it...?	H1A. Other [SPECIFY]	H1B. What type of system provides the primary source of heat for this premise? Is it...? (RESPONSES FOR OIL)	H1B. What type of system provides the primary source of heat for this premise? Is it...? (RESPONSES FOR PROPANE)
000000565	20220901	Sandford	Own	Residential	99999.00	Propane			Propane fireplace
000000479	20220831	Sandford	Own	Residential	99999.00	Oil		Oil Forced Air	
000000540	20220828	Sandford	Own	Residential	5000.00	Oil		Oil Forced Air	
000000525	20220901	Sandford	Own	Farm	4000.00	Oil		Oil Forced Air	
000000461	20220825	Sandford	Own	Residential	1200.00	Oil		Oil Forced Air	
000000564	20220901	Sandford	Own	Residential	5000.00	Electricity			
000000430	20220825	Sandford	Own	Residential	4000.00	Propane			Propane Forced Air
000000605	20220827	Sandford	Own	Residential	2000.00	Oil		Oil Forced Air	
000000500	20220831	Sandford	Own	Residential	3000.00	Oil		Oil Forced Air	
000000581	20220902	Sandford	Own	Residential	3000.00	Oil		Oil Forced Air	
000000086	20220904	Sandford	Own	Residential	99999.00	[DO NOT READ] Other (SPECIFY)	Pellet wood stove		
000000049	20220829	Sandford	Own	Residential	10000.00	[DO NOT READ] Other (SPECIFY)	Propane and electrical		
000000079	20220903	Sandford	Own	Both Residence and a Business	0.00	Wood			
000000006	20220823	Sandford	Own	Residential	2000.00	Propane			Propane Forced Air
000000072	20220901	Sandford	Own	Residential	3500.00	Propane			Propane Boiler (Hot Water Radiators)
000000024	20220825	Sandford	Own	Residential	2400.00	Heat pump such as a geothermal system			
000000016	20220823	Sandford	Own	Residential	2000.00	Oil		Oil Forced Air	
000000017	20220823	Sandford	Own	Residential	4200.00	Oil		Oil Forced Air	
000000011	20220823	Sandford	Own	Residential	2500.00	Propane			Propane Forced Air
000000046	20220828	Sandford	Own	Residential	4000.00	Propane			Propane Forced Air
000000099	20220906	Sandford	Own	Residential	3500.00	Propane			Propane Forced Air
000000107	20220907	Sandford	Own	Residential	4800.00	Electricity			
000000021	20220825	Sandford	Own	Residential	99999.00	Propane			Propane Forced Air
000000040	20220825	Sandford	Own	Residential	1200.00	Propane			Propane Forced Air
000000109	20220908	Sandford	Own	Residential	4000.00	Propane			Propane Forced Air
000000120	20220909	Sandford	Own	Residential	2000.00	Propane			Propane Forced Air
000000045	20220826	Sandford	Own	Both Residence and a Business	5000.00	Propane			Propane Forced Air
000000018	20220823	Sandford	Own	Residential	3000.00	Oil		Oil Forced Air	
000000106	20220906	Sandford	Own	Residential	4000.00	Heat pump such as a geothermal system			
000000041	20220825	Sandford	Own	Residential	1500.00	Oil		Oil Forced Air	
000000113	20220908	Sandford	Own	Residential	3000.00	Propane			Propane Forced Air
000000029	20220825	Sandford	Own	Residential	99999.00	Propane			Propane Forced Air
000000071	20220901	Sandford	Own	Residential	2000.00	Propane			Propane Forced Air
000000010	20220823	Sandford	Own	Residential	1500.00	Propane			Propane Forced Air
000000091	20220904	Sandford	Own	Residential	4800.00	Propane			Propane Forced Air
000000117	20220908	Sandford	Own	Residential	8000.00	Propane			Propane Forced Air
000000114	20220908	Sandford	Own	Residential	3000.00	Propane			Propane Forced Air
000000123	20220911	Sandford	Own	Residential	950.00	Propane			Propane Forced Air
000000020	20220823	Sandford	Own	Residential	2500.00	Oil		Oil Forced Air	
000000100	20220906	Sandford	Own	Residential	2500.00	Propane			Propane Forced Air
000000122	20220910	Sandford	Own	Residential	99999.00	Propane			Propane Forced Air
000000061	20220901	Sandford	Own	Residential	2000.00	Propane			Propane Forced Air
000000105	20220906	Sandford	Own	Residential	4800.00	Propane			Propane Forced Air
000000014	20220823	Sandford	Own	Residential	1800.00	Oil		Oil Forced Air	
000000082	20220903	Sandford	Own	Residential	10000.00	Propane			Propane Boiler (Hot Water Radiators)
000000084	20220903	Sandford	Own	Residential	99999.00	Heat pump such as a geothermal system			
000000087	20220904	Sandford	Own	Residential	1500.00	Propane			Propane Forced Air
000000110	20220908	Sandford	Own	Residential	99999.00	Oil		Oil Forced Air	
000000121	20220909	Sandford	Own	Both Residence and a Business	99999.00	Oil		Oil Forced Air	
000000124	20220911	Sandford	Own	Residential	2000.00	Propane			Propane Forced Air
000000077	20220903	Sandford	Own	Residential	3000.00	Propane			Propane Forced Air
000000075	20220903	Sandford	Own	Residential	2900.00	Propane			Propane Forced Air
000000132	20220913	Sandford	Own	Residential	2500.00	Oil		Oil Forced Air	
000000051	20220830	Sandford	Own	Residential	3000.00	Propane			Propane Forced Air
000000047	20220829	Sandford	Own	Residential	99999.00	Oil		Oil Forced Air	

RecordNo	H1B. What type of system provides the primary source of heat for this premise? Is it...? (RESPONSES FOR ELECTRICITY)	H1B. What type of system provides the primary source of heat for this premise? Is it...? (RESPONSES FOR WOOD)	New 1. What kind of heat pump do you have?	New 2. How knowledgeable would you say that you are about heat pumps including air source heat pumps, geothermal or ground source heating and cooling systems for homes?	New 3: How likely would you be to seek out more information about installing a heat pump heating and cooling system for your home?	H2. How old is your heating system? Enter 98 if LESS THAN ONE YEAR. Enter 99 if Don't know	H3. How likely are you to replace your heating system in the next 2 years? Are you...? Extremely likely, Very likely, Likely, Not very likely, Not at all likely	W1. What is the MAIN fuel source for heating your water?	W1 (Other)
000000565				Not very knowledgeable	Not at all likely	8.00	Not at all likely	Propane	
000000479				Not very knowledgeable	Not very likely	4.00	Not at all likely	Electricity	
000000540				Somewhat knowledgeable	Likely	20.00	Not very likely	Electricity	
000000525				Somewhat knowledgeable	Likely	25.00	Likely	Electricity	
000000461				Not very knowledgeable	Likely	4.00	Not very likely	Electricity	
000000564	Heat pump such as a geothermal system		Air Source Heat Pump	Very knowledgeable	Not very likely	7.00	Very likely	Electricity	
000000430				Not very knowledgeable	Not very likely	2.00	Not at all likely	Electricity	
000000605				Somewhat knowledgeable	Don't Know	2.00	Not at all likely	Electricity	
000000500				Somewhat knowledgeable	Don't Know	10.00	Not at all likely	Electricity	
000000581				Very knowledgeable	Very likely	20.00	Likely	Electricity	
000000086				Somewhat knowledgeable	Extremely likely	99.00	Very likely	Electricity	
000000049				Not very knowledgeable	Not at all likely	3.00	Not at all likely	Propane	
000000079		Outdoor wood furnace		Very knowledgeable	Not very likely	5.00	Likely	Electricity	
000000006				Somewhat knowledgeable	Not very likely	2.00	Not at all likely	Electricity	
000000072				Very knowledgeable	Not at all likely	3.00	Not at all likely	Propane	
000000024			Geothermal or ground source heat pump			10.00	Not at all likely	Electricity	
000000016				Somewhat knowledgeable	Not at all likely	14.00	Not at all likely	Electricity	
000000017				Not very knowledgeable	Likely	15.00	Not very likely	Electricity	
000000011				Very knowledgeable	Not at all likely	1.00	Not at all likely	Electricity	
000000046				Somewhat knowledgeable	Not very likely	3.00	Not at all likely	Propane	
000000099				Somewhat knowledgeable	Likely	4.00	Likely	Electricity	
000000107	Electric Forced Air			Somewhat knowledgeable	Not very likely	5.00	Likely	Electricity	
000000021				Not very knowledgeable	Don't Know	7.00	DK/NS (DO NOT READ)	Electricity	
000000040				Somewhat knowledgeable	Likely	7.00	Not at all likely	Electricity	
000000109				Somewhat knowledgeable	Very likely	7.00	Not very likely	Electricity	
000000120				Somewhat knowledgeable	Likely	7.00	Not very likely	Electricity	
000000045				Not very knowledgeable	Not very likely	8.00	Not very likely	Electricity	
000000018				Not very knowledgeable	Not very likely	15.00	Not at all likely	Electricity	
000000106			Geothermal or ground source heat pump			15.00	Not very likely	Geothermal/Ground source	
000000041				Somewhat knowledgeable	Not at all likely	18.00	Not at all likely	Oil	
000000113				Somewhat knowledgeable	Not very likely	98.00	Not at all likely	Electricity	
000000029				Not very knowledgeable	Not at all likely	1.00	Not at all likely	Electricity	
000000071				Very knowledgeable	Not at all likely	4.00	Not at all likely	Electricity	
000000010				Not very knowledgeable	Don't Know	5.00	Not at all likely	Electricity	
000000091				Somewhat knowledgeable	Not at all likely	5.00	Not very likely	Electricity	
000000117				Somewhat knowledgeable	Likely	5.00	Not at all likely	Propane	
000000114				Not very knowledgeable	Not very likely	7.00	Not at all likely	Propane	
000000123				Somewhat knowledgeable	Not at all likely	8.00	Not very likely	Propane	
000000020				Not very knowledgeable	Likely	10.00	Very likely	Electricity	
000000100				Somewhat knowledgeable	Not very likely	10.00	Not very likely	Propane	
000000122				Not very knowledgeable	Not at all likely	10.00	Not very likely	Propane	
000000061				Somewhat knowledgeable	Not very likely	12.00	Not very likely	Propane	
000000105				Very knowledgeable	Not at all likely	12.00	Likely	Propane	
000000014				Not very knowledgeable	Don't Know	14.00	Not at all likely	Oil	
000000082				Somewhat knowledgeable	Likely	15.00	Likely	Propane	
000000084			Air Source Heat Pump			15.00	Likely	Electricity	
000000087				Somewhat knowledgeable	Not very likely	20.00	Not very likely	Propane	
000000110				Somewhat knowledgeable	Don't Know	20.00	Extremely likely	Electricity	
000000121				Somewhat knowledgeable	Don't Know	22.00	Extremely likely	Oil	
000000124				Very knowledgeable	Very likely	22.00	Not at all likely	Propane	
000000077				Not very knowledgeable	Not at all likely	23.00	Very likely	Propane	
000000075				Not very knowledgeable	Likely	25.00	Not at all likely	Propane	
000000132				Somewhat knowledgeable	Not very likely	35.00	DK/NS (DO NOT READ)	Electricity	
000000051				Somewhat knowledgeable	Not very likely	98.00	Not at all likely	Propane	
000000047				Not very knowledgeable	Likely	99.00	Likely	Oil	

RecordNo	W2. How old is your water heater?	W3. Is your water heater owned or rented?	W5. The purchase and installation of a typical natural gas water heater costs about \$1,700 including taxes depending on the complexity of the installation. However, with natural gas, you could save up to ALL = \$250 compared to propane water heating costs every year, or Selwyn, Hidden Valley, Neustadt, Sandford = \$50 / Cherry Valley = \$15 compared to electric water heating costs. The federal carbon pricing program will result in increases to	W5a. Natural Gas water heaters can also be rented. Typical monthly rental rates range from \$23 per month to \$30 per month including taxes. Depending on the specific style of your premises, the property owner may incur additional expenses for the conversion. However, with natural gas, you could save up to ALL = \$250 compared to propane water heating costs every year, or Sandford = \$50 compared to electric water heating costs.	H5. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a natural gas high efficiency furnace or boiler is in the range of \$4,500 to \$5,500 including taxes depending on the type of equipment you currently have. In addition to the cost of converting your heating equipment, an average home would be required to make a financial	H5a. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a natural gas high efficiency furnace is in the range of \$4,500 to \$5,500 including taxes depending on the type of equipment you currently have. In addition to the cost of converting your heating	H6. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting your existing heating system to natural gas is likely in the range of \$400 to \$1,000 including taxes depending on the type of equipment you currently have. In addition to the cost of converting your heating equipment, an average home would be required to
0000000565	5 years or less	Owned		Not at all likely			
0000000479	5 years or less	Owned		Not at all likely			
0000000540	11 to 15 years old	Owned		Not at all likely		Not very likely	
0000000525	16 to 25 years old	Owned		Not very likely		Not very likely	
0000000461	5 years or less	Owned		Likely			
0000000564	Over 25 years old	Owned		Very likely			
0000000430	6 to 10 years old	Rented		Not very likely			Extremely likely
0000000605	5 years or less	Rented		Not very likely		Likely	
0000000500	5 years or less	Rented		Not very likely		Not at all likely	
0000000581	16 to 25 years old	Rented		Very likely			
0000000086	DK/NS (DO NOT READ)	Owned		Likely			
0000000049	6 to 10 years old	Rented					
0000000079	6 to 10 years old	Owned		Very likely			
0000000006	6 to 10 years old	Owned		Not at all likely			Not very likely
0000000072	5 years or less	Owned		Not at all likely			Extremely likely
0000000024	11 to 15 years old	Owned		Not at all likely			
0000000016	6 to 10 years old	Owned		Not at all likely		Extremely likely	
0000000017	5 years or less	Owned		Not at all likely		Extremely likely	
0000000011	5 years or less	Owned		Not very likely			Very likely
0000000046	5 years or less	Owned		Not very likely			Extremely likely
0000000099	5 years or less	Owned		Not very likely			Likely
0000000107	16 to 25 years old	Owned		Not very likely		Likely	
0000000021	5 years or less	Owned		Not very likely			Likely
0000000040	5 years or less	Owned		Not very likely			Very likely
0000000109	6 to 10 years old	Owned		Not very likely			Very likely
0000000120	5 years or less	Owned		Not very likely			Very likely
0000000045	11 to 15 years old	Owned		Not very likely			Likely
0000000018	6 to 10 years old	Owned		Not very likely		Not at all likely	
0000000106	5 years or less	Owned		Not very likely			
0000000041	16 to 25 years old	Owned		Not very likely		Not very likely	
0000000113	6 to 10 years old	Owned		Not very likely			Likely
0000000029	6 to 10 years old	Owned		Likely			
0000000071	5 years or less	Owned		Likely			
0000000010	5 years or less	Owned		Likely			
0000000091	5 years or less	Owned		Likely			
0000000117	6 to 10 years old	Owned		Likely			
0000000114	5 years or less	Owned		Likely			
0000000123	6 to 10 years old	Owned		Likely			
0000000020	6 to 10 years old	Owned		Likely			
0000000100	5 years or less	Owned		Likely			
0000000122	DK/NS (DO NOT READ)	Owned		Likely			
0000000061	11 to 15 years old	Owned		Likely			
0000000105	5 years or less	Owned		Likely			
0000000014	6 to 10 years old	Owned		Likely			
0000000082	5 years or less	Owned		Likely			
0000000084	11 to 15 years old	Owned		Likely			
0000000087	6 to 10 years old	Owned		Likely			
0000000110	6 to 10 years old	Owned		Likely			
0000000121	5 years or less	Owned		Likely			
0000000124	6 to 10 years old	Owned		Likely			
0000000077	16 to 25 years old	Owned		Likely			
0000000075	6 to 10 years old	Owned		Likely			
0000000132	11 to 15 years old	Owned		Likely			
0000000051	6 to 10 years old	Owned		Likely			
0000000047	5 years or less	Owned		Likely			

RecordNo	H7. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a high efficiency natural gas furnace and adding ducting is likely to be about \$12,500 including taxes depending on the specific style and/or size of your premise. Another option would be to install a natural gas fireplace or space heater to heat the main living area, at an estimated cost of \$4,500 - \$5,500	H7a. Installing a high efficiency natural gas furnace is likely to cost about \$4,500-\$5,500 if you already have forced air ductwork and \$12,500 if you don't, including taxes. A natural gas fireplace or wall heater would also cost about \$4,500-\$5,500. In addition to the cost of converting your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the	H8. Installing a high efficiency natural gas furnace or boiler is likely to cost about \$4,500-\$5,500 if you already have forced air ductwork or a boiler, and \$12,500 if you were to install a new forced air system requiring ductwork, including taxes. Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500. In addition to the cost of converting your heating equipment, an average home would be required to make a	H9. Home owners with a heat pump heating and cooling system could consider using natural gas as a supplemental heating source. The cost of a high efficiency natural gas furnace is in the range of \$4,500 to \$5,500 including taxes. Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500. In addition to the cost of supplementing your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will
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Not at all likely

Not at all likely

Likely

RecordNo	H5 - WWH. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a natural gas high efficiency furnace or boiler is in the range of \$4,500 to \$5,500 including taxes depending on the type of equipment you currently have. In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save approximately Sandford = \$2,800 per year by switching space and water heating to natural gas. Savings are likely greater for businesses.	H5a - WWH. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a natural gas high efficiency furnace is in the range of \$4,500 to \$5,500 including taxes depending on the type of equipment you currently have. In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will	H6 - WWH. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting your existing heating system to natural gas is likely in the range of \$400 to \$1,000 including taxes depending on the type of equipment you currently have. In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save \$1,050 per year by switching space and water heating to natural gas. Savings are likely greater for businesses.
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Very likely

RecordNo	<p>H7 - WWH. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a high efficiency natural gas furnace and adding ducting is likely to be about \$12,500 including taxes depending on the specific style and/or size of your premise. Another option would be to install a natural gas fireplace or space heater to heat the main living area, at an estimated cost of \$4,500 - \$5,500</p> <p>In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save Sandford = \$200 per year by switching space and water heating to natural gas. Savings are likely greater for businesses.</p>	<p>H7a - WWH. Installing a high efficiency natural gas furnace is likely to cost about \$4,500-\$5,500 if you already have forced air ductwork and \$12,500 if it doesn't, including taxes. A natural gas fireplace or wall heater would also cost about \$4,500-\$5,500.</p> <p>In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how</p>	<p>H8 - WWH. Installing a high efficiency natural gas furnace or boiler is likely to cost about \$4,500-\$5,500 if you already have forced air ductwork or a boiler, and \$12,500 if you were to install a new forced air system requiring ductwork, including taxes.</p> <p>Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500.</p> <p>In addition to the cost of converting your SPACE AND</p>
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Extremely likely

Very likely
Very likely

RecordNo	H9 - WWH. Home owners with a heat pump heating and cooling system could consider using natural gas as a supplemental heating source. The cost of a high efficiency natural gas furnace is in the range of \$4,500 to \$5,500 including taxes. Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500. In addition to the cost of supplementing your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, a typical home costs Sandford = \$2,000 per year for water heating and to fully heat with natural gas. Cost would be less if using natural gas for supplemental heating only. The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per	H9a. You indicated that you are unlikely to convert your heating system to natural gas. Can you explain why? (PROBE) Are there any other reasons?	H9a. You indicated that you are unlikely to convert your heating system to natural gas. Can you explain why? (PROBE) Are there any other reasons? (VERBATIM ANSWERS FOR THOSE WHO ANSWERED "OTHER")	H9a. You indicated that you are unlikely to convert your heating system to natural gas. Can you explain why? (PROBE) Are there any other reasons? (VERBATIM ANSWERS FOR THOSE WHO ANSWERED "OTHER" - ADDITIONAL MENTIONS)	E1. You indicated that you are likely to convert to natural gas. Assuming gas service is available Prior to 2026, when would you likely convert?
000000565					
000000479		Not interested at this time/ maybe in the future			
000000540		Other: (SPECIFY)	I WOULD LOOK INTO HEAT PUMP BEFORE LOOKING INTO NATURAL GAS		
000000525		Other: (SPECIFY)	BECAUSE NO LINES COMING BY THE USE		
000000461					Within 1 to 2 years
000000564	Very likely				
000000430					Within the first 12 months
000000605					Within the first 12 months
000000500		Too expensive		Not interested at this time/ maybe in the future	
000000581					Within 1 to 2 years
000000086					Within 2 to 3 years
000000049					Within the first 12 months
000000079					Within the first 12 months
000000006		Not interested at this time/ maybe in the future			
000000072					Within the first 12 months
000000024					
000000016					Within the first 12 months
000000017					Within the first 12 months
000000011					Within 1 to 2 years
000000046					Within 2 to 3 years
000000099					Within the first 12 months
000000107					Within 1 to 2 years
000000021					Within the first 12 months
000000040					Within 1 to 2 years
000000109					Within the first 12 months
000000120					Within the first 12 months
000000045					Within the first 12 months
000000018		Too expensive			
000000106					
000000041		Other: (SPECIFY)	Natural gas\ wood furnace would be wanted		
000000113					Within 1 to 2 years
000000029					Within the first 12 months
000000071					Within the first 12 months
000000010					Within 2 to 3 years
000000091					Within the first 12 months
000000117		Other: (SPECIFY)	Pay back period may not be beneficial		
000000114					Within 1 to 2 years
000000123					Within 1 to 2 years
000000020					Within the first 12 months
000000100					Within 1 to 2 years
000000122					Within the first 12 months
000000061					Within 1 to 2 years
000000105					Within the first 12 months
000000014		Too expensive			
000000082					Within the first 12 months
000000084	Likely				
000000087					Within 1 to 2 years
000000110					Within the first 12 months
000000121					Within the first 12 months
000000124					Within the first 12 months
000000077					Within the first 12 months
000000075					Within the first 12 months
000000132					Within the first 12 months
000000051					Within 1 to 2 years
000000047					Within the first 12 months

RecordNo	E2. I am going to read you a list of appliances that could be powered by natural gas. For each appliance, please tell me if you would be extremely interested, very interested, interested, not very interested or not at all interested in natural gas for the appliance. [RANDOMIZE] Fireplace	E2 Oven, Range or Stove	E2 Clothes Dryer	E2 BBQ	E2 (Other, Specify)	E2 (Other, Specify)	E2 (Other, Specify)	D1. Which of the following best describes the style of your house? Is it a ...? oA bungalow or one-story ranch oA raised ranch oA split level oA two story oA three-story house	D2. In order to have some idea as to the approximate size of your home in square feet (not including any unfinished basement space) can you tell me how many square feet your home is? Please enter five 9s (99999) if you don't know	D3. In what year was your house built? Your best estimate is fine. [ENTER YEAR] Please enter 9999 if you Don't know
000000565								A two story	3468.00	1988.00
000000479								A bungalow or one story ranch	99999.00	1980.00
000000540								A two story	1300.00	1886.00
000000525										
000000461	Interested	Not very interested	DK/NS (DO NOT READ)	Not very interested	None/No other appliance			A bungalow or one story ranch	2100.00	1960.00
000000564								A bungalow or one story ranch	3000.00	1978.00
000000430	Extremely interested	Extremely interested	Not at all interested	Extremely interested	None/No other appliance			A two story	4000.00	2000.00
000000605	Extremely interested	Extremely interested	Extremely interested	Extremely interested	Other Appliance	GENERATOR	Extremely interested	A split level	1900.00	1980.00
000000500								A bungalow or one story ranch	1400.00	1973.00
000000581	Not at all interested	Not at all interested	Not at all interested	Interested	None/No other appliance			A bungalow or one story ranch	1300.00	1960.00
000000086	DK/NS (DO NOT READ)	DK/NS (DO NOT READ)	DK/NS (DO NOT READ)	DK/NS (DO NOT READ)	None/No other appliance			A two story	99999.00	9999.00
000000049	Not at all interested	Extremely interested	Not at all interested	Not at all interested	None/No other appliance			Some other style	6000.00	1972.00
000000079	Extremely interested	Extremely interested	Extremely interested	Extremely interested	Other Appliance	Boiler for radiant floor heat in shop	Extremely interested	A bungalow or one story ranch	2000.00	1985.00
000000006								A split level	1900.00	1974.00
000000072	Not at all interested	Not at all interested	Interested	Not at all interested	None/No other appliance			A two story	2400.00	1988.00
000000024								A two story	2500.00	1998.00
000000016	Not at all interested	Not at all interested	Not at all interested	Not at all interested	None/No other appliance			A two story	2000.00	1972.00
000000017	Not at all interested	Extremely interested	Not very interested	Extremely interested	None/No other appliance			A split level	2600.00	1974.00
000000011	Not at all interested	Not at all interested	Not at all interested	Not at all interested	None/No other appliance			A raised ranch	1400.00	1980.00
000000046	Not very interested	Very interested	Not very interested	Extremely interested	None/No other appliance			A bungalow or one story ranch	1500.00	1970.00
000000099	Not at all interested	Not very interested	Interested	Not at all interested	None/No other appliance			Some other style	1500.00	1911.00
000000107	Very interested	Very interested	Very interested	Not very interested	None/No other appliance			A bungalow or one story ranch	1200.00	1977.00
000000021	Not at all interested	Not very interested	Not very interested	Interested	None/No other appliance			A bungalow or one story ranch	2500.00	1983.00
000000040	Very interested	Not very interested	Not very interested	Very interested	None/No other appliance			A split level	1500.00	1985.00
000000109	Interested	Not very interested	Not very interested	Not very interested	None/No other appliance			A split level	1900.00	1970.00
000000120	Interested	Interested	Interested	Interested	None/No other appliance			A two story	1400.00	1973.00
000000045	Not at all interested	Not at all interested	Not at all interested	Not at all interested	None/No other appliance			A two story	2200.00	1978.00
000000018								A bungalow or one story ranch	1200.00	1973.00
000000106								A raised ranch	2700.00	1985.00
000000041								A split level	1260.00	1970.00
000000113	Not very interested	Not very interested	Not very interested	Interested	None/No other appliance			A raised ranch	2500.00	1980.00
000000029	Extremely interested	Interested	Interested	Not very interested	None/No other appliance			A split level	2200.00	1971.00
000000071	Very interested	Not very interested	Interested	Interested	None/No other appliance			A bungalow or one story ranch	1800.00	1976.00
000000010	Not very interested	Interested	Interested	Not at all interested	None/No other appliance			A split level	1500.00	1965.00
000000091	Interested	Not at all interested	Not at all interested	Not at all interested	None/No other appliance			A split level	1800.00	1975.00
000000117								A bungalow or one story ranch	4000.00	1997.00
000000114	DK/NS (DO NOT READ)	Extremely interested	Extremely interested	Extremely interested	None/No other appliance			A two story	1700.00	1980.00
000000123	Not at all interested	Interested	Interested	Interested	None/No other appliance			A two story	2700.00	1980.00
000000020	Extremely interested	Extremely interested	Not very interested	Extremely interested	None/No other appliance			A two story	1800.00	2007.00
000000100	Not at all interested	Not very interested	Very interested	Very interested	None/No other appliance			A two story	2800.00	1988.00
000000122	Very interested	Extremely interested	Not very interested	Extremely interested	None/No other appliance			A two story	2500.00	1970.00
000000061	Not very interested	Not very interested	Not very interested	Not very interested	None/No other appliance			A bungalow or one story ranch	3000.00	2009.00
000000105	Not at all interested	Extremely interested	Not at all interested	Extremely interested	None/No other appliance			A two story	2500.00	1930.00
000000014								A bungalow or one story ranch	1200.00	1975.00
000000082	Very interested	Extremely interested	Very interested	Extremely interested	None/No other appliance			A bungalow or one story ranch	2000.00	2005.00
000000084								Or a three story house	2000.00	1975.00
000000087	Extremely interested	Extremely interested	Very interested	Extremely interested	Other Appliance	heater in my backyard gym	Extremely interested	A two story	1650.00	1993.00
000000110	Not very interested	Not very interested	Not very interested	Not very interested	None/No other appliance			A bungalow or one story ranch	2000.00	1986.00
000000121	Very interested	Extremely interested	Extremely interested	Extremely interested	Other Appliance	commercial deep fryer	Extremely interested	A two story	2400.00	1940.00
000000124	Extremely interested	Not at all interested	Not very interested	Extremely interested	None/No other appliance			A two story	2000.00	2000.00
000000077	Extremely interested	Not very interested	Not very interested	Not very interested	None/No other appliance			A two story	2600.00	1999.00
000000075	Extremely interested	Extremely interested	Not at all interested	Not at all interested	None/No other appliance			A two story	3300.00	1995.00
000000132	Not very interested	Not at all interested	Not at all interested	Interested	None/No other appliance			A bungalow or one story ranch	1100.00	1965.00
000000051	Not at all interested	Extremely interested	Not at all interested	Extremely interested	Other Appliance	high eficiency furnace	Extremely interested	A two story	2000.00	9999.00
000000047	Interested	Interested	Interested	Very interested	None/No other appliance			A two story	99999.00	9999.00

RecordNo	D3a. Which statement best describes the occupancy of this dwelling? oOccupied all-year round oOccupied mostly in the summer months oOccupied mostly in the winter months oOccupied occasionally year round oDon't know	D3b. For approximately how many months did you use this residence during 2021?	D4. How many adults 18 years or over do you have living in your household, including yourself? Enter 99 if you would like to leave blank.	D5. And how many children 17 years or younger, if any, do you have living in your household? Enter 99 if you would like to leave blank.	D6. In what year were you born? [RECORD YEAR] Enter 9999 if you would like to leave blank.	D6a. Can you please tell me into which of the following age groups you fall? Are you...? o18 to 24 o25 to 34 o35 to 44 o45 to 54 o55 to 64 o65 or over	D7. And lastly, which of the following best describes your total household income before taxes? oUnder \$20,000 o\$20,000 to less than \$40,000 o\$40,000 to less than \$60,000 o\$60,000 to less than \$80,000 o\$80,000 to less than \$100,000	E2. What is the approximate square footage of the indoor floor space of the main building including basement and storage, but not including parking or loading areas?
000000565	Occupied all-year round		2.00	0.00	1956.00		\$60,000 to less than \$80,000	
000000479	Occupied all-year round		1.00	0.00	1985.00		\$40,000 to less than \$60,000	
000000540	Occupied all-year round		1.00	0.00	1965.00		\$80,000 to less than \$100,000	
000000525								2500.00
000000461	Occupied all-year round		2.00	0.00	1955.00		\$20,000 to less than \$40,000	
000000564	Occupied all-year round		99.00	99.00	9999.00	REFUSED	REFUSED	
000000430	Occupied all-year round		3.00	0.00	1963.00		Under \$20,000	
000000605	Occupied all-year round		2.00	2.00	1967.00		\$140,000 or more	
000000500	Occupied all-year round		2.00	0.00	1940.00		\$80,000 to less than \$100,000	
000000581	Occupied all-year round		1.00	0.00	1950.00		\$60,000 to less than \$80,000	
000000086	Occupied all-year round		1.00	2.00	9999.00	55 to 64	REFUSED	
000000049	Occupied all-year round		4.00	3.00	1957.00		\$120,000 to less than \$140,000	
000000079	Occupied all-year round		4.00	2.00	1981.00		\$120,000 to less than \$140,000	
000000006	Occupied all-year round		2.00	0.00	1965.00		\$140,000 or more	
000000072	Occupied all-year round		4.00	0.00	1956.00		\$100,000 to less than \$120,000	
000000024	Occupied all-year round		2.00	0.00	1969.00		\$140,000 or more	
000000016	Occupied all-year round		2.00	0.00	1945.00		REFUSED	
000000017	Occupied all-year round		4.00	0.00	1967.00		\$120,000 to less than \$140,000	
000000011	Occupied all-year round		3.00	0.00	1959.00		\$140,000 or more	
000000046	Occupied all-year round		2.00	1.00	1987.00		\$140,000 or more	
000000099	Occupied all-year round		3.00	1.00	1973.00		REFUSED	
000000107	Occupied all-year round		2.00	0.00	9999.00	55 to 64	REFUSED	
000000021	Occupied all-year round		2.00	3.00	1978.00		REFUSED	
000000040	Occupied all-year round		2.00	1.00	1978.00		REFUSED	
000000109	Occupied all-year round		3.00	0.00	9999.00	65 or over	REFUSED	
000000120	Occupied all-year round		2.00	2.00	1984.00		\$80,000 to less than \$100,000	
000000045	Occupied all-year round		3.00	0.00	9999.00	35 to 44	\$100,000 to less than \$120,000	
000000018	Occupied all-year round		1.00	0.00	1965.00		REFUSED	
000000106	Occupied all-year round		3.00	99.00	9999.00	REFUSED	REFUSED	
000000041	Occupied all-year round		3.00	0.00	1949.00		\$40,000 to less than \$60,000	
000000113	Occupied all-year round		3.00	99.00	1959.00		\$140,000 or more	
000000029	Occupied all-year round		2.00	0.00	9999.00	65 or over	REFUSED	
000000071	Occupied all-year round		2.00	2.00	1979.00		\$140,000 or more	
000000010	Occupied all-year round		2.00	2.00	1988.00		REFUSED	
000000091	Occupied all-year round		4.00	0.00	1954.00		\$140,000 or more	
000000117	Occupied all-year round		3.00	0.00	1966.00		REFUSED	
000000114	Occupied all-year round		2.00	3.00	1983.00		\$100,000 to less than \$120,000	
000000123	Occupied all-year round		2.00	3.00	1983.00		REFUSED	
000000020	Occupied all-year round		3.00	0.00	1996.00		\$60,000 to less than \$80,000	
000000100	Occupied all-year round		2.00	3.00	1989.00		\$120,000 to less than \$140,000	
000000122	Occupied all-year round		1.00	1.00	1977.00		\$100,000 to less than \$120,000	
000000061	Occupied all-year round		2.00	0.00	1965.00		\$100,000 to less than \$120,000	
000000105	Occupied all-year round		2.00	0.00	1960.00		REFUSED	
000000014	Occupied all-year round		2.00	0.00	1945.00		\$60,000 to less than \$80,000	
000000082	Occupied all-year round		2.00	3.00	1982.00		\$140,000 or more	
000000084	Occupied all-year round		2.00	1.00	1979.00		REFUSED	
000000087	Occupied all-year round		2.00	0.00	1984.00		\$140,000 or more	
000000110	Occupied all-year round		1.00	0.00	1955.00		REFUSED	
000000121	Occupied all-year round		4.00	99.00	9999.00	45 to 54	REFUSED	
000000124	Occupied all-year round		2.00	0.00	9999.00	65 or over	REFUSED	
000000077	Occupied all-year round		4.00	0.00	1966.00		\$100,000 to less than \$120,000	
000000075	Occupied all-year round		3.00	0.00	1958.00		\$140,000 or more	
000000132	Occupied all-year round		2.00	99.00	1950.00		REFUSED	
000000051	Occupied all-year round		2.00	0.00	9999.00	REFUSED	REFUSED	
000000047	Occupied all-year round		99.00	99.00	9999.00	REFUSED	REFUSED	

RecordNo	E3. What is the age of the main building at this location (of the first/second/third building)?	DB3. How many floors does the building have? Enter 999 if Don't know	E1. How many buildings (are at this location?)	E1. How many buildings (are at this location?) - Other (Specify)
	o1 YEAR OR LESS, o2 TO 5 YEARS,		oOne oTwo oThree oOther (Specify) ____ oPart of a building	

000000565
 000000479
 000000540
 000000525 More than 40 years old 2.00
 000000461
 000000564
 000000430
 000000605
 000000500
 000000581
 000000086
 000000049
 000000079
 000000006
 000000072
 000000024
 000000016
 000000017
 000000011
 000000046
 000000099
 000000107
 000000021
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 000000120
 000000045
 000000018
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 000000029
 000000071
 000000010
 000000091
 000000117
 000000114
 000000123
 000000020
 000000100
 000000122
 000000061
 000000105
 000000014
 000000082
 000000084
 000000087
 000000110
 000000121
 000000124
 000000077
 000000075
 000000132
 000000051
 000000047

RecordNo	LastCallDate	COMMUNITY	SCR3. Do you own or rent this property?	SCR5. Which of the following best describes the building (or buildings) at this location?	SCR6. On average, how much is your annual heating cost for this premise including taxes? Please enter 99999 if you would like to leave blank	H1A. What is the primary energy source of heat for this premise? Is it...?	H1A. Other [SPECIFY]	H1B. What type of system provides the primary source of heat for this premise? Is it...? (RESPONSES FOR OIL)	H1B. What type of system provides the primary source of heat for this premise? Is it...? (RESPONSES FOR PROPANE)
000000126	20220911	Sandford	Own	Residential	99999.00	Oil		Oil Forced Air	
000000007	20220823	Sandford	Own	Residential	4500.00	Propane			Propane Forced Air
000000129	20220911	Sandford	Own	Residential	2500.00	Propane			Propane Forced Air
000000062	20220901	Sandford	Own	Residential	99999.00	Propane			Propane Forced Air
000000005	20220823	Sandford	Own	Residential	5000.00	Oil		Oil Forced Air	
000000015	20220823	Sandford	Own	Residential	3000.00	Propane			Propane Forced Air
000000088	20220904	Sandford	Own	Residential	2500.00	Propane			Propane Forced Air
000000104	20220906	Sandford	Own	Residential	10000.00	Oil		Oil Forced Air	
000000012	20220823	Sandford	Own	Residential	3000.00	Oil		Oil Forced Air	
000000093	20220904	Sandford	Own	Farm	20000.00	Oil		Oil Boiler (Hot Water Radiators)	
000000085	20220903	Sandford	Own	Residential	4140.00	Propane			Propane Forced Air
000000013	20220823	Sandford	Own	Residential	3500.00	Propane			Propane Forced Air
000000030	20220825	Sandford	Own	Residential	1200.00	Oil		Oil Forced Air	
000000036	20220825	Sandford	Own	Residential	2000.00	Propane			Propane Forced Air
000000054	20220831	Sandford	Own	Residential	2100.00	Propane			Propane Forced Air
000000081	20220903	Sandford	Own	Residential	8000.00	Heat pump such as a geothermal system			
000000074	20220903	Sandford	Own	Residential	4000.00	Propane			Propane Forced Air
000000076	20220903	Sandford	Own	Residential	1300.00	Propane			Propane Forced Air
000000019	20220823	Sandford	Own	Residential	3500.00	Oil		Oil Forced Air	
000000025	20220825	Sandford	Own	Residential	5000.00	Oil		Oil Forced Air	
000000031	20220825	Sandford	Own	Residential	8000.00	Oil		Oil Forced Air	
000000108	20220907	Sandford	Own	Residential	4500.00	Propane			Propane Forced Air
000000059	20220831	Sandford	Own	Residential	6000.00	Propane			Propane Forced Air
000000060	20220831	Sandford	Own	Residential	4500.00	Oil		Oil Forced Air	
000000044	20220826	Sandford	Own	Residential	4500.00	Oil		Oil Forced Air	
000000130	20220912	Sandford	Own	Residential	3000.00	Oil		Oil Forced Air	
000000038	20220825	Sandford	Own	Residential	5000.00	Oil		Oil Forced Air	
000000043	20220826	Sandford	Own	Residential	4000.00	Oil		Oil Forced Air	
000000111	20220908	Sandford	Own	Residential	2000.00	Oil		Oil Forced Air	
000000112	20220908	Sandford	Own	Residential	3000.00	Oil		Oil Forced Air	
000000039	20220825	Sandford	Own	Residential	2000.00	Oil		Oil Forced Air	
000000131	20220912	Sandford	Own	Residential	2500.00	Propane			Propane Forced Air
000000056	20220831	Sandford	Own	Residential	3500.00	Oil		Oil Forced Air	
000000097	20220906	Sandford	Own	Residential	2400.00	Propane			Propane Forced Air
000000048	20220829	Sandford	Own	Residential	6000.00	Propane			Propane Forced Air
000000115	20220908	Sandford	Own	Residential	99999.00	Propane			Propane Forced Air
000000101	20220906	Sandford	Own	Residential	5000.00	Propane			Propane Forced Air
000000083	20220903	Sandford	Own	Residential	4000.00	Propane			Propane Forced Air
000000089	20220904	Sandford	Own	Residential	4000.00	Oil		Oil Forced Air	
000000133	20220911	Sandford	Own	Residential	99999.00	Propane			Propane Forced Air
000000035	20220825	Sandford	Own	Residential	1600.00	Oil		Oil Forced Air	
000000102	20220906	Sandford	Own	Residential	3000.00	Propane			Propane Forced Air
000000042	20220825	Sandford	Own	Residential	2500.00	Propane			Propane Forced Air
000000127	20220911	Sandford	Own	Residential	99999.00	Propane			Propane Forced Air
000000037	20220825	Sandford	Own	Residential	2500.00	Propane			Propane Forced Air
000000078	20220903	Sandford	Own	Residential	2400.00	Propane			Propane Forced Air
000000064	20220901	Sandford	Own	Residential	4000.00	Propane			Propane Forced Air
000000095	20220905	Sandford	Own	Residential	6000.00	Oil		Oil Forced Air	
000000022	20220825	Sandford	Own	Residential	7000.00	Propane			Propane Forced Air
000000023	20220825	Sandford	Own	Residential	99999.00	Propane			Propane Forced Air
000000092	20220904	Sandford	Own	Farm	4000.00	Propane			Propane Forced Air
000000063	20220901	Sandford	Own	Residential	2000.00	Propane			Propane Forced Air
000000116	20220908	Sandford	Own	Residential	2000.00	Propane			Propane Forced Air

RecordNo	H1B. What type of system provides the primary source of heat for this premise? Is it...? (RESPONSES FOR ELECTRICITY)	H1B. What type of system provides the primary source of heat for this premise? Is it...? (RESPONSES FOR WOOD)	New 1. What kind of heat pump do you have?	New 2. How knowledgeable would you say that you are about heat pumps including air source heat pumps, geothermal or ground source heating and cooling systems for homes?	New 3: How likely would you be to seek out more information about installing a heat pump heating and cooling system for your home?	H2. How old is your heating system? Enter 98 if LESS THAN ONE YEAR. Enter 99 if Don't know	H3. How likely are you to replace your heating system in the next 2 years? Are you...? Extremely likely, Very likely, Likely, Not very likely, Not at all likely	W1. What is the MAIN fuel source for heating your water?	W1 (Other)
000000126		Wood Stoves/Fireplace		Somewhat knowledgeable	Very likely	99.00	Extremely likely	Electricity	
000000007				Not very knowledgeable	Not very likely	2.00	Not at all likely	Propane	
000000129				Not very knowledgeable	Very likely	2.00	Not very likely	Propane	
000000062				Somewhat knowledgeable	Likely	4.00	Not at all likely	Propane	
000000005				Somewhat knowledgeable	Likely	16.00	Not at all likely	Oil	
000000015				Not very knowledgeable	Not at all likely	18.00	Likely	Electricity	
000000088				Likely	Likely	20.00	Not very likely	Propane	
000000104				Somewhat knowledgeable	Very likely	20.00	Extremely likely	Electricity	
000000012				Somewhat knowledgeable	Not very likely	37.00	Not at all likely	Electricity	
000000093				Somewhat knowledgeable	Not very likely	1.00	Likely	Oil	
000000085				Not very knowledgeable	Not at all likely	3.00	Not at all likely	Propane	
000000013				Very knowledgeable	Likely	4.00	Not at all likely	Electricity	
000000030				Not very knowledgeable	Likely	4.00	Not at all likely	Electricity	
000000036				Very knowledgeable	Not at all likely	4.00	Not at all likely	Propane	
000000054				Very knowledgeable	Not at all likely	4.00	Extremely likely	Propane	
000000081			Geothermal or ground source heat pump			5.00	Not very likely	Electricity	
000000074				Somewhat knowledgeable	Extremely likely	9.00	Not at all likely	Propane	
000000076				Somewhat knowledgeable	Extremely likely	9.00	Not very likely	Propane	
000000019				Somewhat knowledgeable	Not very likely	10.00	Not at all likely	Electricity	
000000025				Somewhat knowledgeable	Likely	10.00	Not at all likely	Electricity	
000000031				Not very knowledgeable	Very likely	13.00	Not very likely	Electricity	
000000108				Somewhat knowledgeable	Likely	15.00	Very likely	Electricity	
000000059				Somewhat knowledgeable	Not at all likely	18.00	Extremely likely	Propane	
000000060				Somewhat knowledgeable	Very likely	18.00	Extremely likely	Oil	
000000044				Somewhat knowledgeable	Extremely likely	25.00	Very likely	Electricity	
000000130				Not very knowledgeable	Don't Know	25.00	Extremely likely	Oil	
000000038				Not very knowledgeable	Not at all likely	30.00	DK/NS (DO NOT READ)	Oil	
000000043				Somewhat knowledgeable	Extremely likely	30.00	Very likely	Oil	
000000111				Not very knowledgeable	Not at all likely	37.00	DK/NS (DO NOT READ)	Electricity	
000000112				Not very knowledgeable	Likely	38.00	Not very likely	Oil	
000000039				Somewhat knowledgeable	Very likely	48.00	Extremely likely	Electricity	
000000131				Somewhat knowledgeable	Very likely	98.00	Not at all likely	Electricity	
000000056				Not very knowledgeable	Not at all likely	15.00	Not at all likely	Electricity	
000000097				Not very knowledgeable	Don't Know	2.00	Not very likely	Electricity	
000000048				Not very knowledgeable	Likely	4.00	Not very likely	Electricity	
000000115				Not very knowledgeable	Don't Know	4.00	Not at all likely	Propane	
000000101				Not very knowledgeable	Likely	17.00	Extremely likely	Electricity	
000000083				Somewhat knowledgeable	Not very likely	3.00	Not very likely	Electricity	
000000089				Somewhat knowledgeable	Very likely	99.00	DK/NS (DO NOT READ)	Electricity	
000000133				Somewhat knowledgeable	Very likely	5.00	Extremely likely	Propane	
000000035				Not very knowledgeable	Not at all likely	13.00	Very likely	Electricity	
000000102				Not very knowledgeable	Likely	24.00	DK/NS (DO NOT READ)	Propane	
000000042				Somewhat knowledgeable	Likely	2.00	Not at all likely	Propane	
000000127				Somewhat knowledgeable	Not very likely	5.00	Not very likely	Propane	
000000037				Not very knowledgeable	Not at all likely	6.00	Not at all likely	Propane	
000000078				Somewhat knowledgeable	Extremely likely	7.00	Likely	Propane	
000000064				Somewhat knowledgeable	Don't Know	15.00	Likely	Electricity	
000000095				Somewhat knowledgeable	Not very likely	45.00	Very likely	Electricity	
000000022				Not very knowledgeable	Likely	98.00	Not at all likely	Propane	
000000023				Not very knowledgeable	Not very likely	98.00	Not at all likely	Electricity	
000000092				Very knowledgeable	Not at all likely	98.00	Not at all likely	Electricity	
000000063				Never heard of it	Don't Know	5.00	DK/NS (DO NOT READ)	Electricity	
000000116				Not very knowledgeable	Not very likely	12.00	Not at all likely	Electricity	

RecordNo	W2. How old is your water heater?	W3. Is your water heater owned or rented?	W5. The purchase and installation of a typical natural gas water heater costs about \$1,700 including taxes depending on the complexity of the installation. However, with natural gas, you could save up to ALL = \$250 compared to propane water heating costs every year, or Selwyn, Hidden Valley, Neustadt, Sandford = \$50 / Cherry Valley = \$15 compared to electric water heating costs. The federal carbon pricing program will result in increases to	W5a. Natural Gas water heaters can also be rented. Typical monthly rental rates range from \$23 per month to \$30 per month including taxes. Depending on the specific style of your premises, the property owner may incur additional expenses for the conversion. However, with natural gas, you could save up to ALL = \$250 compared to propane water heating costs every year, or Sandford = \$50 compared to electric water heating costs.	H5. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a natural gas high efficiency furnace or boiler is in the range of \$4,500 to \$5,500 including taxes depending on the type of equipment you currently have. In addition to the cost of converting your heating equipment, an average home would be required to make a financial	H5a. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a natural gas high efficiency furnace is in the range of \$4,500 to \$5,500 including taxes depending on the type of equipment you currently have. In addition to the cost of converting your heating	H6. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting your existing heating system to natural gas is likely in the range of \$400 to \$1,000 including taxes depending on the type of equipment you currently have. In addition to the cost of converting your heating equipment, an average home would be required to
000000126	11 to 15 years old	Owned	Likely				
000000007	5 years or less	Owned	Very likely				
000000129	11 to 15 years old	Owned	Very likely				
000000062	5 years or less	Owned	Very likely				
000000005	16 to 25 years old	Owned	Very likely				
000000015	16 to 25 years old	Owned	Very likely				
000000088	5 years or less	Owned	Very likely				
000000104	5 years or less	Owned	Very likely				
000000012	6 to 10 years old	Owned	Very likely				
000000093	16 to 25 years old	Owned	Extremely likely				
000000085	5 years or less	Owned	Extremely likely				
000000013	11 to 15 years old	Owned	Extremely likely				
000000030	5 years or less	Owned	Extremely likely				
000000036	5 years or less	Owned	Extremely likely				
000000054	5 years or less	Owned	Extremely likely				
000000081	6 to 10 years old	Owned	Extremely likely				
000000074	6 to 10 years old	Owned	Extremely likely				
000000076	5 years or less	Owned	Extremely likely				
000000019	5 years or less	Owned	Extremely likely				
000000025	11 to 15 years old	Owned	Extremely likely				
000000031	DK/NS (DO NOT READ)	Owned	Extremely likely				
000000108	11 to 15 years old	Owned	Extremely likely				
000000059	5 years or less	Owned	Extremely likely				
000000060	16 to 25 years old	Owned	Extremely likely				
000000044	6 to 10 years old	Owned	Extremely likely				
000000130	6 to 10 years old	Owned	Extremely likely				
000000038	6 to 10 years old	Owned	Extremely likely				
000000043	DK/NS (DO NOT READ)	Owned	Extremely likely				
000000111	16 to 25 years old	Owned	Extremely likely				
000000112	5 years or less	Owned	Extremely likely				
000000039	5 years or less	Owned	Extremely likely				
000000131	5 years or less	Owned	Extremely likely				
000000056	5 years or less	Rented		Not at all likely	Not at all likely		
000000097	6 to 10 years old	Rented		Not very likely			Extremely likely
000000048	16 to 25 years old	Rented		Not very likely			Likely
000000115	6 to 10 years old	Rented		Not very likely			Likely
000000101	6 to 10 years old	Rented		Not very likely			Not very likely
000000083	5 years or less	Rented		Likely			
000000089	5 years or less	Rented		Likely			
000000133	5 years or less	Rented		Very likely			
000000035	6 to 10 years old	Rented		Very likely			
000000102	6 to 10 years old	Rented		Very likely			
000000042	5 years or less	Rented		Extremely likely			
000000127	5 years or less	Rented		Extremely likely			
000000037	16 to 25 years old	Rented		Extremely likely			
000000078	16 to 25 years old	Rented		Extremely likely			
000000064	5 years or less	Rented		Extremely likely			
000000095	5 years or less	Rented		Extremely likely			
000000022	5 years or less	Rented		Extremely likely			
000000023	6 to 10 years old	Rented		Extremely likely			
000000092	5 years or less	Rented		Extremely likely			
000000063	5 years or less	DK/NS (DO NOT READ)					Very likely
000000116	6 to 10 years old	DK/NS (DO NOT READ)					Very likely

RecordNo	H7. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a high efficiency natural gas furnace and adding ducting is likely to be about \$12,500 including taxes depending on the specific style and/or size of your premise. Another option would be to install a natural gas fireplace or space heater to heat the main living area, at an estimated cost of \$4,500 - \$5,500	H7a. Installing a high efficiency natural gas furnace is likely to cost about \$4,500-\$5,500 if you already have forced air ductwork and \$12,500 if you don't, including taxes. A natural gas fireplace or wall heater would also cost about \$4,500-\$5,500. In addition to the cost of converting your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the	H8. Installing a high efficiency natural gas furnace or boiler is likely to cost about \$4,500-\$5,500 if you already have forced air ductwork or a boiler, and \$12,500 if you were to install a new forced air system requiring ductwork, including taxes. Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500. In addition to the cost of converting your heating equipment, an average home would be required to make a	H9. Home owners with a heat pump heating and cooling system could consider using natural gas as a supplemental heating source. The cost of a high efficiency natural gas furnace is in the range of \$4,500 to \$5,500 including taxes. Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500. In addition to the cost of supplementing your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will
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RecordNo	H5 - WWH. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a natural gas high efficiency furnace or boiler is in the range of \$4,500 to \$5,500 including taxes depending on the type of equipment you currently have. In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save approximately Sandford = \$2,800 per year by switching space and water heating to natural gas. Savings are likely greater for businesses.	H5a - WWH. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a natural gas high efficiency furnace is in the range of \$4,500 to \$5,500 including taxes depending on the type of equipment you currently have. In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will	H6 - WWH. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting your existing heating system to natural gas is likely in the range of \$400 to \$1,000 including taxes depending on the type of equipment you currently have. In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save \$1,050 per year by switching space and water heating to natural gas. Savings are likely greater for businesses.
000000126	Very likely		
000000007			Extremely likely
000000129			Very likely
000000062			Very likely
000000005	Very likely		
000000015			Very likely
000000088			Very likely
000000104	Extremely likely		
000000012	Very likely		
000000093	Extremely likely		
000000085			Extremely likely
000000013			Very likely
000000030	Extremely likely		
000000036			Extremely likely
000000054			Extremely likely
000000081			
000000074			Likely
000000076			Very likely
000000019	Extremely likely		
000000025	Extremely likely		
000000031	Extremely likely		
000000108			Extremely likely
000000059			Not very likely
000000060	Extremely likely		
000000044	Very likely		
000000130	Extremely likely		
000000038	Extremely likely		
000000043	Extremely likely		
000000111	Likely		
000000112	Extremely likely		
000000039	Extremely likely		
000000131			Extremely likely
000000056			
000000097			
000000048			
000000115			
000000101			
000000083			Likely
000000089	Very likely		
000000133			Very likely
000000035	Very likely		
000000102			Likely
000000042			Extremely likely
000000127			Very likely
000000037			Extremely likely
000000078			Extremely likely
000000064			Extremely likely
000000095	Extremely likely		
000000022			Extremely likely
000000023			Very likely
000000092			Extremely likely
000000063			
000000116			

RecordNo	H7 - WWH. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a high efficiency natural gas furnace and adding ducting is likely to be about \$12,500 including taxes depending on the specific style and/or size of your premise. Another option would be to install a natural gas fireplace or space heater to heat the main living area, at an estimated cost of \$4,500 - \$5,500 In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save Sandford = \$200 per year by switching space and water heating to natural gas. Savings are likely greater for businesses.	H7a - WWH. Installing a high efficiency natural gas furnace is likely to cost about \$4,500-\$5,500 if you already have forced air ductwork and \$12,500 if it doesn't, including taxes. A natural gas fireplace or wall heater would also cost about \$4,500-\$5,500. In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how	H8 - WWH. Installing a high efficiency natural gas furnace or boiler is likely to cost about \$4,500-\$5,500 if you already have forced air ductwork or a boiler, and \$12,500 if you were to install a new forced air system requiring ductwork, including taxes. Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500. In addition to the cost of converting your SPACE AND
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000000126
 000000007
 000000129
 000000062
 000000005
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 000000104
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 000000013
 000000030
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 000000111
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RecordNo	H9 - WWH. Home owners with a heat pump heating and cooling system could consider using natural gas as a supplemental heating source. The cost of a high efficiency natural gas furnace is in the range of \$4,500 to \$5,500 including taxes. Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500. In addition to the cost of supplementing your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, a typical home costs Sandford = \$2,000 per year for water heating and to fully heat with natural gas. Cost would be less if using natural gas for supplemental heating only. The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per	H9a. You indicated that you are unlikely to convert your heating system to natural gas. Can you explain why? (PROBE) Are there any other reasons?	H9a. You indicated that you are unlikely to convert your heating system to natural gas. Can you explain why? (PROBE) Are there any other reasons? (VERBATIM ANSWERS FOR THOSE WHO ANSWERED "OTHER")	H9a. You indicated that you are unlikely to convert your heating system to natural gas. Can you explain why? (PROBE) Are there any other reasons? (VERBATIM ANSWERS FOR THOSE WHO ANSWERED "OTHER" - ADDITIONAL MENTIONS)	E1. You indicated that you are likely to convert to natural gas. Assuming gas service is available Prior to 2026, when would you likely convert?
000000126					Within 1 to 2 years
000000007					Within 1 to 2 years
000000129					Within 2 to 3 years
000000062					Within the first 12 months
000000005					Within 1 to 2 years
000000015					Within the first 12 months
000000088					Within the first 12 months
000000104					Within 1 to 2 years
000000012					Within 1 to 2 years
000000093					Within the first 12 months
000000085					Within the first 12 months
000000013					Within 1 to 2 years
000000030					Within the first 12 months
000000036					Within the first 12 months
000000054					Within the first 12 months
000000081	Extremely likely				
000000074					Within 1 to 2 years
000000076					Within 1 to 2 years
000000019					Within the first 12 months
000000025					Within the first 12 months
000000031					Within the first 12 months
000000108					Within the first 12 months
000000059		Too expensive		Plan on building a new home (or facility) / moving	
000000060					Within the first 12 months
000000044					Within the first 12 months
000000130					Within the first 12 months
000000038					Within the first 12 months
000000043					Within the first 12 months
000000111					Within the first 12 months
000000112					Within the first 12 months
000000039					Within the first 12 months
000000131					Within the first 12 months
000000056			Plan on building a new home (or facility) / moving		
000000097					Within the first 12 months
000000048					Within 1 to 2 years
000000115					After 3 years
000000101					
000000083					Within the first 12 months
000000089					Within the first 12 months
000000133					Within the first 12 months
000000035					Within the first 12 months
000000102					Within 2 to 3 years
000000042					Within the first 12 months
000000127					Within the first 12 months
000000037					Within the first 12 months
000000078					Within the first 12 months
000000064					Within the first 12 months
000000095					Within the first 12 months
000000022					Within the first 12 months
000000023					Within the first 12 months
000000092					Within the first 12 months
000000063					Within the first 12 months
000000116					Within 1 to 2 years
		Not interested at this time/ maybe in the future			

RecordNo	E2. I am going to read you a list of appliances that could be powered by natural gas. For each appliance, please tell me if you would be extremely interested, very interested, interested, not very interested or not at all interested in natural gas for the appliance. [RANDOMIZE] Fireplace	E2 Oven, Range or Stove	E2 Clothes Dryer	E2 BBQ	E2 (Other, Specify)	E2 (Other, Specify)	E2 (Other, Specify)	D1. Which of the following best describes the style of your house? Is it a ...? oA bungalow or one-story ranch oA raised ranch oA split level oA two story oA three-story house	D2. In order to have some idea as to the approximate size of your home in square feet (not including any unfinished basement space) can you tell me how many square feet your home is? Please enter five 9s (99999) if you don't know	D3. In what year was your house built? Your best estimate is fine. [ENTER YEAR] Please enter 9999 if you Don't know
000000126	Interested	Interested	Interested	DK/NS (DO NOT READ)	None/No other appliance			A two story	9999.00	9999.00
000000007	Extremely interested	Not very interested	Very interested	Not very interested	None/No other appliance			A split level	2200.00	1950.00
000000129	Very interested	Interested	Not very interested	Very interested	None/No other appliance			A split level	2400.00	1976.00
000000062	Very interested	Very interested	Very interested	Very interested	None/No other appliance			A two story	2500.00	1985.00
000000005	Not at all interested	Not at all interested	Interested	Extremely interested	None/No other appliance			A split level	1800.00	1973.00
000000015	Very interested	Interested	Very interested	Very interested	None/No other appliance			A bungalow or one story ranch	2500.00	2004.00
000000088	Extremely interested	Extremely interested	Extremely interested	Very interested	None/No other appliance			A two story	2700.00	2000.00
000000104	Extremely interested	Extremely interested	Not very interested	Extremely interested	None/No other appliance			A split level	2000.00	1950.00
000000012	Not at all interested	Not very interested	Not very interested	Not very interested	None/No other appliance			A bungalow or one story ranch	1500.00	1968.00
000000093	Extremely interested	Extremely interested	Extremely interested	Extremely interested	None/No other appliance					
000000085	Extremely interested	Extremely interested	Not at all interested	Extremely interested	Other Appliance	pool heater	Extremely interested	A two story	3000.00	1996.00
000000013	Not at all interested	Extremely interested	Not at all interested	Extremely interested	None/No other appliance			A bungalow or one story ranch	1200.00	1967.00
000000030	Extremely interested	Not at all interested	Interested	Not at all interested	None/No other appliance			A bungalow or one story ranch	1200.00	1960.00
000000036	Extremely interested	Extremely interested	Interested	Extremely interested	None/No other appliance			A two story	2000.00	1998.00
000000054	Not at all interested	Not at all interested	Not at all interested	Extremely interested	Other Appliance	Furance and water heater	Extremely interested	A two story	1500.00	1890.00
000000081								Or a three story house	3200.00	2018.00
000000074	Extremely interested	Not at all interested	Extremely interested	Extremely interested	Other Appliance	Generator	Extremely interested	A two story	2800.00	1995.00
000000076	Extremely interested	Extremely interested	Not at all interested	Extremely interested	None/No other appliance			A two story	2000.00	1980.00
000000019	Not at all interested	Interested	Very interested	Not at all interested	None/No other appliance			A bungalow or one story ranch	1200.00	1970.00
000000025	Very interested	Not very interested	Not very interested	Very interested	None/No other appliance			A bungalow or one story ranch	1200.00	1970.00
000000031	Very interested	Very interested	Interested	Very interested	None/No other appliance			A two story	9999.00	1897.00
000000108	Extremely interested	Extremely interested	Extremely interested	Extremely interested	Other Appliance	Fireplace	Extremely interested	A two story	3200.00	1992.00
000000059								A bungalow or one story ranch	2000.00	2004.00
000000060	Extremely interested	Interested	Not at all interested	Extremely interested	Other Appliance	Heat in garage	Extremely interested	A two story	2100.00	1986.00
000000044	Not very interested	Very interested	Not very interested	Not at all interested	None/No other appliance			A two story	3500.00	1987.00
000000130	Not very interested	Extremely interested	Extremely interested	Extremely interested	None/No other appliance			A two story	2400.00	1988.00
000000038	Extremely interested	Extremely interested	Extremely interested	Not at all interested	None/No other appliance			A bungalow or one story ranch	1300.00	1976.00
000000043	Interested	Very interested	Very interested	Very interested	None/No other appliance			A two story	2000.00	1975.00
000000111	Very interested	Not at all interested	DK/NS (DO NOT READ)	Not at all interested	None/No other appliance			A bungalow or one story ranch	1800.00	1968.00
000000112	Interested	Very interested	Interested	Very interested	None/No other appliance			A split level	2000.00	1968.00
000000039	Very interested	Interested	Interested	Extremely interested	Other Appliance	Pool heater	Extremely interested	A split level	1600.00	1977.00
000000131	DK/NS (DO NOT READ)	Not very interested	DK/NS (DO NOT READ)	Extremely interested	None/No other appliance			A two story	1550.00	1994.00
000000056								A two story	2100.00	1977.00
000000097	Interested	Interested	Interested	Interested	None/No other appliance			A split level	1850.00	1970.00
000000048	Interested	Interested	Interested	Not at all interested	None/No other appliance			Or a three story house	2500.00	1975.00
000000115	Interested	Not at all interested	Not at all interested	Not very interested	None/No other appliance			A two story	2800.00	1999.00
000000101								A two story	4000.00	2005.00
000000083	Extremely interested	Extremely interested	Very interested	Extremely interested	None/No other appliance			A two story	2500.00	1990.00
000000089	Interested	Interested	Interested	Not at all interested	Other Appliance	Hot tub	Interested	A two story	1800.00	1890.00
000000133	Not very interested	Extremely interested	Extremely interested	Not very interested	None/No other appliance			A two story	2000.00	9999.00
000000035	Not at all interested	Interested	Very interested	Interested	None/No other appliance			A two story	1500.00	1969.00
000000102	Very interested	Not very interested	Not at all interested	Not at all interested	None/No other appliance			A two story	3800.00	1998.00
000000042	Not at all interested	Not very interested	Not very interested	Extremely interested	None/No other appliance			A two story	2000.00	1999.00
000000127	Extremely interested	Extremely interested	Not at all interested	Not at all interested	None/No other appliance			A two story	2300.00	1999.00
000000037	Extremely interested	Interested	Not very interested	Extremely interested	None/No other appliance			A two story	2400.00	1998.00
000000078	Extremely interested	Very interested	Not at all interested	Extremely interested	None/No other appliance			A two story	3200.00	1998.00
000000064	DK/NS (DO NOT READ)	Extremely interested	Very interested	Extremely interested	None/No other appliance			A two story	2400.00	1986.00
000000095	Not at all interested	Extremely interested	Interested	Extremely interested	None/No other appliance			A bungalow or one story ranch	1500.00	1977.00
000000022	Interested	Extremely interested	Extremely interested	Extremely interested	None/No other appliance			A bungalow or one story ranch	2700.00	2001.00
000000023	Extremely interested	Very interested	Extremely interested	Extremely interested	None/No other appliance			A split level	9999.00	9999.00
000000092	Not at all interested	Not at all interested	Very interested	Extremely interested	None/No other appliance					
000000063	Interested	Very interested	Interested	DK/NS (DO NOT READ)	None/No other appliance			A two story	2500.00	1993.00
000000116	Extremely interested	Not at all interested	Not at all interested	Extremely interested	None/No other appliance			A two story	2200.00	1997.00

RecordNo	D3a. Which statement best describes the occupancy of this dwelling? oOccupied all-year round oOccupied mostly in the summer months oOccupied mostly in the winter months oOccupied occasionally year round oDon't know	D3b. For approximately how many months did you use this residence during 2021?	D4. How many adults 18 years or over do you have living in your household, including yourself? Enter 99 if you would like to leave blank.	D5. And how many children 17 years or younger, if any, do you have living in your household? Enter 99 if you would like to leave blank.	D6. In what year were you born? [RECORD YEAR] Enter 9999 if you would like to leave blank.	D6a. Can you please tell me into which of the following age groups you fall? Are you...? o18 to 24 o25 to 34 o35 to 44 o45 to 54 o55 to 64 o65 or over	D7. And lastly, which of the following best describes your total household income before taxes? oUnder \$20,000 o\$20,000 to less than \$40,000 o\$40,000 to less than \$60,000 o\$60,000 to less than \$80,000 o\$80,000 to less than \$100,000	E2. What is the approximate square footage of the indoor floor space of the main building including basement and storage, but not including parking or loading areas?
0000000126	Occupied all-year round		3.00	1.00	9999.00		REFUSED	
0000000007	Occupied all-year round		2.00	2.00	1981.00		\$100,000 to less than \$120,000	
0000000129	Occupied all-year round		3.00	0.00	1967.00		\$120,000 to less than \$140,000	
0000000062	Occupied all-year round		2.00	2.00	1978.00		REFUSED	
0000000005	Occupied all-year round		2.00	2.00	1976.00		\$140,000 or more	
0000000015	Occupied all-year round		2.00	0.00	1935.00		REFUSED	
0000000088	Occupied all-year round		3.00	2.00	1986.00		\$120,000 to less than \$140,000	
0000000104	Occupied all-year round		2.00	2.00	9999.00	35 to 44	REFUSED	
0000000012	Occupied all-year round		1.00	0.00	1953.00		REFUSED	
0000000093								4000.00
0000000085	Occupied all-year round		3.00	1.00	1972.00		\$140,000 or more	
0000000013	Occupied all-year round		2.00	2.00	1985.00		\$140,000 or more	
0000000030	Occupied all-year round		2.00	0.00	1955.00		\$20,000 to less than \$40,000	
0000000036	Occupied all-year round		2.00	0.00	1949.00		\$60,000 to less than \$80,000	
0000000054	Occupied all-year round		2.00	0.00	1997.00		\$120,000 to less than \$140,000	
0000000081	Occupied all-year round		99.00	99.00	9999.00	45 to 54	REFUSED	
0000000074	Occupied all-year round		2.00	0.00	1950.00		\$140,000 or more	
0000000076	Occupied all-year round		2.00	0.00	1957.00		\$140,000 or more	
0000000019	Occupied all-year round		3.00	0.00	1961.00		\$100,000 to less than \$120,000	
0000000025	Occupied all-year round		2.00	1.00	1977.00		\$140,000 or more	
0000000031	Occupied all-year round		2.00	1.00	1990.00		\$100,000 to less than \$120,000	
0000000108	Occupied all-year round		2.00	2.00	1986.00		REFUSED	
0000000059	Occupied all-year round		2.00	0.00	1956.00		\$140,000 or more	
0000000060	Occupied all-year round		2.00	0.00	1955.00		\$60,000 to less than \$80,000	
0000000044	Occupied all-year round		1.00	0.00	1961.00		Under \$20,000	
0000000130	Occupied all-year round		2.00	3.00	1976.00		\$140,000 or more	
0000000038	Occupied all-year round		1.00	0.00	1936.00		\$40,000 to less than \$60,000	
0000000043	Occupied all-year round		2.00	1.00	1994.00		\$120,000 to less than \$140,000	
0000000111	Occupied all-year round		1.00	0.00	1953.00		REFUSED	
0000000112	Occupied all-year round		2.00	2.00	1988.00		REFUSED	
0000000039	Occupied all-year round		5.00	0.00	1962.00		\$120,000 to less than \$140,000	
0000000131	Occupied all-year round		2.00	0.00	1996.00		REFUSED	
0000000056	Occupied all-year round		2.00	0.00	1943.00		\$120,000 to less than \$140,000	
0000000097	Occupied all-year round		2.00	2.00	1982.00		\$140,000 or more	
0000000048	Occupied all-year round		2.00	3.00	1982.00		\$80,000 to less than \$100,000	
0000000115	Occupied all-year round		4.00	0.00	1956.00		\$140,000 or more	
0000000101	Occupied all-year round		3.00	2.00	1957.00		REFUSED	
0000000083	Occupied all-year round		2.00	99.00	9999.00	45 to 54	REFUSED	
0000000089	Occupied all-year round		2.00	1.00	1982.00		\$140,000 or more	
0000000133	Occupied all-year round		2.00	0.00	1992.00		REFUSED	
0000000035	Occupied all-year round		2.00	1.00	1973.00		\$120,000 to less than \$140,000	
0000000102	Occupied all-year round		4.00	0.00	1958.00		REFUSED	
0000000042	Occupied all-year round		2.00	2.00	1983.00		\$120,000 to less than \$140,000	
0000000127	Occupied all-year round		2.00	0.00	9999.00	65 or over	REFUSED	
0000000037	Occupied all-year round		2.00	0.00	1955.00		\$40,000 to less than \$60,000	
0000000078	Occupied all-year round		3.00	1.00	1961.00		\$140,000 or more	
0000000064	Occupied all-year round		3.00	2.00	1974.00		\$140,000 or more	
0000000095	Occupied all-year round		2.00	1.00	9999.00	45 to 54	REFUSED	
0000000022	Occupied all-year round		5.00	0.00	9999.00	45 to 54	\$140,000 or more	
0000000023	Occupied all-year round		2.00	0.00	1956.00		\$40,000 to less than \$60,000	
0000000092								2000.00
0000000063	Occupied all-year round		2.00	1.00	1988.00		\$140,000 or more	
0000000116	Occupied all-year round		2.00	0.00	1956.00		\$100,000 to less than \$120,000	

RecordNo	E3. What is the age of the main building at this location (of the first/second/third building)?	DB3. How many floors does the building have? Enter 999 if Don't know	E1. How many buildings (are at this location?)	E1. How many buildings (are at this location?) - Other (Specify)
000000126				
000000007				
000000129				
000000062				
000000005				
000000015				
000000088				
000000104				
000000012				
000000093	21 to 30 years	1.00	Other (Specify)	4
000000085				
000000013				
000000030				
000000036				
000000054				
000000081				
000000074				
000000076				
000000019				
000000025				
000000031				
000000108				
000000059				
000000060				
000000044				
000000130				
000000038				
000000043				
000000111				
000000112				
000000039				
000000131				
000000056				
000000097				
000000048				
000000115				
000000101				
000000083				
000000089				
000000133				
000000035				
000000102				
000000042				
000000127				
000000037				
000000078				
000000064				
000000095				
000000022				
000000023				
000000092	More than 40 years old	1.00	One	
000000063				
000000116				



ATTENTION SANDFORD-AREA RESIDENTS

SHARE YOUR OPINION REGARDING NATURAL GAS SERVICE
EXPANSION IN YOUR AREA

PLEASE TAKE OUR ONLINE SURVEY - INVITATION ENCLOSED



Enbridge
500 Consumers Road
North York, Ontario M2J 1P8
Canada

August 2022

Subject: Natural Gas expansion within your community

Dear Resident:

Enbridge Gas has asked Forum Research to conduct a survey to help evaluate the feasibility of extending the natural gas system to homes and businesses similar to yours. **This online survey will run from August 15th – September 12th, 2022 with the intention of gauging your interest in connecting to natural gas, should it become available in your community.**

We are only able to accept one survey response from each property. Survey respondents must be 18 years or older and the person most responsible for making energy decisions for your property. Your survey responses will be held in confidence and only shared with Enbridge Gas in aggregate for reporting and decision-making purposes.

Although we thank all respondents for completing the survey, completing the survey does not guarantee that your property will be served by natural gas as part of this project. In addition, please know that completing the survey is not an application for natural gas service.

If you have any questions about the survey, please reach out to us at ceapplications@enbridge.com or visit us online at enbridgegas.com/savewithgas.

To access the survey, please enter the following into your browser:
<https://survey.forumresearch.com/SE/1/UGME/>

Many thanks in advance for your time.

Ahmed Al-Amyy P.Eng., PMP

Supervisor, Community Expansion
Capital Development & Delivery

Community Expansion Survey
Selwyn, Hidden Valley, Cherry Valley, Neustadt, Sandford

INTRODUCTION

Thank you for taking part in this survey! Forum Research on behalf of Enbridge Gas is conducting this survey to assist in determining whether natural gas will be expanded to your community. We are looking to hear from people 18 and over who are responsible for making energy decisions for their property. This survey should take approximately 6-7 minutes. Please be assured that we are not selling anything and the information you provide to us will be aggregated with others for reporting purposes. Please note that completing the survey does not guarantee that your property will be served by natural gas as part of this project. In addition, please know that completing the survey is not an application for natural gas service. This survey includes cost saving estimates for switching to natural gas, as well as cost estimates for converting or replacing water heating and space heating equipment. Actual costs may vary based on market factors and your specific needs and preferences. No specific savings or cost amount is guaranteed. Click on the arrow below to continue.

Yes, continue.

Refuse

If this is not your location → Thank and terminate

COMMUNITY

Please select the community and street you live in.

Cherry Valley

Sandy Hook Rd (County Rd 1)

Ridge Rd

County Road 1

County Rd 10

County Rd 11

Thompson Rd

County Rd 18

Fennell Crest

Factory Lane

Chourney Lane

Sandy Lane

Miller Road

CON 1

CON 2

Chourney Lane

Eames Road

Beckwith Street

Barratt's Lane

Martin Street

Mowbray Road

Curry Lane

Other (Please specify) _____

Hidden Valley

Hidden Valley Rd
Mount Pleasant Court
Skyline Dr
Slalom Dr
Woodland Dr
Lakeview Cres
Valley Rd
Chalet Cres
Turner Dr
Highway 60
Morgans Rd

Other (Please specify) _____

Neustadt

Grey Road 10 (Regional)
Grey Road 28
John Street
Barbara Street
Adam Street
Mill Street
Jacob Street
William Street
Forler Street
Stephana Street
Enoch Street
Queen Street
Concession Road 10 E
Concession Road 17
Concession Road 16
Concession Road 18
Gey Road 9
Normanby Bentinck Ext
David Winkler Pky

Other (Please specify) _____

Sandford

Concession Road 3
Alsop PL
Ball Rd
Concession Rd 5
Concession Rd 6
James PL
Lundy Dr

Moore St
Sandford Rd
Smith Dr
Taylor Dr
Bolton Dr
Centre RD
Davis Drive
Concession Rd 4
Other (Please specify) _____

8th Line (Selwyn Township)

8th Line
7th Line
9th line
Merlenor CRT
Buckhorn Rd
Centre Line
Holden Rd
Concession 8
Selwyne Rd
County Road 23
Other (Please specify) _____

SCR3. Do you own or rent this property?

Own

Rent (option to enter contact info for property owner) → Thank and terminate

Do not live in the area → Thank and terminate

SCR5. Which of the following best describes the building (or buildings) at this location?

Agriculture

Commercial

Farm

Industrial

Residential

Both Residence and a Business

SCR6. On average, how much is your annual heating cost for this premise including taxes?

SECTION H: Heating

H1A. What is the primary energy source of heat for this premise? Is it...?

[RANDOMIZE]

Oil

Propane

Electricity
Wood
Heat pump such as a geothermal system
No heating
Other [SPECIFY]

**H1B. What type of system provides the primary source of heat for this premise?
Is it...?**

IF H1A = OIL THEN ASK

Oil Forced Air
Oil Boiler (Hot Water Radiators)
Oil fireplace

IF H1A = PROPANE THEN ASK

Propane Forced Air
Propane Boiler (Hot Water Radiators)
Propane fireplace

IF H1A = ELECTRICITY THEN ASK

Electric Forced Air,
Electric Baseboard,
Heat pump such as a geothermal system

IF H1A = WOOD THEN ASK

Wood Forced Air, or
Wood Stoves/Fireplace
Outdoor wood furnace

No heating system

OR SOMETHING ELSE [SPECIFY]

IF H1B = NO HEATING SYSTEM, SKIP TO H8, ELSE CONTINUE

Other [SPECIFY]

IF H1A = "HEAT PUMP SUCH AS A GEOTHERMAL SYSTEM" THEN ASK NEW 1

NEW 1. What kind of heat pump do you have?

Geothermal or ground source heat pump
Air Source Heat Pump
Other [SPECIFY]

**IF H1A IS NOT "HEAT PUMP SUCH AS A GEOTHERMAL SYSTEM" THEN ASK
NEW 2**

**New 2. How knowledgeable would you say that you are about heat pumps
including air source heat pumps, geothermal or ground source heating and
cooling systems for homes?**

Very knowledgeable

Somewhat knowledgeable
Not very knowledgeable
Never heard of it

IF NEW 2 = “NOT VERY KNOWLEDGEABLE” OR “NEVER HEARD OF IT” THEN:

READ/DISPLAY: A heat pump is an electrically driven device that can provide heating by transferring thermal energy from the earth or air into your home. Many heat pumps can also operate in the opposite direction, cooling the home by removing the heat from the inside and sending it outdoors or into the ground. Common types are air source heat pumps and ground source heat pumps (sometimes called geothermal systems). Many homes in moderate climates can rely on these systems to heat or cool their homes year-round; however, in colder climates a specialized “cold climate” heat pump or a supplementary heating source is usually needed.

Because heat pumps use electricity to move thermal energy to heat and cool your home, they are more efficient than traditional heating and cooling systems which could result in lower annual operating costs compared to other energy sources. However, these systems can have a high upfront cost, and may require modification to ducting designed for a forced-air furnace or central air conditioning system to distribute hot and cold air in your home. Upgrades to your electrical panel may also be required to accommodate a heat pump. Government incentives are currently available to bring down the cost.

IF H1A IS NOT “HEAT PUMP SUCH AS A GEOTHERMAL SYSTEM” THEN ASK

New 3: How likely would you be to seek out more information about installing a heat pump heating and cooling system for your home?

Extremely likely
Very likely
Likely
Not very likely
Not at all likely
Don't Know

H2. How old is your heating system?

H3. How likely are you to replace your heating system in the next 2 years? Are you...?

Extremely likely
Very likely
Likely
Not very likely
Not at all likely

SECTION W: Water Heating

ASK ALL

Now, I would like to ask you a few questions about your water heater.

W1. What is the MAIN fuel source for heating your water?

Propane

Oil

Electricity

Wood

Geothermal/Ground source

Other: **[SPECIFY]**

W2. How old is your water heater?

5 years or less

6 to 10 years old

11 to 15 years old

16 to 25 years old

Over 25 years old

Don't know

W3. Is your water heater owned or rented?

Owned

Rented

Don't Know

[ASK W5 IF W3=OWNED]

W5. The purchase and installation of a typical natural gas water heater costs about \$1,700 including taxes depending on the complexity of the installation. However, with natural gas, you could save up to <ALL = \$250> compared to propane water heating costs every year, or <Selwyn, Hidden Valley, Neustadt, Sandford = \$50 / Cherry Valley = \$15> compared to electric water heating costs.

The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per cubic meter, making up approximately 15% of the total natural gas bill for a typical home. The federal carbon charge will increase each year, reaching 18.11 cents per cubic meter in 2025 and 32.40 cents per cubic meter in 2030. This could diminish savings relative to an electric water heater. Federal carbon charges also apply to propane.

Considering this, how likely are you to convert your water heater to natural gas?

Would you say you are...?

Extremely likely

Very likely

Likely

Not very likely

Not at all likely

[ASK W5a IF W3=RENTED]

W5a. Natural Gas water heaters can also be rented. Typical monthly rental rates range from \$23 per month to \$30 per month including taxes. Depending on the specific style of your premises, the property owner may incur additional expenses for the conversion. However, with natural gas, you could save up to <ALL = \$250> compared to propane water heating costs every year, or <Selwyn, Hidden Valley, Neustadt, Sandford = \$50 / Cherry Valley = \$15> compared to electric water heating costs.

The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per cubic meter, making up approximately 15% of the total natural gas bill for a typical home. The federal carbon charge will increase each year, reaching 18.11 cents per cubic meter in 2025 and 32.40 cents per cubic meter in 2030. This could diminish savings relative to an electric water heater. Federal carbon charges also apply to propane.

Considering this, how likely are you to convert your water heater to natural gas? Would you say you are...?

Extremely likely

Very likely

Likely

Not very likely

Not at all likely

SECTION H1: LIKELIHOOD TO CONNECT SPACE HEATING ONLY

[ASK H5 IF H1B = OIL FORCED AIR OR OIL BOILER AND W5 OR W5a = NOT VERY LIKELY OR NOT AT ALL LIKELY OR W3="DON'T KNOW"]

H5. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a natural gas high efficiency furnace or boiler is in the range of \$4,500 to \$5,500 including taxes depending on the type of equipment you currently have.

In addition to the cost of converting your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save approximately <Selwyn, Hidden Valley, Sandford = \$2,100 / Neustadt = \$2,000 / Cherry Valley = \$1,800> per year by switching heating equipment to natural gas. Savings are likely greater for businesses. Considering this, how likely are you to convert your heating system to natural gas? Would you say...?

Extremely likely

Very likely

Likely

Not very likely
Not at all likely

[ASK H5a IF H1B = ELECTRIC FORCE AIR AND W5 OR W5a = NOT VERY LIKELY OR NOT AT ALL LIKELY OR W3="DON'T KNOW"]

H5a. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a natural gas high efficiency furnace is in the range of \$4,500 to \$5,500 including taxes depending on the type of equipment you currently have.

In addition to the cost of converting your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save approximately <Selwyn, Hidden Valley, Sandford = \$150 / Neustadt = \$200 / Cherry Valley = \$45> per year by switching electric heating equipment to natural gas. Savings are likely greater for businesses.

The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per cubic meter, making up approximately 15% of the total natural gas bill for a typical home. The federal carbon charge will increase each year, reaching 18.11 cents per cubic meter in 2025 and 32.40 cents per cubic meter in 2030. This could diminish savings relative to an electric water heater. Considering this, how likely are you to convert your heating system to natural gas? Would you say...?

Extremely likely
Very likely
Likely
Not very likely
Not at all likely

[ASK H6 IF H1B = PROPANE FORCED AIR OR PROPANE BOILER AND W5 OR W5a = NOT VERY LIKELY OR NOT AT ALL LIKELY OR W3="DON'T KNOW"]

H6. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting your existing heating system to natural gas is likely in the range of \$400 to \$1,000 including taxes depending on the type of equipment you currently have.

In addition to the cost of converting your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save approximately <Selwyn, Hidden Valley, Sandford = \$800 / Neustadt = \$800 / Cherry Valley = \$400> per year by switching heating equipment to natural gas. Savings are likely greater for businesses. Considering this, how likely are you to convert your heating system to natural gas? Would you say...?

Extremely likely
Very likely
Likely
Not very likely
Not at all likely

[ASK H7 IF H1B = ELECTRIC BASEBOARD AND W5 OR W5a = NOT VERY LIKELY OR NOT AT ALL LIKELY OR W3="DON'T KNOW"]

H7. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a high efficiency natural gas furnace and adding ducting is likely to be about \$12,500 including taxes depending on the specific style and/or size of your premise. Another option would be to install a natural gas fireplace or space heater to heat the main living area, at an estimated cost of \$4,500-\$5,500.

In addition to the cost of converting your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save approximately <Selwyn, Hidden Valley, Sandford = \$150 / Neustadt = \$200 / Cherry Valley = \$45> per year by switching electric heating equipment to natural gas. Savings are likely greater for businesses.

The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per cubic meter, making up approximately 15% of the total natural gas bill for a typical home. The federal carbon charge will increase each year, reaching 18.11 cents per cubic meter in 2025 and 32.40 cents per cubic meter in 2030. This could diminish savings relative to electricity. Considering this, how likely are you to convert your heating system to natural gas? Would you say...?

Extremely likely
Very likely
Likely
Not very likely
Not at all likely

[ASK H7a IF H1A = WOOD AND W5 OR W5a = NOT VERY LIKELY OR NOT AT ALL LIKELY OR W3="DON'T KNOW"]

H7a. Installing a high efficiency natural gas furnace is likely to cost about \$4,500-\$5,500 if you already have forced air ductwork and \$12,500 if you don't, including taxes. A natural gas fireplace or wall heater would also cost about \$4,500-\$5,500.

In addition to the cost of converting your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the

surcharge added, savings will likely be minimal from switching your wood-fired heating equipment to natural gas. However, you wouldn't need to split or store wood.

Considering this, how likely are you to convert your heating system to natural gas?

Would you say...?

Extremely likely

Very likely

Likely

Not very likely

Not at all likely

[ASK H8 IF H1B = NO HEATING SYSTEM, OIL FIREPLACE, PROPANE FIREPLACE, OR "SOMETHING ELSE AND W5 OR W5a = NOT VERY LIKELY OR NOT AT ALL LIKELY OR W3="DON'T KNOW"]

H8. Installing a high efficiency natural gas furnace or boiler is likely to cost about \$4,500-\$5,500 if you already have forced air ductwork or a boiler, and \$12,500 if you were to install a new forced air system requiring ductwork, including taxes.

Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500.

In addition to the cost of converting your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home could save <Selwyn, Hidden Valley, Sandford = 9% or more / Neustadt = 12% or more / Cherry Valley = 3% or more> by switching heating equipment to natural gas. Savings are likely greater for businesses. Considering this, how likely are you to convert your heating system to natural gas? Would you say...?

Extremely likely

Very likely

Likely

Not very likely

Not at all likely

[ASK H9 IF H1A or H1B = "HEAT PUMP SUCH AS A GEOTHERMAL SYSTEM"]

H9. Homeowners with a heat pump heating and cooling system could consider using natural gas as a supplemental heating source. The cost of a high efficiency natural gas furnace is in the range of \$4,500-\$5,500 including taxes. Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500.

In addition to the cost of supplementing your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, a typical home costs <Selwyn, Hidden Valley, Sandford, Cherry Valley = \$1,500 / Neustadt = \$1,350> per year to fully heat with natural gas. Costs would be less if using natural gas for supplemental heating only.

The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per cubic meter, making up approximately 15% of the total natural gas bill for a typical home. The federal carbon charge will increase each year, reaching 18.11 cents per cubic meter in 2025 and 32.40 cents per cubic meter in 2030. Considering this, how likely are you to connect to natural gas? Would you say...?

- Extremely likely
- Very likely
- Likely
- Not very likely
- Not at all likely

SECTION H2: LIKELIHOOD TO CONNECT SPACE AND WATER HEATING

[ASK H5-WWH IF H1B = OIL FORCED AIR OR OIL BOILER AND W5 OR W5a = EXTREMELY LIKELY, VERY LIKELY OR LIKELY]

H5 - WWH. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a natural gas high efficiency furnace or boiler is in the range of \$4,500 to \$5,500 including taxes depending on the type of equipment you currently have.

In addition to the cost of converting your space and water heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save approximately <Selwyn, Hidden Valley, Sandford = \$2,800 / Neustadt = \$2,650 / Cherry Valley = \$2,400> per year by switching space and water heating to natural gas. Savings are likely greater for businesses. Considering this, how likely are you to convert your space and water heating systems to natural gas? Would you say...?

- Extremely likely
- Very likely
- Likely
- Not very likely
- Not at all likely

[ASK H5a-WWH IF H1B = ELECTRIC FORCE AIR AND W5 OR W5a = EXTREMELY LIKELY, VERY LIKELY OR LIKELY]

H5a - WWH. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a natural gas high efficiency furnace is in the range of \$4,500-\$5,500 including taxes depending on the type of equipment you currently have.

In addition to the cost of converting your space and water heating, an average home would be required to make a financial contribution toward the cost of constructing the

pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save <Selwyn, Hidden Valley, Sandford = \$200 / Neustadt = \$250 / Cherry Valley = \$60> per year by switching space and water heating to natural gas. Savings are likely greater for businesses.

The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per cubic meter, making up approximately 15% of the total natural gas bill for a typical home. The federal carbon charge will increase each year, reaching 18.11 cents per cubic meter in 2025 and 32.40 cents per cubic meter in 2030. This could diminish savings relative to electricity. Considering this, how likely are you to convert your space and water heating systems to natural gas? Would you say...?

- Extremely likely
- Very likely
- Likely
- Not very likely
- Not at all likely

[ASK H6-WWH IF H1B = PROPANE FORCED AIR OR PROPANE BOILER AND W5 OR W5a = EXTREMELY LIKELY, VERY LIKELY OR LIKELY]

H6 - WWH. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting your existing heating system to natural gas is likely in the range of \$400 to \$1,000 including taxes depending on the type of equipment you currently have.

In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save <ALL except Cherry Valley = \$1,050, Cherry Valley = \$550> per year by switching space and water heating to natural gas. Savings are likely greater for businesses. Considering this, how likely are you to convert your space and water heating systems to natural gas? Would you say...?

- Extremely likely
- Very likely
- Likely
- Not very likely
- Not at all likely

[ASK H7-WWH IF H1B = ELECTRIC BASEBOARD AND W5 OR W5a = EXTREMELY LIKELY, VERY LIKELY OR LIKELY]

H7 - WWH. Converting your heating system to natural gas requires some initial investment by the property owner. The cost of converting a residential heating system to a high efficiency natural gas furnace and adding ducting is likely to be about \$12,500 including taxes depending on the specific style and/or size of your premise. Another

option would be to install a natural gas fireplace or space heater to heat the main living area, at an estimated cost of \$4,500-\$5,500.

In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home will save <Selwyn, Hidden Valley, Sandford = \$200 / Neustadt = \$250 / Cherry Valley = \$60> per year by switching space and water heating to natural gas. Savings are likely greater for businesses.

The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per cubic meter, making up approximately 15% of the total natural gas bill for a typical home. The federal carbon charge will increase each year, reaching 18.11 cents per cubic meter in 2025 and 32.40 cents per cubic meter in 2030. This could diminish savings relative to electricity. Considering this, how likely are you to convert your space and water heating systems to natural gas? Would you say...?

- Extremely likely
- Very likely
- Likely
- Not very likely
- Not at all likely

[ASK H7a-WWH IF H1A = WOOD AND W5 OR W5a = EXTREMELY LIKELY, VERY LIKELY OR LIKELY]

H7a - WWH. Installing a high efficiency natural gas furnace is likely to cost about \$4,500-\$5,500 if you already have forced air ductwork and \$12,500 if it doesn't, including taxes. A natural gas fireplace or wall heater would also cost about \$4,500-\$5,500.

In addition to the cost of converting your space and water heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, savings will likely be minimal from switching your wood-fired equipment to natural gas. However, you wouldn't need to split or store wood. Considering this, how likely are you to convert your space and water heating systems to natural gas? Would you say...?

- Extremely likely
- Very likely
- Likely
- Not very likely
- Not at all likely

[ASK H8-WWH IF H1B = NO HEATING SYSTEM, OIL FIREPLACE, PROPANE FIREPLACE, OR "SOMETHING ELSE AND W5 OR W5a = EXTREMELY LIKELY, VERY LIKELY OR LIKELY]

H8 - WWH. Installing a high efficiency natural gas furnace or boiler is likely to cost about \$4,500-\$5,500 if you already have forced air ductwork or a boiler, and \$12,500 if you were to install a new forced air system requiring ductwork, including taxes. Alternatively, a natural gas fireplace or wall heater would cost about \$4,500 - \$5,500.

In addition to the cost of converting your SPACE AND WATER heating, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, an average home could save <Selwyn, Hidden Valley, Sandford = 9% or more / Neustadt = 12% or more / Cherry Valley = 3% or more> per year by switching space and water heating to natural gas. Savings are likely greater for businesses. Considering this, how likely are you to convert your space and water heating systems to natural gas? Would you say...?

Extremely likely

Very likely

Likely

Not very likely

Not at all likely

[ASK H9 - WWH IF H1A or H1B = "HEAT PUMP SUCH AS A GEOTHERMAL SYSTEM"]

H9 - WWH. Homeowners with a heat pump heating and cooling system could consider using natural gas as a supplemental heating source. The cost of a high efficiency natural gas furnace is in the range of \$4,500-\$5,500 including taxes. Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500.

In addition to the cost of supplementing your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, a typical home costs <Selwyn, Hidden Valley, Sandford, Cherry Valley = \$2,000 / Neustadt = \$1,800> per year for water heating and to fully heat with natural gas. Cost would be less if using natural gas for supplemental heating only.

The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per cubic meter, making up approximately 15% of the total natural gas bill for a typical home. The federal carbon charge will increase each year, reaching 18.11 cents per cubic meter in 2025 and 32.40 cents per cubic meter in 2030.

Considering this, how likely are you to connect to natural gas? Would you say...?

Extremely likely

Very likely

Likely
Not very likely
Not at all likely

[ASK H9A IF H5 / H5a / H6 / H7 / H7A / H8 / H5-WWH / H5a-WWH / H6-WWH / H7-WWH/ H7A-WWH / H8-WWH= NOT VERY LIKELY OR NOT AT ALL LIKELY]

H9a. You indicated that you are unlikely to convert your heating system to natural gas.

Can you explain why?

Don't like natural gas
Not interested/ have no plans to change
Not interested at this time/ maybe in the future
Not worth it
Plan on building a new home (or facility) / moving
Too expensive
Other: [SPECIFY]

SECTION E: EXPANSION TIMELINE

[ASK E1 AND E2 IF EXTREMELY LIKELY, VERY LIKELY, OR LIKELY FOR ANY OF H5/H5a/H6/H7/H7a/H8/ H5-WWH/H5a-WWH/H6-WWH/H7-WWH/H7a-WWH/H8-WWH]

E1. You indicated that you are likely to convert to natural gas. Assuming gas service is available Prior to 2026, when would you likely convert?

Within the first 12 months
Within 1 to 2 years
Within 2 to 3 years
After 3 years

E2. I am going to read you a list of appliances that could be powered by natural gas. For each appliance, please tell me if you would be extremely interested, very interested, interested, not very interested or not at all interested in natural gas for the appliance.

[RANDOMIZE]

Fireplace
Oven, range or stove
Clothes dryer
BBQ
Other [SPECIFY]

Extremely interested
Very interested
Interested
Not very interested
Not at all interested

ASK QUESTIONS IN SECTION D IF SCR5 = RESIDENCE OR "RESIDENCE AND BUSINESS"

SECTION D: DEMOGRAPHICS

I just have a few additional questions for you that will help us group your answers with others who have also participated in the research. As a reminder, your answers will be kept completely confidential and they will not be tied back to you.

D1. Which of the following best describes the style of your house? Is it a ...?

A bungalow or one-story ranch

A raised ranch

A split level

A two story

A three-story house

Some other style

D2. In order to have some idea as to the approximate size of your home in square feet (not including any unfinished basement space) can you tell me how many square feet your home is?

D3. In what year was your house built? Your best estimate is fine.

D3a. Which statement best describes the occupancy of this dwelling?

Occupied all-year round

Occupied mostly in the summer months

Occupied mostly in the winter months

Occupied occasionally year round

Don't know

[SKIP TO D4 IF D3A = OCCUPIED ALL YEAR ROUND, ELSE CONTINUE]

D3b. For approximately how many months did you use this residence during 2021?

D4. How many adults 18 years or over do you have living in your household, including yourself?

D5. And how many children 17 years or younger, if any, do you have living in your household?

D6. In what year were you born?

[ASK D6a IF REFUSE/DON'T KNOW AT D6, ELSE SKIP TO D7]

D6a. Can you please tell me into which of the following age groups you fall? Are you...?

18 to 24

25 to 34

35 to 44
45 to 54
55 to 64
65 or over
Refuse

D7. And lastly, which of the following best describes your total household income before taxes?

Under \$20,000
\$20,000 to less than \$40,000
\$40,000 to less than \$60,000
\$60,000 to less than \$80,000
\$80,000 to less than \$100,000
\$100,000 to less than \$120,000
\$120,000 to less than \$140,000
\$140,000 or more
Refuse

ASK QUESTIONS IN SECTION E IF SCR5 = COMMERCIAL BUSINESS, INDUSTRIAL BUSINESS, OR FARM/AGRIBUSINESS

SECTION E: FIRMOGRAPHICS

There are just a few additional questions for you that will help us group your answers with others who have also participated in the research. As a reminder, your answers will be kept completely confidential and they will not be tied back to you.

E2. What is the approximate square footage of the indoor floor space of the main building including basement and storage, but not including parking or loading areas? Please consider only the area that is affected by a heating system.

E3. What is the age of the main building at this location (of the first/second/third building)?

1 YEAR OR LESS,
2 TO 5 YEARS,
6 TO 10 YEARS,
11 TO 20 YEARS,
21 TO 30 YEARS,
31 TO 40 YEARS,
MORE THAN 40 YEARS OLD,
DON'T KNOW
REFUSE

DB3. How many floors does the building have?

E1. How many buildings (are at this location?)

One

Two

Three

Other (Specify) _____

Part of a building

Don't know

Refuse

Thank you for your feedback. We appreciate your willingness to participate in this survey.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, Attachment 4 (Forum Research Report)

Question(s):

- a) Please provide a detailed list of any difference in the Forum survey questions as between the survey run in Sandford and those run in Selwyn and Hidden Valley, including different introductory information provided to respondents.
- b) For each difference between the surveys that did not arise from energy price differences as between the locations, please explain the reason for the different wording used in Sandford.

Response:

- a) The survey used in Sandford was identical to the surveys used in Selwyn and Hidden Valley.
- b) There were no differences between the surveys.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, Attachment 4 (Forum Research Report)

Preamble:

These questions are for Forum Research.

Question(s):

- a) Please provide all excerpts from all materials provided to residents that provide details on the comparative cost-effectiveness of heating with electric air source heat pumps versus gas.
- b) Please individually indicate whether respondents were informed of the following facts. If yes, please provide the precise text used in the materials or survey script:

Information Communicated to Customers		
Information	Whether communicated to the city (Y/N)	If no, why not; if yes, where & when
(i) That the federal government is offering \$5,000 rebates for customers to switch to high-efficiency electric heat pumps, which are not available for gas furnaces. ¹		
(ii) That the federal government is offering an <i>additional</i> \$5,000 in rebates for customers to switch from oil to high-efficiency electric heat pumps if they earn a median income or lower (e.g. \$122,000 after-tax income for a family of 4 in Ontario) through the Oil to Heat Pump Affordability Program. ²		
(iii) That the federal government is now providing up to \$40,000 in interest free loans, which can be put towards conversions to electric heat pumps, and not gas equipment, through the Greener Homes Loan. ³		
(iv) That heat pumps could save a customer approximately \$1,200 in annual heating costs versus a gas furnace for a		

¹ EB-2022-0249, Exhibit I.ED.20 & Exhibit I.ED.5.

² EB-2022-0249, Exhibit I.ED.20 & Exhibit I.ED.5.

³ EB-2022-0249, Exhibit I.ED.20 & Exhibit I.ED.5.

	house with a moderate heat load (or whatever Enbridge's estimated savings are). ⁴		
(v)	That Enbridge may charge customers for a connection depending on the distance of the building from the road		
(vi)	That heat pumps result in lower annual energy costs compared to traditional gas equipment for home heating		
(vii)	That heat pumps significantly reduce summer cooling costs.		
(viii)	That natural gas is a potent greenhouse gas and its combustion generates approximately 1/3 rd of Ontario's greenhouse gas emissions. ⁵		
(ix)	That heat pumps result in far less greenhouse gas emissions than gas furnaces. ⁶		

Response:

The following responses were provided by Enbridge Gas:

- a) Information regarding electric heat pumps was communicated through the survey only. The Forum survey contained two questions with comparative cost-effectiveness information, as well as one question with introductory information about electric heat pumps. The purpose of each question and question wording is provided in Table 1 below:

⁴ EB-2022-0249, Exhibit I.ED.16, Attachment 7, Ottawa, 4 Ton Heating Load, "Cost savings" row, averaged; EB-2022-0249, Exhibit I.ED.5.

⁵ EB-2022-0249, Exhibit I.ED.5.

⁶ *Ibid.*

Table 1
Forum Research Survey Heat Pump Information

Line No.	Survey Question	Purpose of Question	Survey Text
1	NEW 2	Provided respondents who indicated they were not very knowledgeable about heat pumps or had never heard of them with an introduction to the technology.	<p>A heat pump is an electrically driven device that can provide heating by transferring thermal energy from the earth or air into your home. Many heat pumps can also operate in the opposite direction, cooling the home by removing the heat from the inside and sending it outdoors or into the ground. Common types are air source heat pumps and ground source heat pumps (sometimes called geothermal systems). Many homes in moderate climates can rely on these systems to heat or cool their homes year-round; however, in colder climates a specialized “cold climate” heat pump or a supplementary heating source is usually needed.</p> <p>Because heat pumps use electricity to move thermal energy to heat and cool your home, they are more efficient than traditional heating and cooling systems which could result in lower annual operating costs compared to other energy sources. However, these systems can have a high upfront cost, and may require modification to ducting designed for a forced-air furnace or central air conditioning system to distribute hot and cold air in your home. Upgrades to your electrical panel may also be required to accommodate a heat pump. Government incentives are currently available to bring down the cost.</p>
2	H9	Gauged interest in connecting to natural gas among respondents currently using a heat pump as their primary heating source. This version of the question was provided to respondents not interested in switching their water heater to natural gas.	<p>Homeowners with a heat pump heating and cooling system could consider using natural gas as a supplemental heating source. The cost of a high efficiency natural gas furnace is in the range of \$4,500-\$5,500 including taxes. Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500.</p> <p>In addition to the cost of supplementing your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, a typical home costs \$1,500 per year to fully heat with natural gas. Costs would be less if using natural gas for supplemental heating only.</p> <p>The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per cubic meter, making up approximately 15% of the total natural gas bill for a typical home. The federal carbon charge will increase each year, reaching 18.11 cents per cubic meter in 2025 and 32.40 cents per cubic meter in 2030. Considering this, how likely are you to connect to natural gas? Would you say...?</p> <p>Extremely likely Very likely Likely Not very likely Not at all likely</p>

Table 1 (Continued)*
Forum Research Survey Heat Pump Information

3	H9 - WWH	<p>Gauged interest in connecting to natural gas among respondents currently using a heat pump as their primary heating source. This version of the question was shown to respondents interested in switching their water heater to natural gas.</p>	<p>Homeowners with a heat pump heating and cooling system could consider using natural gas as a supplemental heating source. The cost of a high efficiency natural gas furnace is in the range of \$4,500-\$5,500 including taxes. Alternatively, a natural gas fireplace or wall heater would cost about \$4,500-\$5,500.</p> <p>In addition to the cost of supplementing your heating equipment, an average home would be required to make a financial contribution toward the cost of constructing the pipeline, which will be split into monthly payments based on how much gas you use. With the surcharge added, a typical home costs \$2,000 per year for water heating and to fully heat with natural gas. Cost would be less if using natural gas for supplemental heating only.</p> <p>The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per cubic meter, making up approximately 15% of the total natural gas bill for a typical home. The federal carbon charge will increase each year, reaching 18.11 cents per cubic meter in 2025 and 32.40 cents per cubic meter in 2030. Considering this, how likely are you to connect to natural gas? Would you say...?</p> <p>Extremely likely Very likely Likely Not very likely Not at all likely</p>
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b) Some of the “facts” provided by ED within the interrogatory are over-simplifications and omit other important considerations and therefore could be misleading. For example, ED identifies annual operating costs of electric heat pumps and the rebates available to offset upfront capital costs of electric heat pumps but ignores information regarding upfront capital costs of electric heat pumps. As with any capital investment, upfront capital costs are an important consideration, not just annual operating costs. Enbridge Gas does not necessarily accept the statements made by ED as complete/accurate representations of the information. Enbridge Gas is not responding to the validity or accuracy of ED’s statements and is rather providing responses to the direct questions posed by ED.

Table 2

Information Communicated to Customers in the Forum Research Survey

Information	Whether communicated to the city (Y/N)	If no, why not; if yes, where & when
(i) – (iii)	N	Enbridge Gas did not communicate these specific rebate amounts or details as there are several different rebates available with different qualifiers. It would be difficult to communicate these details effectively in the survey format and within a reasonable survey length. Enbridge Gas instead communicated the existence of incentives broadly by including the phrase, “Government incentives are currently available to bring down the cost” in question “New 2”. Full question text is provided in part a) above.
(iv)	N	The information within the interrogatory ignores information regarding upfront capital costs of electric heat pumps and therefore could be misleading. As with any capital investment, upfront capital costs are an important consideration, not just annual operating costs.
(v)	N	The information within the interrogatory is misleading because extra line charges do not always apply. When extra line charges apply, they can vary significantly by situation and are therefore difficult to communicate in the survey format. Comprehensive information is readily available on the Enbridge Gas community expansion website, including information regarding the extra length charge under the FAQ section: ‘What does it cost to install a natural gas pipeline to connect my home?’. ¹
(vi)	Y	Question “New 2” communicated that heat pumps could result in lower annual operating costs for heating. Excerpt: “Because heat pumps use electricity to move thermal energy to heat and cool your home, they are more efficient than traditional heating and cooling systems which could result in lower annual operating costs compared to other energy sources.” The full question text is provided in part a) above.
(vii)	N	Question “New 2” communicated that heat pumps could result in lower annual operating costs for cooling but did not state savings would be significant. Excerpt: “Because heat pumps use electricity to move thermal energy to heat and cool your home, they are more efficient than traditional heating and cooling systems which could result in lower annual operating costs compared to other energy sources.” The full question text is provided in part a) above.
(viii)	N	Since the objective of the survey was to gauge interest in connecting to natural gas among residential homeowners, Enbridge Gas focused on the financial implications of emissions for heating by communicating information about the federal carbon charge to respondents that identified using an electric water or space heating system (including heat pumps). While this information does not directly communicate that natural gas is a source of greenhouse gas emissions, it is implied by the applicability of the carbon charge to natural gas. Excerpt: “The federal carbon pricing program will result in increases to natural gas prices over time. The federal carbon charge is currently 9.79 cents per cubic meter, making up approximately 15% of the total natural gas bill for a typical home. The federal carbon charge will increase each year, reaching 18.11 cents per cubic meter in 2025 and 32.40 cents per cubic meter in 2030.” This wording is included in the following questions: W5, W5a, H5a, H7, H9, H5a-WWH, H7-WWH, and H9-WWH. The full text for these questions is provided in the survey questionnaire at Exhibit I.ED-7, Attachment 3. The full question text for H9 and H9-WWH is also provided in part a) above.

Table 2 (Continued)*

Information Communicated to Customers in the Forum Research Survey

(ix)	N	The information within the interrogatory is misleading because the emissions from heat pumps and natural gas furnaces depend on the carbon intensity of the energy source used. A furnace using renewable natural gas could have lower emissions than a heat pump powered by electricity, for example.
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ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1

Question(s):

- a) Please complete the following table showing the typical or average costs for a home to convert to natural gas space heating from different existing heating systems, including all costs, such as ductwork required for conversions from electric baseboards. Please include both Enbridge's best estimates and the figures provided to customers in the Forum surveys.

Cost of Converting to Natural Gas Space Heating			
Existing Equipment	Enbridge best estimate	Figure used in Forum survey	Source for cost estimate underlying the Forum survey
Electric baseboards (no ductwork)			
Electric forced-air furnace			
Electric heat pump			
Oil furnace			
Propane furnace			

Response:

Enbridge Gas does not have the requested information with respect to actual homes in the Project area. Enbridge Gas cautions against drawing conclusions regarding actual homes in the Project area using general or theoretical estimates/averages, as conversion costs for actual homes can vary. General or theoretical estimates/averages should be used for illustrative purposes only.

Regarding general illustrative estimates:

- Enbridge Gas has not established “best estimates” delineated in the manner sought by ED (i.e., by specific existing non-natural gas configuration to natural gas). Please see Table 2 in the response at Exhibit I.ED-28, part a), for an estimated range of potential all-in conversion costs to natural gas configurations, encompassing a variety existing non-natural gas configurations.
- Regarding the Forum survey, please see Table 1. The illustrative cost estimates used do not rely on formal sources; rather they are based on Enbridge Gas’s general understanding of the illustrative cost estimates.

Table 1
Cost of Converting to Natural Gas Space Heating

Existing Equipment	Figure used in Forum survey
Electric baseboards (no ductwork)	\$12,500
Electric forced-air furnace	\$4,500-\$5,500
Electric heat pump	\$4,500-\$5,500 (for natural gas furnace as supplemental heating)
Oil furnace	\$4,500-\$5,500
Propane furnace	\$400 to \$1,000 (for conversion of existing equipment)

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1

Question(s):

- a) Please reproduce the customer attachment forecast broken down by the current customer primary heating system/fuel. Please make and state assumption as necessary (e.g. Enbridge may estimate the fuel type of connecting customers based on the proportions of customers with that fuel type indicating an interest in converting to gas in the surveys). Please provide the underlying calculations. We are most interested in the overall totals after 10 years, but please also provide the annual breakdown if possible.

Response:

- a) Enbridge Gas does not forecast attachments by existing fuel type and therefore cannot provide the requested information. The Company cautions against estimating the existing fuel type of connecting customers based on fuel type information from the market research, as actual connections can vary.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E

Question(s):

- a) Please provide a copy of the most recent eight quarterly reports for schedule 2 community expansion projects that Enbridge is required to prepare and submit pursuant to s. 10.1(1) or O. Reg. 24/19.
- b) If there are any discrepancies between the information in the quarterly reports pertaining to the Sandford project and the information in this application, please detail those in a table with a reconciliation of the differences.

Response:

- a) Please refer to Attachment 1 to this response for a copy of the most recent eight quarterly reports for schedule 2 community expansion projects.
- b) There is a minor discrepancy between the information provided in the most recent quarterly report pertaining to the Sandford Community Expansion project and the information in this Application. Table 1 shows a reconciliation of the minor discrepancy. The number of residential customers and the combined number of commercial, institutional, agricultural & industrial customers are 173 and 10 respectively, and were correctly reported in this Application. Accordingly, Enbridge Gas will correct the minor discrepancy in the next upcoming NGEQ quarterly report.

Table 1

Minor discrepancy in reporting customer attachment numbers
in the LTC Application vs. NGEQ Quarterly Reports

Line No.		Number of Residential Customers	Number of Commercial, Institution, Agricultural & Industrial Customers	Total
1	LTC Application	173	10	183
2	NGEQ Quarterly Report	174	9	183

Natural Gas Expansion Program - Quarterly Report for NGE Phase 2 Projects
 Submitted to Ministry of Energy pursuant to O. Reg. 451/21 under the Ontario Energy Board Act, 1998
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1. Kawartha Lakes		Q4 2021	Q1 2022	Q2 2022	Q3 2022**	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Q1 2022	Q1 2022	Complete	Complete	Complete	Complete	Complete	Complete
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Requested	Requested
	Other	Required	Required	Required	Required	Required	Required	Requested	Requested
	Municipal Consent	Required	Required	Required	Required	Required	Required	Requested	Requested
	Special Road Permit	Required	Required	Required	Required	Required	Required	Not Required	Not Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Scheduled for Q2 2022	Scheduled for Q2 2022	Scheduled for Q2 2023	Scheduled for Q2 2023	Scheduled for Q3 2023	Scheduled for Q1 2024	Scheduled for Q1 2024	Scheduled for Q1 2024
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Q1 2024	Q1 2024	Q1 2024	Q1 2024	Q1 2024	Q1 2024	Q3 2024	Q3 2024
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	3854	3854	3854	3854	3854	3589	3517*	3517
	Commercial Forecast	120	120	120	120	120	185	170*	170
	Institutional Forecast	1	1	1	1	1	1	1*	1
	Agricultural Forecast	1	1	1	1	1	1	0*	0
	Industrial Forecast	2	2	2	2	2	2	1*	1
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.**		0	0	0	0	0	0	0	0

*the revised count of 3689 is due to the 2022 market research results and associated project scope refinement

**amount received from IESO

The Leave To Construction application for the Kawartha Lakes Community Expansion project (Bobcaygeon) was adjourned in Q3 2022 to allow EGI to refresh its market research and include additional information as requested by intervenors.

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2. Amherstburg		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	None	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Q3 2023	Q4 2023	Q4 2023
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required	Required
	Other	Required	Required	Required	Required	Required	Required	Required	Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Not Required	Not Required	Not Required	Required	Required	Required	Required	Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Scheduled for Q2 2024	Scheduled for Q3 2024	Scheduled for Q4 2024
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Q3 2024	Q4 2024	Q4 2024
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	92	92	92	92	92	92	92	92
	Commercial Forecast	0	0	0	0	0	0	0	0
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	0	0	0	0	0	0	0	0
	Industrial Forecast	0	0	0	0	0	0	0	0
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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4. Burk's Falls		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	None	Complete	Complete
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Requested	Complete	Complete	Complete	Complete	Complete	Complete
	Special Road Permit (MTO)	Required	Requested	Requested	Complete	Complete	Complete	Complete	Complete
4. The schedule for construction of the project and the progress made in the preceding quarter.		Scheduled for Q3 2022	Scheduled for Q3 2022	Scheduled for Q4 2022	Construction In Progress	Construction Complete	Construction Complete	Construction Complete	Construction Complete
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Q4 2022	Q4 2022	Q4 2022	Q4 2022	Q4 2022	Complete	Complete	Complete
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	39	39	39	39	39	39	39	39
	Commercial Forecast	2	2	2	2	2	2	2	2
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	0	0	0	0	0	0	0	0
	Industrial Forecast	0	0	0	0	0	0	0	0
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	10	10	10	10
	Commercial Actual	0	0	0	0	1	1	1	1
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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5. Caledon		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	None	None	None
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required	Required
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Required	Required	Required	Required	Required	Required	Required	Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	94	94	94	94	94	94	94	94
	Commercial Forecast	2	2	2	2	2	2	2	2
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	0	0	0	0	0	0	0	0
	Industrial Forecast	4	4	4	4	4	4	4	4
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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6. Burlington		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Q2 2022	Q3 2022	Q4 2024	Q4 2024	Q4 2024	Q4 2024	Q4 2024	Q4 2024
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.		Environmental	Required	Required	Required	Required	Required	Required	Required
		Other	Required	Required	Required	Required	Required	Required	Required
		Municipal Consent	Required	Required	Required	Required	Required	Required	Required
		Special Road Permit	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Scheduled for Q4 2023	Scheduled for Q4 2023	Schedule Under Development	Schedule Under Development	Schedule Under Development	Schedule Under Development	Schedule Under Development	Schedule Under Development
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).		Residential Forecast	100	92	92	92	92	92	92
		Commercial Forecast	3	1	1	1	1	1	1
		Institutional Forecast	0	0	0	0	0	0	0
		Agricultural Forecast	0	0	0	0	0	0	0
		Industrial Forecast	0	0	0	0	0	0	0
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).		Residential Actual	0	0	0	0	0	0	0
		Commercial Actual	0	0	0	0	0	0	0
		Institutional Actual	0	0	0	0	0	0	0
		Agricultural Actual	0	0	0	0	0	0	0
		Industrial Actual	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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7. East Hawkesbury Township		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	None	None	None
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required	Required
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	299	299	299	299	299	299	299	299
	Commercial Forecast	15	15	15	15	15	15	15	15
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	1	1	1	1	1	1	1	1
	Industrial Forecast	3	3	3	3	3	3	3	3
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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8. East Gwillimbury		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	In Progress	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Q4 2023	Q4 2023
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required	Required
	Other	Required	Required	Required	Required	Required	Required	Required	Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Required	Required	Required	Required	Required	Required	Required	Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	391	391	391	391	391	391	391	391
	Commercial Forecast	19	19	19	19	19	19	19	19
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	3	3	3	3	3	3	3	3
	Industrial Forecast	9	9	9	9	9	9	9	9
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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9. Bonnechere Valley		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Q4 2022	Q1 2023	Q1 2023	Q1 2023	Q2 2023	Q3 2023	Complete
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required	Required
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Required	Required	Required	Required	Required	Required	Required	Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Scheduled for Q2 2024	Scheduled for Q2 2024	Scheduled for Q2 2024	Scheduled for Q3 2024
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Q3 2025	Q2 2026	Q2 2026	Q3 2026
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	581	581	581	581	581	584*	584*	656
	Commercial Forecast	79	79	79	79	79	70*	70*	63
	Institutional Forecast	3	3	3	3	3	0*	0*	2
	Agricultural Forecast	1	1	1	1	1	2*	2*	2
	Industrial Forecast	10	10	10	10	10	10	10	0
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.**		0	0	0	0	0	0	0	0

*the revised count of 723 customers is based on forecast refinement

**amount received from IESO

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10. South Glengarry Township		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	None	None	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.		Environmental	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
		Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
		Municipal Consent	Required	Required	Required	Required	Required	Required	Required
		Special Road Permit	Required	Required	Required	Required	Required	Required	Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).		Residential Forecast	71	71	71	71	71	71	71
		Commercial Forecast	4	4	4	4	4	4	4
		Institutional Forecast	0	0	0	0	0	0	0
		Agricultural Forecast	0	0	0	0	0	0	0
		Industrial Forecast	2	2	2	2	2	2	2
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).		Residential Actual	0	0	0	0	0	0	0
		Commercial Actual	0	0	0	0	0	0	0
		Institutional Actual	0	0	0	0	0	0	0
		Agricultural Actual	0	0	0	0	0	0	0
		Industrial Actual	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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11. Grimsby-Lincoln		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Not Required	Not Required	Not Required	Required	Required	Required	Required	Required
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Not Required	Required	Required	Required	Required	Required	Required	Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	0	0	0	0	0	0	0	0
	Commercial Forecast	2	2	2	2	2	2	2	2
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	7	7	7	7	7	7	7	7
	Industrial Forecast	0	0	0	0	0	0	0	0
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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12. Haldimand		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	In Progress	In Progress	In Progress	In Progress	In Progress	Complete	Complete
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Q1 2022	Complete	Complete	Complete	Complete	Complete	Complete	Complete
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Complete	Complete	Complete	Complete	Complete	Complete	Complete
	Other	Required	Required	Requested	Requested	Complete	Complete	Complete	Complete
	Municipal Consent	Required	Required	Required	Complete	Complete	Complete	Complete	Complete
	Special Road Permit	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Scheduled for Q3 2022	Scheduled for Q3 2022	Scheduled for Q3 2022	Scheduled for Q4 2022	Construction In Progress	Construction Complete	Construction Complete	Construction Complete
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Q4 2022	Q4 2022	Q4 2022	Q1 2023	Complete	Complete	Complete
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	108	112	112	112	112	112	112	112
	Commercial Forecast	1	0	0	0	0	0	0	0
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	0	0	0	0	0	0	0	0
	Industrial Forecast	0	0	0	0	0	0	0	0
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	6	64	64
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	\$ 2,827,923.00	Funding received in Q4 2022	Funding received in Q4 2022	Funding received in Q4 2022

*amount received from IESO

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13. City of Hamilton		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Not Required	Required	Required	Required	Required	Required	Required	Required
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Not Required	Required	Required	Required	Required	Required	Required	Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Schedule Under Development	Schedule Under Development	Schedule Under Development	Schedule Under Development	Schedule Under Development	Schedule Under Development	Construction in progress
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Q4 2023 & Q4 2024	Q4 2023 & Q4 2024
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	0	0	0	0	0	0	0	0
	Commercial Forecast	12	12	12	12	12	12	12	12
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	0	0	0	0	0	0	0	0
	Industrial Forecast	0	0	0	0	0	0	0	0
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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14. Hunstville		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	In Progress	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Q4 2022	Q4 2022	Q4 2022	Q4 2022	Complete	Complete	Complete
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Complete	Complete
	Other	Not Required	Required	Required	Required	Required	Required	Required	Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Requested	Requested
	Special Road Permit	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Scheduled for Q3 2023	Scheduled for Q3 2023	Scheduled for Q3 2023	Scheduled for Q3 2023	Scheduled for Q3 2023	Scheduled for Q3 2023	Scheduled for Q3 2023
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Q3 2023	Q3 2023	Q3 2023	Q4 2023	Q4 2023	Q4 2023
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	103	103	103	103	110	110	130	130
	Commercial Forecast	0	0	0	0	0	0	0	0
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	0	0	0	0	0	0	0	0
	Industrial Forecast	0	0	0	0	0	0	0	0
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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15. Kenora District		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		In Progress	In Progress	In Progress	Complete	Complete	Complete	Complete	Complete
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Not Required	Requested	Complete	Complete	Complete	Complete	Complete	Complete
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Requested	Complete	Complete	Complete	Complete	Complete	Complete
	Special Road Permit (MTO)	Required	Requested	Complete	Complete	Complete	Complete	Complete	Complete
4. The schedule for construction of the project and the progress made in the preceding quarter.		Scheduled for Q2 2022	Scheduled for Q3 2022	Scheduled for Q3 2022	Construction Complete	Construction Complete	Construction Complete	Construction Complete	Construction Complete
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Q3 2022	Q3 2022	Q3 2022	Complete	Complete	Complete	Complete	Complete
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	27	27	27	33	33	33	33	33
	Commercial Forecast	2	2	2	2	2	2	2	2
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	0	0	0	0	0	0	0	0
	Industrial Forecast	1	1	1	1	1	1	1	1
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	27	32	32	32	32	32
	Commercial Actual	0	0	2	3	3	3	3	3
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	1	1	1	1	1	1
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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16. Drummond		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	None	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required	Required
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Required	Required	Required	Required	Required	Required	Required	Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	282	282	282	282	282	282	282	282
	Commercial Forecast	40	40	40	40	40	40	40	40
	Institutional Forecast	2	2	2	2	2	2	2	2
	Agricultural Forecast	0	0	0	0	0	0	0	0
	Industrial Forecast	10	10	10	10	10	10	10	10
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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17. Merrickville-Wolford		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	None	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Q1 2024
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required	Required
	Other	Required	Required	Required	Required	Required	Required	Required	Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	58	58	58	58	58	58	58	58
	Commercial Forecast	6	6	6	6	6	6	6	6
	Institutional Forecast	2	2	2	2	2	2	2	2
	Agricultural Forecast	0	0	0	0	0	0	0	0
	Industrial Forecast	3	3	3	3	3	3	3	3
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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18. Mohawks of the Bay of Quinte		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Q4 2022	Q4 2022	Q4 2022	Q4 2022	Complete	Complete	Complete
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Requested	Requested
	Other	Required	Required	Required	Required	Required	Required	Requested	Complete
	Municipal Consent	Required	Required	Required	Required	Required	Required	Requested	Complete
	Special Road Permit	Required	Required	Required	Required	Required	Required	Requested	Complete
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Scheduled for Q2 2023	Scheduled for Q2 2023	Scheduled for Q2 2023	Scheduled for Q3 2023	Scheduled for Q3 2023	Scheduled for Q3 2023	Scheduled for Q4 2023
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	124	124	124	166	166	166	166	166
	Commercial Forecast	2	1	1	11	11	11	11	11
	Institutional Forecast	2	1	1	1	1	1	1	1
	Agricultural Forecast	0	0	0	0	0	0	0	0
	Industrial Forecast	3	0	0	1	1	1	1	1
	Residential Actual	0	0	0	0	0	0	0	0
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
	Residential Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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19. West Grey		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	None	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Q3 2023	Q3 2023	Q3 2023
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required	Required
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Scheduled for Q2 2024	Scheduled for Q2 2025	Scheduled for Q3 2024
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Q3 2024	Q4 2025	Q1 2025
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	188	188	188	188	208	182	182	201
	Commercial Forecast	28	28	28	28	25	34	34	26
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	1	1	1	1	1	1	1	0
	Industrial Forecast	2	2	2	2	2	2	2	3
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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20. Perth East		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	None	Complete	Complete
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Complete	Complete	Complete	Complete	Complete	Complete	Complete
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Complete	Complete	Complete	Complete	Complete	Complete	Complete
	Special Road Permit	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Scheduled for Q2 2022	Scheduled for Q2 2022	Construction Complete	Construction Complete	Construction Complete	Construction Complete	Construction Complete	Construction Complete
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Q2 2022	Q2 2022	Complete	Complete	Complete	Complete	Complete	Complete
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	35	35	35	37	37	37	37	37
	Commercial Forecast	5	5	5	3	3	3	3	3
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	1	1	1	0	0	0	0	0
	Industrial Forecast	3	3	3	0	0	0	0	0
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	37	37	37	37	38	39
	Commercial Actual	0	0	3	3	3	3	4	4
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	\$ 814,850	0	0	0	0	0

*amount received from IESO

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21. Prince Edward County		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	In Progress	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Q2 2023	Q2 2023	Q3 2023	Q1 2024
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required	Required
	Other	Not Required	Not Required	Not Required	Required	Required	Required	Required	Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Scheduled for Q4 2023	Scheduled for Q4 2023	Scheduled for Q1 2024	Scheduled for Q1 2025	Scheduled for Q2 2025
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Q1 2024	Q3 2024	Q3 2024	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	134	134	134	134	180	180	187	187
	Commercial Forecast	13	13	13	13	15	15	15	15
	Institutional Forecast	1	1	1	1	1	1	1	1
	Agricultural Forecast	1	1	1	1	0	0	0	0
	Industrial Forecast	3	3	3	3	2	2	1	1
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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22. Red Rock First Nation		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023	
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	In Progress	In Progress	In Progress	In Progress	In Progress	
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.		Environmental	Required	Required	Required	Required	Required	Required	Required	
		Other	Required	Required	Required	Required	Required	Required	Required	
		Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
		Special Road Permit	Required	Required	Required	Required	Required	Required	Required	Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).		Residential Forecast	68	68	68	68	68	68	68	
		Commercial Forecast	9	9	9	9	9	9	9	
		Institutional Forecast	0	0	0	0	0	0	0	
		Agricultural Forecast	0	0	0	0	0	0	0	
		Industrial Forecast	0	0	0	0	0	0	0	
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).		Residential Actual	0	0	0	0	0	0	0	
		Commercial Actual	0	0	0	0	0	0	0	
		Institutional Actual	0	0	0	0	0	0	0	
		Agricultural Actual	0	0	0	0	0	0	0	
		Industrial Actual	0	0	0	0	0	0	0	
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0	

*amount received from IESO

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23. Uxbridge Township		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	In Progress	In Progress	In Progress	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Q1 2023	Q2 2023	Q2 2023	Q3 2023	Q3 2023
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required	Required
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Schedule Under Development	Schedule Under Development	Schedule Under Development	Scheduled for Q1 2024	Scheduled for Q2 2024	Scheduled for Q2 2024	Scheduled for Q2 2024	Scheduled for Q3 2024
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Q1 2025	Q1 2025	Q1 2025	Q1 2025
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	130	130	130	130	168	174	174	174
	Commercial Forecast	6	6	6	6	7	7	7	7
	Institutional Forecast	1	1	1	1	1	1	1	1
	Agricultural Forecast	1	1	1	1	1	1	1	1
	Industrial Forecast	2	2	2	2	0	0	0	0
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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24. Selwyn Township		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Q2 2022	Q2 2022	Q4 2022	Q4 2022	Q4 2022	Complete	Complete	Complete
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Complete	Complete
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Requested	Complete
	Special Road Permit	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Scheduled for Q4 2022	Scheduled for Q4 2022	Scheduled for Q3 2023	Scheduled for Q3 2023	Scheduled for Q3 2023	Scheduled for Q3 2023	Scheduled for Q3 2023	Scheduled for Q4 2023
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Q2 2023	Q2 2023	Q1 2024	Q1 2024	Q1 2024	Q1 2024	Q1 2024	Q1 2024
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	54	60	60	55	66	66	66	66
	Commercial Forecast	8	17	17	17	14	14	14	14
	Institutional Forecast	0	0	0	0	0	0	0	0
	Agricultural Forecast	1	0	0	1	1	1	1	1
	Industrial Forecast	14	0	0	5	6	6	6	6
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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25. Severn		Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	None	In Progress	In Progress
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required	Required
	Other	Required	Required	Required	Required	Required	Required	Required	Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Required	Required	Required	Required	Required	Required	Required	Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	678	678	678	678	678	678	678	678
	Commercial Forecast	38	38	38	38	38	38	38	38
	Institutional Forecast	1	1	1	1	1	1	1	1
	Agricultural Forecast	0	0	0	0	0	0	0	0
	Industrial Forecast	6	6	6	6	6	6	6	6
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0	0

*amount received from IESO

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26. St. Charles		Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	None	None
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit	Not Required	Not Required	Required	Required	Required	Required	Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	143	143	143	143	143	143	143
	Commercial Forecast	17	17	17	17	17	17	17
	Institutional Forecast	1	1	1	1	1	1	1
	Agricultural Forecast	0	0	0	0	0	0	0
	Industrial Forecast	1	1	1	1	1	1	1
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0

*amount received from IESO

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27. Ottawa		Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		Complete	Complete	Complete	Complete	Complete	Complete	Complete
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Complete	Complete	Complete	Complete	Complete	Complete	Complete
	Special Road Permit	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Scheduled for Q2 2022	Construction Complete	Construction Complete	Construction Complete	Construction Complete	Construction Complete	Construction Complete
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Q3 2022	Complete	Complete	Complete	Complete	Complete	Complete
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	10	10	10	10	10	10	10
	Commercial Forecast	0	0	0	0	0	0	0
	Institutional Forecast	0	0	0	0	0	0	0
	Agricultural Forecast	0	0	0	0	0	0	0
	Industrial Forecast	1	1	1	1	1	1	1
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	11	11	11	11	11	11
	Commercial Actual	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0
	Industrial Actual	0	1	1	1	1	1	1
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0

*amount received from IESO

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28. Tweed		Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
1. The status of any community consultations undertaken by the gas distributor in respect of the project.		None	None	None	None	None	None	None
2. The expected timeline for the filing of an application for leave to construct a hydrocarbon line under section 90 of the Act, if such an application is required.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
3. Progress updates on every necessary approval and permit for the project other than the leave to construct referred to above.	Environmental	Required	Required	Required	Required	Required	Required	Required
	Other	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required
	Municipal Consent	Required	Required	Required	Required	Required	Required	Required
	Special Road Permit - MTO	Not Required	Not Required	Required	Required	Required	Required	Required
4. The schedule for construction of the project and the progress made in the preceding quarter.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
5. Confirmation of the date on which the project is anticipated to come into service or the date on which the project came into service, as applicable.		Under Development	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
6a. The number of consumers in each of the following classes who are anticipated to be connected to the gas distributor's natural gas distribution system as a result of the project. Forecasted customer connections (10-year forecast).	Residential Forecast	54	54	54	54	54	54	54
	Commercial Forecast	4	4	4	4	4	4	4
	Institutional Forecast	0	0	0	0	0	0	0
	Agricultural Forecast	2	2	2	2	2	2	2
	Industrial Forecast	2	2	2	2	2	2	2
6b. The number of consumers in each of the following classes who have been connected. The number of services installed will be provided each quarter (totals are cumulative).	Residential Actual	0	0	0	0	0	0	0
	Commercial Actual	0	0	0	0	0	0	0
	Institutional Actual	0	0	0	0	0	0	0
	Agricultural Actual	0	0	0	0	0	0	0
	Industrial Actual	0	0	0	0	0	0	0
7. The amounts in any variance accounts established by the gas distributor under subsection 4 (2) in respect of the project.*		0	0	0	0	0	0	0

*amount received from IESO

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Page 1

Question(s):

- a) Please provide a table providing a table with a full reconciliation as between the estimated project costs in Table 1 and the amount estimated in the Company's original project proposal to the Government of Ontario (2019/2020) for funding under Phase 2 of the NGEF (EB-2019-0255).
- b) Please provide the complete copy of the above-referenced project proposal.
- c) Please provide the 40-year DCF table underling the project proposal to the Government of Ontario (2019/2020) for funding under Phase 2 of the NGEF (EB-2019-0255)

Response:

- a) Please see the response to Exhibit I.STAFF-3 part b).
- b) Please see Attachment 1 to Exhibit I.STAFF-3.
- c) Please see Attachment 1 to this response.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Page 1

Question(s):

- a) Please reproduce Table 1 with an added column showing the totals, including both pipeline costs and ancillary costs.
- b) Please provide Enbridge's definition of "ancillary costs" as that term is used in Table 1. Please provide a full explanation.
- c) Please compare the concept of "ancillary costs" with allocated overhead, including a reconciliation of the concepts in a table if there is partial overlap.

Response:

- a) Please see Exhibit E, Tab 1, Schedule 1, Table 1; column titled "Total".
- b) Generally, ancillary costs include all project costs not directly related to the pipeline facilities that require an order of the OEB granting leave to construct. Ancillary costs include but are not limited to the construction of facilities for individual customer services and stations (e.g., pressure regulation, measurement, odorization).

In the case of the proposed project, the facilities associated with ancillary costs include:

- 1 regulator station replacement (contractor labour and construction); and
 - Customer services (contractor labour, construction, and meter/regulator installation).
- c) There is no correlation between ancillary costs and overheads. Ancillary costs refer to natural gas asset types whereas project overheads account for the labour cost associated with full time employees and contingent workers supporting the project.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Page 1

Question(s):

- a) Please provide a table of figures showing, without rounding: the gross capital cost, the gross O&M costs over 40 years, the NPV of the O&M costs over 40 years, the subsidy, the gross revenue over 40 years, and the NPV of the revenue over 40 years.

Response:

- a) Please see the information in Table 1.

Table 1
Sandford Community Expansion Project Costs and Revenue

Line No.	Project Component	Amount
1	Gross Capital Costs	\$7,202,770
2	Gross O&M Over 40 Years	\$546,638
3	NPV of O&M Over 40 Years	\$210,409
4	Subsidy	\$4,392,566
5	Gross Revenue (including SES) Over 40 Years	\$8,628,120
6	NPV of Revenue (including SES) Over 40 Years	\$3,327,204

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Page 1

Question(s):

a) Please complete the following table:

Capital Costs Per Customer	
Forecast gas customers (total)	
Total capital costs	
Capital costs per customer	

b) Please complete the following table:

Capital and Operating Costs Per Customer	
Forecast gas customers (total)	
Total capital costs and gross O&M costs over 40 years	
Capital and O&M costs per customer	

c) Please complete the following table:

Capital and Operating Costs Per Customer (Excl. Costs Covered by the Subsidy)	
Forecast gas customers (total)	
Total capital costs and gross O&M costs minus the subsidy from existing customers	
Capital and O&M costs per customer (excl. subsidy)	

d) Please complete the following table:

NGEP Subsidy from Existing Customers	
Forecast gas customers (total)	
NGEP subsidy	
NGEP subsidy per customer	

Response:

a) Please see Table 1 below.

Capital Costs Per Customer	
Forecast gas customers (total)	183
Total capital costs	\$7,202,770
Capital costs per customer	\$39,359

b) Please see Table 2 below.

Capital and Operating Costs Per Customer	
Forecast gas customers (total)	183
Total capital costs and gross O&M costs over 40 years	\$7,749,408
Capital and O&M costs per customer	\$42,346

c) Please see Table 3 below.

Capital and Operating Costs Per Customer (Excl. Costs Covered by the Subsidy)	
Forecast gas customers (total)	183
Total capital costs and gross O&M costs minus the subsidy from existing customers	\$3,356,842
Capital and O&M costs per customer (excl. subsidy)	\$18,343

d) Please see Table 4 below.

NGEP Subsidy from Existing Customers	
Forecast gas customers (total)	183
NGEP subsidy	\$4,392,566
NGEP subsidy per customer	\$24,003

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Page 1

Question(s):

- a) If there are significant revenue shortfalls or cost overruns in years 1 through 10 that Enbridge is unable to recoup from increasing the system expansion surcharge, does Enbridge undertake not to seek to recoup the amounts from existing Enbridge customers?

- b) If there are significant revenue shortfalls or cost overruns in years 11 through 40 that Enbridge is unable to recoup from increasing the system expansion surcharge, does Enbridge undertake not to seek to recoup the amounts from existing Enbridge customers?

Response:

a - b)

Consistent with the direction in the OEB's EB-2020-0094 Decision,¹ upon placing the Project into service, Enbridge Gas will apply a 10-year rate stability period (RSP) during which the Company will bear the risk of the Project customer attachment and capital expenditure forecast vs. actuals. Enbridge Gas will file the actual costs and revenues of the Project with the OEB for consideration of inclusion in rates in the rebasing application following the conclusion of the RSP. The OEB has also determined that it will consider any questions about the treatment of any revenue surplus or shortfall beyond the RSP at that same time.² For these reasons, it is premature and unnecessary for the Company to make any further commitments with regard to cost recovery at this time.

¹ EB-2020-0094, Decision and Order, November 5, 2020, pp. 8-9.

² EB-2019-0188, Decision and Order, May 7, 2020: pp. 12-13.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) Please reproduce the DCF table with an illustrative scenario where customer attachments each year are 50% of those forecast. Enbridge does not need to agree this scenario is likely – it is intended to illustrate the cost impacts.
- b) With respect to the response to (a), please provide (i) the revenue deficiency over the first 10 years (both gross and NPV) and the (ii) the revenue deficiency over the remaining 30 years (both gross and NPV)

Response:

a - b)

The Company respectfully declines to provide the requested information. The attachment scenario suggested by ED is arbitrary and has no basis and can likely only be used to draw oversimplified conclusions, as any adjustments made to the attachment forecast would result in other Project components/scope being re-assessed/adjusted accordingly. The Company cautions against drawing conclusions based on selective modifications to components of the proposed Project, such as attachment forecasts, without consideration of all Project components in a holistic manner.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) Please complete the following table showing the outcomes in various scenarios in terms of the profitability index, NPV, and gross revenue deficiency. Enbridge does not need to agree these scenarios are likely.

Cost Impact of Different Customer Attachment / Revenue Scenarios					
	Profitability index	NPV	Revenue deficiency (years 1-10)	Revenue deficiency (years 11-40)	Revenue deficiency (years 1-40)
Volumes plateau in year 5 and do not increase					
After year 10, 10 customers exit the system each year (net)					
Volumes are 20% less than forecast each year					

Response:

- a) The Company respectfully declines to provide the requested information. The scenarios suggested by ED are arbitrary and have no basis and can likely only be used to draw oversimplified conclusions, as any adjustments made to parameters like the attachment forecast would result in other Project components/scope being re-assessed/adjusted accordingly. The Company cautions against drawing conclusions based on selective modifications to components of the proposed Project, such as attachment forecasts, without consideration of all Project components in a holistic manner.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) Please provide a full breakdown of the incremental capital costs shown in the DCF table, including a breakdown showing the connection costs included in the incremental capital.
- b) Please explain how the incremental capital figures in the DCF table were determined and provide all underlying figures and assumptions.
- c) Please indicate which of the following costs are included in the incremental capital costs shown in the DCF table:
 - i) The full cost of service lines, meters, regulators, and other capital needed to connect additional conversion customers (i.e. infills);
 - ii) The cost of service lines, meters, regulators, and other capital needed to connect additional conversion customers (i.e. infills), minus the extra length charges (ELC) that will be required by infill customers;
 - iii) The full cost of mains that are required in new developments that form part of the connection/revenue forecast;
 - iv) The full cost of mains that are required in new developments that form part of the connection/revenue forecast, minus contributions in aid of construction that will be required by developers;
 - v) Incremental overheads; and
 - vi) Normalized system reinforcement costs

Response:

- a) Please see Attachment 1 to this response for the full breakdown of the incremental capital cost.

- b) Please see Attachment 1 to this response. The incremental capital cost as presented in the DCF analysis at Exhibit E, Tab 1, Schedule 1, Attachment 2, is calculated by reducing the forecast of capital cost of the Project (approximately \$7.2 million) by NGEF funding (approximately \$4.4 million). The awarded NGEF funding offsets the overall cost of the Project, resulting in a net capital cost of \$2.8 million.
- c)
- i) Included.
 - ii) Included.
 - iii) Not applicable. No new developments have been identified within the project area.
 - iv) Not applicable. No new developments have been identified within the project area.
 - v) Included. Incremental overheads are included at 5% of the gross cost for each asset type and have been presented separately for each facility type in Attachment 1 to this response.
 - vi) Not Included. Normalized reinforcement costs are not applicable to community expansion projects.

Table 1
Capital Expenditure

Line No.		Total	2022-2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
1	Pipeline cost	\$4,809,997	\$4,809,997	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2	Pipeline cost_Incremental overheads	\$240,500	\$240,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Ancillary Facilities_Distribution Station	\$133,669	\$133,669	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Ancillary Facilities_Distribution Station_Incremental overheads	\$6,683	\$6,683	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5	Ancillary Facilities_Customer Services	\$1,916,115	\$345,143	\$368,296	\$271,890	\$198,792	\$195,674	\$101,652	\$105,617	\$109,736	\$114,016	\$105,300
6	Ancillary Facilities_Customer Services_Incremental overheads	\$95,806	\$17,257	\$18,415	\$13,594	\$9,940	\$9,784	\$5,083	\$5,281	\$5,487	\$5,701	\$5,265
7	Gross Capital Costs	\$7,202,770	\$5,553,249	\$386,711	\$285,484	\$208,731	\$205,457	\$106,735	\$110,898	\$115,223	\$119,716	\$110,565
8	NGEP Funding	(\$4,392,566)	(\$4,255,000)	(\$137,566)								
9	Net Capital Costs	\$2,810,204	\$1,298,249	\$249,145	\$285,484	\$208,731	\$205,457	\$106,735	\$110,898	\$115,223	\$119,716	\$110,565

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Preamble:

These questions relate to the costs of individual customer attachments (i.e. dedicated service line and meter), the portion of those costs that will be borne via up-front payments by customers considering a switch to gas, and how this might impact the number of attachments as customers consider gas versus heat pumps.

Question(s):

- a) Please confirm that the Extra Length Charge applies in community expansion areas. If not, please explain, including an explanation as to when that changed, why that changed, and whether approval was sought from the OEB for that change.
- b) Please provide the details of the existing Extra Length Charge.
- c) Please confirm that the existing Extra Length Charge is insufficient to meet the 40-year revenue horizon maximum in EBO 188.
- d) What Extra Length Charge is Enbridge proposing to institute in 2024 in its current rates case?
- e) Please confirm how many intervenors in Enbridge's rates case have requested in their submissions (i) a higher Extra Length Charge than proposed by Enbridge and (ii) a lower extra length charge than proposed by Enbridge.
- f) Please provide a rough estimate of the Extra Length Charge that would be applicable to the buildings in the project area on average, at the high end, and at the low end.
- g) Please provide a table showing, for all the buildings in the project area, the approximate length of service line that will be required. If Enbridge does not have that information, please obtain it on an approximate basis using mapping tools. The list does not need to use addresses. Please use simplifying assumptions if Enbridge

wishes to do so (e.g. that the service line will run in a straight line from the edge of the shoulder to the nearest point on the house). [Note that this should not be onerous, and Environmental Defence would complete the task if it was permitted to submit evidence. We tested this task with Google Maps, and we were able to record measurements of approximately 5 buildings per minute.]

- h) Please add to the table from (g): the approximate Extra Length Charge that would apply for that building (pre-tax) and the total including tax (if tax is applied), for the existing ELC and the proposed ELC.
- i) Please explain how Enbridge determines the length for the purpose of calculating the Extra Length Charge. For instance, is the length measured from the actual gas main, or from some other point (e.g. the edge of the road or the edge of the shoulder)? For customers on the opposite side of the road as the main, do they or Enbridge cover the incremental costs of getting the service line underneath the road

Response:

- a) Confirmed.
- b) Regarding the Project area specifically, the policy details outline that new residential customers connecting to existing mains are provided, at no cost, with a service connection up to a maximum of 20 meters. For services beyond this threshold, customers pay an ELC at a rate of \$32 per meter in excess of 20 meters.
- c) Enbridge Gas interprets the interrogatory to be asking whether the existing ELC described in part b) above will be insufficient to ensure a Project Profitability Index (PI) of 1.0. Not confirmed. The Project's PI of 1.0 is provided within the DCF analysis at Exhibit E, Tab 1, Schedule 1, Attachment 2.
- d) Determination of the ELC rate is contingent upon the OEB decision on the revenue horizon in EB-2022-0200. Enbridge Gas will propose new ELC rates based on the OEB decision in 2024 rebasing application.
- e) The proposals and submissions referenced by ED within the interrogatory are currently before the OEB in another proceeding and it remains to be determined by the OEB as to whether they will be accepted. As a result, it would not be of assistance to provide responses regarding proposals and submissions that are not within the scope of this proceeding, not in effect, and the decision of the OEB is unknown.

f) – h)

Please see Attachment 1 to this response for the requested table. The table provides the following estimates for each building that Enbridge Gas could reasonably assess within the Project area, using information provided by Google Maps:

- Distance from property line to building line (m)
- Excess length over 20m (m)
- Pre-tax ELC (\$)
- After-tax ELC (\$)

Please see the following for information, assumptions, and caveats regarding the analysis:

- The analysis was conducted using information provided by Google Maps and should be considered illustrative estimates and not precise information.
- Measurements were taken as a straight line from the property line to the front of the building.
- Property lines were assumed. Where possible a landmark was used as a reference point (ex. hydro poll, telecommunications box, or other relevant object).
- Vacant lots were assumed to be 20 m.

The analysis was conducted using the existing ELC policy described in part b) above. The ELC proposal referenced by ED within the interrogatory is currently before the OEB in another proceeding and it remains to be determined by the OEB as to whether it will be accepted. As a result, it would not be of assistance to provide analysis based on parameters that are not in effect and may not be approved by the OEB.

Approximately 75% of buildings included within the analysis were 20 m or less from the property line and therefore would not incur an ELC. The lowest ELC is \$0 (75% of buildings). The average after-tax ELC is \$880.19. The highest after-tax ELCs are \$11,969, \$11,933, and \$10,848.

- i) The length of the service for the purpose of ELC is measured from the customer's property line to the location where the gas meter is installed. This rule is designed to treat all customers fairly and customers have no advantage or disadvantage if the main line is on their side or the opposite side of the road.

Sandford Community Expansion Project: Estimates of Extra Length Charges

Home Owner	Distance (Property Line to BL)	Excess length (Over 20 M)	Cost (32\$/M)+	HST	Total
1	10	0	\$ -	\$ 341.12	\$ 341.12
2	102	82	\$ -	\$ -	\$ -
3	20	0	\$ -	\$ -	\$ -
4	20	0	\$ -	\$ -	\$ -
5	20	0	\$ 2,848.00	\$ 370.24	\$ 3,218.24
6	109	89	\$ 1,248.00	\$ 162.24	\$ 1,410.24
7	59	39	\$ 1,760.00	\$ 228.80	\$ 1,988.80
8	75	55	\$ 2,752.00	\$ 357.76	\$ 3,109.76
9	106	86	\$ 1,600.00	\$ 208.00	\$ 1,808.00
10	70	50	\$ 1,600.00	\$ 208.00	\$ 1,808.00
11	90	50	\$ 4,064.00	\$ 528.32	\$ 4,592.32
12	147	127	\$ 2,752.00	\$ 357.76	\$ 3,109.76
13	106	86	\$ 3,520.00	\$ 457.60	\$ 3,977.60
14	130	110	\$ 9,600.00	\$ 1,248.00	\$ 10,848.00
15	320	300	\$ 7,616.00	\$ 990.08	\$ 8,606.08
16	258	238	\$ 2,592.00	\$ 336.96	\$ 2,928.96
17	101	81	\$ 352.00	\$ 45.76	\$ 397.76
18	31	11	\$ 288.00	\$ 37.44	\$ 325.44
19	29	9	\$ -	\$ -	\$ -
20	17	0	\$ -	\$ -	\$ -
21	17	0	\$ -	\$ -	\$ -
22	17	0	\$ -	\$ -	\$ -
23	17	0	\$ -	\$ -	\$ -
24	19	0	\$ -	\$ -	\$ -
25	12	0	\$ 32.00	\$ 4.16	\$ 36.16
26	21	1	\$ 224.00	\$ 29.12	\$ 253.12
27	27	7	\$ -	\$ -	\$ -
28	16	0	\$ -	\$ -	\$ -
29	16	0	\$ -	\$ -	\$ -
30	16	0	\$ -	\$ -	\$ -
31	18	0	\$ -	\$ -	\$ -
32	19	0	\$ -	\$ -	\$ -
33	13	0	\$ -	\$ -	\$ -
34	18	0	\$ -	\$ -	\$ -
35	16	0	\$ -	\$ -	\$ -
36	19	0	\$ -	\$ -	\$ -
37	14	0	\$ -	\$ -	\$ -
38	16	0	\$ -	\$ -	\$ -
39	11	0	\$ -	\$ -	\$ -
40	7	0	\$ -	\$ -	\$ -
41	10	0	\$ -	\$ -	\$ -
42	6	0	\$ -	\$ -	\$ -
43	10	0	\$ -	\$ -	\$ -
44	4	0	\$ 128.00	\$ 16.64	\$ 144.64
45	4	4	\$ -	\$ -	\$ -
46	17	0	\$ -	\$ -	\$ -
47	6	0	\$ -	\$ -	\$ -
48	13	0	\$ -	\$ -	\$ -
49	13	0	\$ -	\$ -	\$ -
50	14	0	\$ 64.00	\$ 8.32	\$ 72.32
51	22	2	\$ -	\$ -	\$ -
52	20	0	\$ -	\$ -	\$ -
53	12	0	\$ -	\$ -	\$ -
54	17	0	\$ -	\$ -	\$ -
55	16	0	\$ -	\$ -	\$ -
56	16	0	\$ -	\$ -	\$ -
57	19	0	\$ -	\$ -	\$ -
58	19	0	\$ -	\$ -	\$ -
59	17	0	\$ -	\$ -	\$ -
60	20	0	\$ -	\$ -	\$ -
61	14	0	\$ -	\$ -	\$ -

Sandford Community Expansion Project: Estimates of Extra Length Charges

Home Owner	Distance (Property Line to BL)	Excess length (Over 20 M)	Cost (32\$/M)+	HST	Total
62	15	0	\$ 10,560.00	\$ 1,372.80	\$ 11,932.80
63	350	330	\$ -	\$ -	\$ -
64	5	0	\$ 160.00	\$ 20.80	\$ 180.80
65	25	5	\$ 544.00	\$ 70.72	\$ 614.72
66	37	17	\$ -	\$ -	\$ -
67	10	0	\$ -	\$ -	\$ -
68	18	0	\$ -	\$ -	\$ -
69	16	0	\$ 6,816.00	\$ 886.08	\$ 7,702.08
70	233	213	\$ 9,152.00	\$ 1,189.76	\$ 10,341.76
71	306	286	\$ -	\$ -	\$ -
72	17	0	\$ -	\$ -	\$ -
73	18	0	\$ -	\$ -	\$ -
74	10	0	\$ 608.00	\$ 79.04	\$ 687.04
75	39	19	\$ 320.00	\$ 41.60	\$ 361.60
76	30	10	\$ 608.00	\$ 79.04	\$ 687.04
77	39	19	\$ 5,952.00	\$ 773.76	\$ 6,725.76
78	206	186	\$ 544.00	\$ 70.72	\$ 614.72
79	37	17	\$ 896.00	\$ 116.48	\$ 1,012.48
80	48	28	\$ 5,696.00	\$ 740.48	\$ 6,436.48
81	198	178	\$ 672.00	\$ 87.36	\$ 759.36
82	41	21	\$ -	\$ -	\$ -
83	10	0	\$ 288.00	\$ 37.44	\$ 325.44
84	29	9	\$ 416.00	\$ 54.08	\$ 470.08
85	33	13	\$ 1,568.00	\$ 203.84	\$ 1,771.84
86	69	49	\$ -	\$ -	\$ -
87	7	0	\$ -	\$ -	\$ -
88	20	0	\$ 352.00	\$ 45.76	\$ 397.76
89	31	11	\$ 2,400.00	\$ 312.00	\$ 2,712.00
90	95	75	\$ 384.00	\$ 49.92	\$ 433.92
91	32	12	\$ 512.00	\$ 66.56	\$ 578.56
92	36	16	\$ -	\$ -	\$ -
93	20	0	\$ 2,240.00	\$ 291.20	\$ 2,531.20
94	90	70	\$ -	\$ -	\$ -
95	13	0	\$ 3,232.00	\$ 420.16	\$ 3,652.16
96	121	101	\$ 6,880.00	\$ 894.40	\$ 7,774.40
97	235	215	\$ 2,336.00	\$ 303.68	\$ 2,639.68
98	93	73	\$ 3,104.00	\$ 403.52	\$ 3,507.52
99	117	97	\$ 10,592.00	\$ 1,376.96	\$ 11,968.96
100	353	331	\$ 3,488.00	\$ 453.44	\$ 3,941.44
101	129	109	\$ 896.00	\$ 116.48	\$ 1,012.48
102	48	28	\$ 512.00	\$ 66.56	\$ 578.56
103	36	16	\$ -	\$ -	\$ -
104	6	0	\$ -	\$ -	\$ -
105	17	0	\$ -	\$ -	\$ -
106	20	0	\$ -	\$ -	\$ -
107	20	0	\$ 128.00	\$ 16.64	\$ 144.64
108	24	4	\$ 160.00	\$ 20.80	\$ 180.80
109	25	5	\$ -	\$ -	\$ -
110	20	0	\$ -	\$ -	\$ -
111	15	0	\$ -	\$ -	\$ -
112	20	0	\$ -	\$ -	\$ -
113	12	0	\$ -	\$ -	\$ -
114	17	0	\$ -	\$ -	\$ -
115	14	0	\$ -	\$ -	\$ -
116	20	0	\$ -	\$ -	\$ -
117	15	0	\$ -	\$ -	\$ -
118	15	0	\$ -	\$ -	\$ -
119	12	0	\$ -	\$ -	\$ -
120	13	0	\$ -	\$ -	\$ -
121	13	0	\$ -	\$ -	\$ -
122	15	0	\$ -	\$ -	\$ -

Sandford Community Expansion Project: Estimates of Extra Length Charges

Home Owner	Distance (Property Line to BL)	Excess length (Over 20 M)	Cost (32\$/M)+	HST	Total
123	13	0	\$ -	\$ -	\$ -
124	14	0	\$ -	\$ -	\$ -
125	15	0	\$ -	\$ -	\$ -
126	18	0	\$ -	\$ -	\$ -
127	12	0	\$ -	\$ -	\$ -
128			\$ 544.00	\$ 70.72	\$ 614.72
129	37	17	\$ 448.00	\$ 58.24	\$ 506.24
130	34	14	\$ -	\$ -	\$ -
131	9	0	\$ -	\$ -	\$ -
132	13	0	\$ -	\$ -	\$ -
133	10	0	\$ -	\$ -	\$ -
134			\$ -	\$ -	\$ -
135	11	0	\$ -	\$ -	\$ -
136	12	0	\$ -	\$ -	\$ -
137	4	0	\$ -	\$ -	\$ -
138	7	0	\$ -	\$ -	\$ -
139	20	0	\$ -	\$ -	\$ -
140	19	0	\$ -	\$ -	\$ -
141	17	0	\$ -	\$ -	\$ -
142	17	0	\$ 4,544.00	\$ 590.72	\$ 5,134.72
143	162	142	\$ 320.00	\$ 41.60	\$ 361.60
144	30	10	\$ 640.00	\$ 83.20	\$ 723.20
145	40	20	\$ -	\$ -	\$ -
146	17	0	\$ 512.00	\$ 66.56	\$ 578.56
147	36	16	\$ 1,216.00	\$ 158.08	\$ 1,374.08
148	58	38	\$ 1,088.00	\$ 141.44	\$ 1,229.44
149	54	34	\$ 32.00	\$ 4.16	\$ 36.16
150	21	1	\$ 448.00	\$ 58.24	\$ 506.24
151	34	14	\$ 416.00	\$ 54.08	\$ 470.08
152	33	13	\$ 1,152.00	\$ 149.76	\$ 1,301.76
153	56	36	\$ 7,680.00	\$ 998.40	\$ 8,678.40
154	260	240	\$ 64.00	\$ 8.32	\$ 72.32
155	22	2	\$ 192.00	\$ 24.96	\$ 216.96
156	26	6	\$ 480.00	\$ 62.40	\$ 542.40
157	35	15	\$ 1,632.00	\$ 212.16	\$ 1,844.16
158	71	51	\$ 4,896.00	\$ 636.48	\$ 5,532.48
159	173	153	\$ -	\$ -	\$ -
160	15	0	\$ -	\$ -	\$ -
161	13	0	\$ -	\$ -	\$ -
162	12	0	\$ -	\$ -	\$ -
163	12	0	\$ -	\$ -	\$ -
164	11	0	\$ -	\$ -	\$ -
165	13	0	\$ -	\$ -	\$ -
166	12	0	\$ -	\$ -	\$ -
167	12	0	\$ -	\$ -	\$ -
168	11	0	\$ 128.00	\$ 16.64	\$ 144.64
169	24	4	\$ -	\$ -	\$ -
170	17	0	\$ 160.00	\$ 20.80	\$ 180.80
171	25	5	\$ -	\$ -	\$ -
172	20	0	\$ 352.00	\$ 45.76	\$ 397.76
173	31	11	\$ -	\$ -	\$ -
174	18	0	\$ 416.00	\$ 54.08	\$ 470.08
175	33	13	\$ -	\$ -	\$ -
176	16	0	\$ 320.00	\$ 41.60	\$ 361.60
177	30	10	\$ 224.00	\$ 29.12	\$ 253.12
178	27	7	\$ 192.00	\$ 24.96	\$ 216.96
179	26	6	\$ -	\$ -	\$ -
180	19	0	\$ -	\$ -	\$ -
181	16	0	\$ 448.00	\$ 58.24	\$ 506.24
182	34	14	\$ 384.00	\$ 49.92	\$ 433.92
183	32	12	\$ 288.00	\$ 37.44	\$ 325.44

Sandford Community Expansion Project: Estimates of Extra Length Charges

Home Owner	Distance (Property Line to BL)	Excess length (Over 20 M)	Cost (32\$/M)+	HST	Total
184	29	9	\$ 224.00	\$ 29.12	\$ 253.12
185	27	7	\$ 224.00	\$ 29.12	\$ 253.12
186	27	7	\$ -	\$ -	\$ -
187	14	0	\$ -	\$ -	\$ -
188	13	0	\$ -	\$ -	\$ -
189	10	0	\$ -	\$ -	\$ -
190	8	0	\$ -	\$ -	\$ -
191	12	0	\$ -	\$ -	\$ -
192	10	0	\$ -	\$ -	\$ -
193	12	0	\$ -	\$ -	\$ -
194	9	0	\$ -	\$ -	\$ -
195	11	0	\$ -	\$ -	\$ -
196	9	0	\$ -	\$ -	\$ -
197	12	0	\$ -	\$ -	\$ -
198	16	0	\$ -	\$ -	\$ -
199	11	0	\$ -	\$ -	\$ -
200	13	0	\$ -	\$ -	\$ -
201	11	0	\$ -	\$ -	\$ -
202	13	0	\$ -	\$ -	\$ -
Average Cost		24.585	\$ 765.94	\$ 101.26	\$ 867.20

Legend
B.L - Building Line
Farm & Residential
Commercial

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Preamble:

EBO 188 Appendix B Guidelines state:

2. STANDARD TEST FOR FINANCIAL FEASIBILITY

The standard test for determining the financial feasibility at both the project and the portfolio level will be a DCF analysis, as set out below.

2.1 DCF Calculation and Common Elements

...

For capital costs, the common elements will be as follows:

- (a) an estimate of all costs directly associated with the attachment of the forecast customer additions, including costs of distribution mains, services, customer stations, distribution stations, land and land rights;
- (b) an estimate of incremental overheads applicable to distribution expansion at the portfolio level; and
- (c) an estimate of the normalized system reinforcement costs.

Question(s):

- a) Please provide a table showing for each year and as a total: (i) the incremental overheads and (ii) the normalized system reinforcement costs.
- b) Please reproduce the DCF table with rows breaking out the incremental capital costs as between direct costs, incremental overheads, and normalized system reinforcement costs. If any of those costs are not included, please reproduce the DCF table including those costs.
- c) If Enbridge did not include normalized system reinforcement cost, please fully explain why that is justified. Please refer to and attach and supporting documents.

d) Please provide maps showing the upstream pipelines in Ontario that feed the pipelines in the project area.

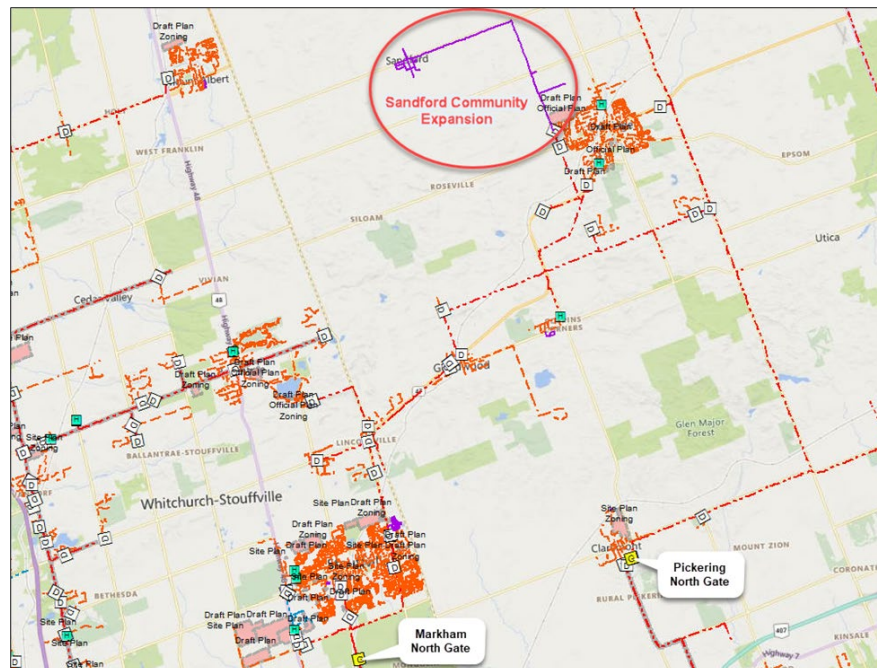
Response:

a) - c)

Please see the response at Exhibit I.ED-20 including Attachment 1.

d) Please see the circled area in Figure 1. The Project will tie into the existing Nominal Pipe Size (NPS) 4 Intermediate pressure (IP) polyethylene (PE) Enbridge Gas system at the intersection of Concession Road 6 and Bolton Drive. The pipeline will extend northwest along Concession Road 6 to Sandford Road before heading southwest into the Community of Sandford. Below is a map showing upstream pipelines that feed the pipelines in the Project area. The upstream system feeding Sandford receives its supply from TC Energy through Pickering and Markham Gate Stations.

Figure 1: Upstream Pipelines that Feed the Pipelines in the Project Area



ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) For this project, what is the forecast average all-in cost to connect a new residential customer to the gas system, including the cost of the meter, regulator, the pipe serving that specific customer, and the installation costs? Please differentiate between conversions and new build customers if possible.
- b) Please provide a table showing, for each year, the forecast customer attachments, the estimated average cost to attach a customer (e.g. the meter, the pipe serving that customer only, labour, etc.), the estimated cost that will be covered by rates, and the estimated cost that will be covered by the customers directly.
- c) Please reproduce the DCF table with a row showing the customer attachment costs (i.e. the meter, the pipe serving that customer only, labour, etc.) for each year broken out from other costs. If those costs are not included, please reproduce the DCF table including those costs.
- d) What are the average incremental operational costs for Enbridge per average residential customer (e.g. billing, etc). Please provide a breakdown of these costs.
- e) Are the costs in (c) included in the DCF table?

Response:

- a) There are several factors that influence the cost of servicing that can result in significant variability between projects. These factors include but are not limited to: site specific ground conditions (e.g., presence of rock), land parcel and building configuration, service length, location and depth of the connecting main (for tie in), and customer type (design varies based on connected load).

Project specific service estimates are prepared for each community expansion project based on measured average service lengths, general sizing for the project

and site conditions. These project-specific estimates more accurately reflect the cost of servicing in the proposed project area, which may differ from the Company's regional averages (established across a broader geographic location).

The estimated average all-in service cost for the Project is \$11,584 per customer.¹ Enbridge Gas does not have average all-in costs specific to new residential customers within the Project area.

- b) Please see Table 1 below for information regarding forecast customer attachments and estimated costs to attach customers by year. Enbridge Gas is not able to provide the estimated cost to attach customers by the amount that would be covered by rates and the amount that would be covered by customers directly. Enbridge Gas is not able to provide those amounts as they are not reasonably attributable to the specific costs to attach a customer (e.g., the meter, the pipe serving that customer only) versus the costs for other components of the Project (e.g., mains, stations) and are attributed to the Project in its entirety.

For example, customers who attach to the natural gas system as part of the Project will be charged a System Expansion Surcharge which is not attributable to the costs to attach the customer versus the cost for other components of the project. Similarly, NGEF funding is also not attributable in this manner.

¹ This figure includes residential, commercial and industrial customer connection costs.

Table 1
Service Cost for Residential Customers

Line No.	Description	Year										
		1	2	3	4	5	6	7	8	9	10	Total
1.0	Forecasted attachment	34	34	25	18	18	9	9	9	9	8	173
2.1	Average service cost/customer (\$CAD)	11,584	11,584	11,584	11,584	11,584	11,584	11,584	11,584	11,584	11,584	11,584
2.2	Average excess footage charge/customer (\$CAD)	(590)	(590)	(590)	(590)	(590)	(590)	(590)	(590)	(590)	(590)	(590)
2.3	Average net service cost/customer (\$CAD)	10,994	10,994	10,994	10,994	10,994	10,994	10,994	10,994	10,994	10,994	10,994
2.4	Estimated total net service cost (\$CAD)	373,799	373,799	274,853	197,894	197,894	98,947	98,947	98,947	98,947	87,953	1,901,980

Notes:

Row 1.0 represents the forecasted customer attachments per year.

Row 2.1 represents the average base capital cost per customer to install a service for the Project.

Row 2.2 represents the average excess footage charge per customer for the project (paid by customers). For the legacy Enbridge Gas Distribution franchise area, this excess footage charge is \$32/m after the first 20 m from the property line. The new connection policy proposed in the rebasing application was not used in this analysis.

Row 2.3 represents the average net base capital cost per customer to install a service for the Project.

Row 2.4 represents the total net base capital cost for service installations for the forecasted customer attachment in the given year.

c) Please see Attachment 1 to the response at Exhibit I.ED-20.

d) The annual average incremental operational costs per average residential customer is shown in Table 2 below.

Table 2

Annual Average Incremental Operational Costs

Line No.	Item	O&M Cost
1	Distribution Operations	\$17.77
2	Customer Care	\$50.66
3	Employee Benefits	\$6.45
4	Average Total O&M Cost per Residential Customer	\$74.89

e) Yes.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) What is the forecast average all-in cost to connect a new residential customer to the gas system, including the cost of the meter, regulator, the pipe serving that specific customer, and the installation costs? Please differentiate between conversions and new build customers if possible. Please provide figures for Enbridge as a whole, the Enbridge rate zones, and the Union rate zones, as available. Please also include a breakdown between direct costs, incremental overheads, and normalized system reinforcement costs.
- b) How much up-front capital can the revenue from an individual customer support while maintaining a PI of 1.

Response:

- a) The estimated average all-in service cost for the Sandford Community Expansion Project is \$11,584 per customer¹. Please see the response to Exhibit I.ED-23 part a).

Regarding the requested breakdown between direct costs, incremental overheads and normalized system reinforcement costs, please see the response to Exhibit I.ED-20 including Attachment 1.

The average cost to connect a home to the natural gas system in the EGD rate zone² is \$5,673 and Union rate zone³ is \$8,097.⁴

¹ Note: This figure includes Residential, Commercial and Industrial customer connection costs.

² The average cost to connect a home in the EGD rate zone includes the weighted average cost of both new construction and existing homes and is based on the 2024 forecast revenues and costs.

³ The average cost to connect a customer in the Union rate zones, is the average cost of all types of customers including residential, commercial, apartments and industrial and is based on the 2024 forecast revenues and costs.

⁴ EB-2022-0200, Exhibit JT3.11.

- b) For the Project, the upfront capital that can be supported by an individual customer is \$15,356. This number is derived by dividing the net capital cost (\$2,810,204) by total forecast customers (183).

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) Please provide a table showing the full calculations and assumptions used to generate the revenue forecast from the customer attachment forecast. Please include, among other things, the annual customer attachments, annual customer totals, the use per customer, and the revenue generated per customer.
- b) If the customer attachment forecast underlying the DCF table differs from the one set out in Exhibit B, Tab 1, Schedule 1, Page 7, please explain and provide a reconciliation table.
- c) Does Enbridge agree that the number of customer attachments could be impacted by the relative cost-effectiveness of converting to gas versus converting to high-efficiency cold climate air source heat pumps? If not, please explain.
- d) Does Enbridge agree that the number of customer attachments could be impacted by customer perceptions of the relative cost-effectiveness of converting to gas versus converting to high-efficiency cold climate air source heat pumps? If not, please explain.
- e) Please explain the basis for all of the average use assumptions underlying the revenue forecast.

Response:

- a) Please refer to the Attachment 1 to this response.
- b) The customer attachment forecast underlying the DCF table is consistent with the one set out in Exhibit B, Tab 1, Schedule 1, page 7.

c) – d)

No. The attachment forecast is based on the energy interests expressed by actual residents and business-owners within the Project area, which intrinsically incorporate all factors including financial and non-financial considerations. The Company has no reason to believe that the attachment forecast is inaccurate.

e) Field validation of businesses identified in the Municipal Property Assessment Corporation (MPAC) data are reviewed to assess and confirm loads which are then integrated into the system design and feasibility.

Residential loads were determined by reviewing property characteristics in the MPAC data, such as the square footage of homes and conducting a high-level field verification across the Project scope to validate the assumptions.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) Please describe all studies and analysis that Enbridge has undertaken to determine the likelihood of residential customers switching from gas to electric heat pumps before the end of the 40-year revenue horizon (if any). Please file any studies or assessments that were undertaken.
- b) Please confirm that customers with propane furnaces that attach to Enbridge's system will be able to convert their existing furnaces to burn methane gas without replacing those furnaces?
- c) What is the estimate average age of propane furnaces for Enbridge customers in the expansion area? Please base the average on the best available information, including the Innovative Research Group survey results, and confirm whether the answer has added three years to the average life to reflect the passage of three years since the survey was conducted.
- d) If a customer with a propane furnace converts it to methane gas to connect to Enbridge's system, please confirm that they could subsequently switch away from Enbridge's system in favour of an electric heat pump when their furnace reaches the end of its life.

Response:

a) and d)

Enbridge Gas is not aware of, nor has it undertaken the requested analysis. The market survey results provided at Attachment 3 to Exhibit B, Tab 1, Schedule 1 are currently the best available information regarding potential customers' energy preferences in the Project Area. Customers are able to choose from all available energy sources the mix of energy that works best to meet their specific needs. A customer that is considering an electric heat pump may also choose retain their furnace as a backup to supplement their electric heating equipment.

- b) In vast majority of cases the answer is yes. The conversion of a furnace from propane to natural gas does not typically require an entirely new furnace. Customers should consult with a licensed HVAC contractor to confirm if their particular furnace is a good candidate for conversion. Typically, the only limiting factor would be the age of the furnace and if parts are readily available. In most cases, furnaces 10 years of age or newer are good candidates for conversions.
- c) Enbridge Gas interprets the request as pertaining to prospective customers in the Sanford project area and not existing Enbridge Gas customers. The average age of propane systems used as the primary heating source was 7.52 years when measured by the Forum survey between August 23 and September 18, 2022. For the purpose of calculating the average, responses of “less than one year old” were counted as 1.
- d) Enbridge Gas has not done any research on end-use applications with Innovative Research Group. Enbridge Gas, using the vendor Leger for field work, conducts an annual study with existing customers to measure the penetration of natural gas equipment among existing customers in single-family homes across the service area. Due to the high penetration of natural gas heating among existing customers, there are too few respondents with propane heating to produce a reliable estimate of equipment age for that group.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) How Enbridge will track and report on variances in average use, and potential revenue shortfalls arising therefrom over time, and who will bear those risks as between the shareholder and ratepayer in light of the average use variance account?
- b) With respect to the revenue generated in the first 10 years, does Enbridge or do ratepayers bear the risk of average use being lower than forecast? Please explain. Please describe how the average use variance account is relevant to this question.
- c) With respect to the revenue generated in the final 30 years, does Enbridge or do ratepayers bear the risk of average use being lower than forecast? Please explain. Please describe how the average use variance account is relevant to this question.

Response:

a - c)

Please see the response at Exhibit I.ED-41.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) Please provide Enbridge's best estimate of the relative cost-effectiveness of an average customer in the project area converting to an air-source cold climate heat pump versus gas. Please generate (i) the lifetime difference in total capital costs and operational costs (NPV) based on customer prices over the equipment lifetime and (ii) the difference in average annual operational costs over the equipment lifetime. Please include all material customer-facing costs and benefits, including energy costs, carbon costs, the Greener Homes Grant incentives for heat pumps, and the gains from more efficient summer cooling of an air source heat pump versus a traditional air conditioner. Please provide all calculations and assumptions. Please make assumptions and state caveats as necessary.
- b) Please re-run the cost comparison spreadsheet underlying (a) with the following assumptions:
- i. Customer-facing gas and electricity prices for the project area are based on either: (A) the average price over the past 12 months inflated by 2% annually going forward or (B) the current prices inflated by 2% annually going forward;
 - ii. A carbon price forecast consistent with the IESO 2050 Pathways to Decarbonization Report, namely: that the carbon price "[c]ontinues rising by \$15/tonne from 2030-2035, and thereafter increases with the rate of inflation."
 - iii. The installed cost and performance (COP/HSPF & SEER) of the cold climate air source heat pump is based on the Moovair Central heat pumps;¹
 - iv. The average SEER of an air conditioner is 13 (per EB-2021-0002, Exhibit I.10h.STAFF77);
 - v. Two scenarios for water heating: (A) the customer keeps their existing electric water heater and (B) the customer purchases a Rheem hybrid high-efficiency heat pump water heater;
 - vi. (vi) The customer's air conditioner is at 50% of its useful lifetime and its future replacement costs are avoided if the customer installs a heat pump; and
 - vii. (vii) The customer will incur the average Extra Length Charge if they switch to gas.

¹ The specs for the Moovair central can be found here: <https://moovair.ca/central-moov-2022/>

- c) Fall each scenario, please provide the lifetime NPV and the first-year annual operating costs for both options.
- d) Please provide the live spreadsheets containing these calculations.
- e) Please confirm that Moovair is a heat pump developed and sold by The Master Group, which is the largest independent HVAC-R distributor in Canada.² [To explain why we suggest using that model as a concrete example.]
- f) Do the average-use figures assumed in Enbridge's revenue forecast correspond to customers with gas for space heating only or also gas for other uses, such as water heating?
- g) Please confirm that there are over 430 models of centrally-ducted heat pumps on the Greener Homes Grant eligible equipment list with an HSPF (Region 5) of 10 or higher and that the top-rated Carrier 3-ton units have an HSPF (Region 5) of 11.3.
- h) Please confirm that there are over 270 models of centrally-ducted heat pumps rated for 30,000 BTUs or higher on the Greener Homes Grant eligible equipment list with an HSPF (Region 5) of 10 or higher.
- i) Please provide the conversion rate between region 4 and 5 HSPF figures and between HSPF and COP.
- j) Please provide a table for the duration of the customer attachment horizon with rows for:
 - i. The number of forecast attachments;
 - ii. The average capital cost per attachment (e.g. dedicated service line and meter);
 - iii. The amount of the attachment costs in (ii) covered by rates on average;
 - iv. The amount of the attachment costs in (ii) covered by the customer on average;
 - v. The total attachment costs (dedicated service line and meter) for each year; and
 - vi. A reconciliation of (v) with the incremental capital figures in the DCF table in E-1-1 Attachment 2.

Response:

- a) The Company does not have information regarding annual fuel costs and/or customer lifetime cost-effectiveness for electric heat pumps, specific to the homes in the Project area. However, in Q1 2023 the Company engaged Guidehouse Inc. (Guidehouse) to provide an assessment of the annual operating costs of high-

² <https://moovair.ca/why-moovair/>

efficiency electric cold climate air source heat pumps (ccASHP) within four Ontario climates (Windsor, Toronto, Ottawa, and Thunder Bay) at three peak winter design loads (2.5 tons, 4 tons, and 5 tons). The Guidehouse report can be found at Attachment 1. The spreadsheet model referenced on page 1 of the Guidehouse report is provided as a live Excel document at Attachment 2.

It is important to note that the scope of the Guidehouse report consisted of an assessment of annual operating costs and did not include an assessment of upfront capital costs which are required to conduct a customer lifetime cost-effectiveness analysis of converting a home to a high-efficiency electric ccASHP configuration.

Assessing the upfront costs required to convert a home to a high-efficiency electric ccASHP configuration requires consideration of several factors, which results in a more complex analysis than assessing the upfront costs required to convert a home to a natural gas furnace configuration. For example, in addition to the cost of the heat pump itself, a home could also require electrical panel upgrades, exterior service upgrades from the electric utility, internal wiring upgrades, duct work improvements, etc. Enbridge Gas understands that there is a wide range of potential upfront costs depending on the existing configuration of the home itself. For this reason, the Company is not able to provide an average upfront cost, which would be required to develop an average customer lifetime cost-effectiveness analysis. Any attempt to do so would result in an oversimplification of the conversion costs and would not necessarily be representative of the actual conversion costs for specific homes in the Project area.

In May 2023, the Company requested low-end and high-end upfront cost estimates from HVAC contractors for conversions to both high-efficiency electric ccASHP configurations and natural gas furnace configurations. The request for information from Enbridge Gas to HVAC contractors can be found at Attachment 3 to this response. Five HVAC contractors responded to Enbridge Gas's request, each providing low-end and high-end upfront cost estimates. A summary of the responses from HVAC contractors can be found at Attachment 4. The overall low-end and high-end results based on the information from HVAC contractors are provided in Table 1. Enbridge Gas cautions that the results are meant to be illustrative and that more refined research would be required to establish robust estimates/assumptions.

Table 1
Upfront Costs

	Low-end Upfront Cost	High-end Upfront Cost
Conversion to Natural Gas Furnace Configuration	\$3,890	\$11,500
	Low-end Upfront Cost	High-end Upfront Cost
Conversion to High-Efficiency Electric ccASHP Configuration	\$11,400	\$50,500

Subject to meeting program eligibility requirements certain homeowners could be eligible for up to \$5,000 in grants from the federal government for qualifying electric air source heat pumps. See Table 2 for the inclusion of the grant to the low-end upfront cost scenario for the conversion to high-efficiency electric ccASHPs. Since not all applications are necessarily eligible for the grant, the high-end upfront cost scenario does not include the grant amount.³

Table 2
Upfront Costs, including \$5,000 Federal Grant

	Low-end Upfront Cost (a)	High-end Upfront Cost (b)
Conversion to Natural Gas Furnace Configuration	\$3,890	\$11,500
	Low-end Upfront Cost (c)	High-end Upfront Cost (d)
Conversion to High-Efficiency Electric ccASHP Configuration	\$6,400	\$50,500

It should be noted that there is not necessarily a correlation between the upfront costs for conversions to high-efficiency electric ccASHP configurations and conversions to natural gas furnace configurations. More specifically, a home may require upfront costs to convert to a natural gas furnace configuration that is on the low-end of costs for that configuration, whereas that same home may require upfront costs to convert to a high-efficiency electric ccASHP that is on the high-end of costs for that configuration – and vice versa. For example, a home may not require any additional costs beyond the natural gas furnace itself to convert to a natural gas furnace configuration, whereas that same home may require additional costs beyond the electric heat pump to convert to a high-efficiency electric ccASHP (such as electrical panel upgrades, exterior service upgrades from the electric utility, internal wiring upgrades, duct work improvements, etc.). For this reason, a more accurate approach to assessing a home’s potential range of upfront conversion costs would

³ The high-end up-front cost scenario reflects the high-end upfront cost that consumers may potentially incur to convert their home to a high-efficiency electric ccASHP configuration. As such, if not all electric heat pump applications are eligible for the grant, it would not be appropriate to include the grant in the potential high-end upfront cost scenario.

be to compare the low-end and high-end upfront costs of each configuration to each other (rather than comparing the low-end upfront cost of each configuration to each other, and the high-end upfront cost of each configuration to each other).

Using the figures in Table 2 above, Table 3 below provides the upfront cost comparison between (i) the low-end upfront cost of conversion to a high-efficiency electric ccASHP configuration compared to the high-end upfront cost of conversion to a natural gas furnace configuration, and (ii) the high-end upfront cost of conversion to a high-efficiency electric ccASHP configuration compared to the low-end upfront cost of conversion to a natural gas furnace configuration.

Table 3
Upfront Cost Comparison

	Low-end Upfront Cost ($e = c - b$)	High-end Upfront Cost ($f = d - a$)
Conversion to High-Efficiency Electric ccASHP Configuration		
vs.	-\$5,100	\$46,610
Conversion to Natural Gas Furnace Configuration		

A negative figure in Table 3 above means the upfront cost for conversion to a high-efficiency electric ccASHP configuration is lower than the upfront cost for conversion to a natural gas furnace configuration. A positive figure means the upfront cost for conversion to a high-efficiency electric ccASHP configuration is higher than the upfront cost for conversion to a natural gas furnace configuration.

To provide ranges for the customer lifetime cost-effectiveness of converting a home to a high-efficiency electric ccASHP configuration compared to a natural gas furnace configuration, Enbridge Gas combined the upfront cost information in Table 3 with the annual operational cost information from the Guidehouse study. The following 12 scenarios were assessed.

- Toronto, low-end upfront cost, 2.5 ton
- Toronto, low-end upfront cost, 4 ton
- Toronto, low-end upfront cost, 5 ton

- Toronto, high-end upfront cost, 2.5 ton
- Toronto, high-end upfront cost, 4 ton
- Toronto, high-end upfront cost, 5 ton

- Ottawa, low-end upfront cost, 2.5 ton
- Ottawa, low-end upfront cost, 4 ton
- Ottawa, low-end upfront cost, 5 ton

- Ottawa, high-end upfront cost, 2.5 ton
- Ottawa, high-end upfront cost, 4 ton
- Ottawa, high-end upfront cost, 5 ton

Please see Attachment 5 for details regarding the natural gas costs (including carbon costs) used in the assessment, provided as an Excel document with formulae intact. The natural gas costs used in the assessment are based on April 2023 QRAM for Rate 1 including SES. The carbon costs reflect the Federal carbon charge escalating to \$170/tCO_{2e} by 2030.⁴ The electricity costs used in the assessment are consistent with the approach described in response to Exhibit I.ED-1 parts c) – d) (i.e., 0.1133 \$/kWh).

It is important to note that the energy costs used in the analysis are a snapshot in time and thus may not be reflective of consumer expectations for long-term energy prices. For example, natural gas commodity prices experienced a significant short-term increase in 2022 due to various factors including geo-political conflicts and COVID-19 pandemic-related economic impacts. Such factors impacting the volatility and increase in natural gas prices observed in 2022 are considered to be unique and commodity prices are already stabilizing and declining relative to 2022.

See Table 4 for the customer lifetime cost-effectiveness of high-efficiency electric ccASHP configurations when compared to natural gas furnace configurations, based on the information described above. Please see Attachment 6 for the calculations underlying the figures in Table 4, provided as an Excel document with formulae intact.⁵

Table 4
Customer Lifetime Cost-Effectiveness of High-Efficiency Electric ccASHP Configurations when compared to Natural Gas Furnace Configurations⁶

Scenario	Customer Lifetime Cost-Effectiveness (Low-End Upfront Cost)	Customer Lifetime Cost-Effectiveness (High-End Upfront Cost)
Toronto, 2.5 ton	\$12,087	-\$39,623
Toronto, 4 ton	\$16,269	-\$35,441
Toronto, 5 ton	\$19,059	-\$32,651
Ottawa, 2.5 ton	\$12,674	-\$39,036
Ottawa, 4 ton	\$17,204	-\$34,506
Ottawa, 5 ton	\$20,219	-\$31,491

A positive figure in Table 4 above means the customer lifetime cost-effectiveness for conversion to a high-efficiency electric ccASHP configuration is more favourable when compared to conversion to a natural gas furnace configuration. A negative

⁴ <https://www.enbridgegas.com/en/residential/my-account/rates/federal-carbon-charge>

⁵ Annual operational cost savings figures are not formulaic as they are outputs from the spreadsheet model.

⁶ A 4% discount rate was used for the lifetime analysis.

figure means the customer lifetime cost-effectiveness for conversion to a high-efficiency electric ccASHP configuration is less favourable when compared to conversion to a natural gas furnace configuration.

Based on the information in Table 4 above, conversion to a high-efficiency electric ccASHP configuration could be more cost-effective for space heating for some homeowners when compared to a conversion to a natural gas furnace configuration, whereas for other homeowners the natural gas solution would be more cost-effective.

Please note that the analysis does not consider water heating components which, if customers chose all-electric configurations, would require additional considerations (i.e., a comparison of upfront and operational costs for electric water heating solutions compared to natural gas water heating solutions).

Additionally, Enbridge Gas does not have information regarding high-efficiency electric ccASHPs with respect to summer space cooling. It should be noted that the inclusion of electric summer cooling to the cost-effectiveness analysis is complex as it would not only require a technical assessment of the performance efficiencies of electric summer cooling equipment types but also an assessment of the impact that electric heat pumps have on consumer energy bills for those consumers who would not opt for traditional electric summer cooling equipment with a natural gas furnace. Said differently, a home with a high-efficiency electric ccASHP configuration would have higher summer electricity cooling costs (i.e., higher energy costs) when compared to a home with a natural gas furnace configuration without air conditioning.

Notwithstanding cost-effectiveness analyses related to any energy solution (natural gas, electric heat pumps, or otherwise) Enbridge Gas submits that it is critical to assess the energy solution interests of actual residents and business-owners within the Project area. The Company cautions against relying on theoretical cost-effectiveness analyses as a solitary basis for determining consumer energy interests. Rather, the interests expressed by actual consumers within a particular Project area/community are directly reflective of those consumers' preferences and energy decisions as they inherently encompass all relevant factors, including financial and non-financial considerations.

- b)
- i. Enbridge Gas respectfully declines to provide the requested adjustments to the Company's analysis. There is no basis for the assumption that natural gas prices will increase annually by 2%. Natural gas prices vary based on several factors including market factors and do not typically escalate annually by a factor of 2%.
 - ii. Enbridge Gas respectfully declines to provide the requested adjustments to the Company's analysis. There is no basis for the assumption that carbon prices will

escalate annually by \$15/tonne from 2030-2035. Enbridge Gas is not aware of any announced policies indicating such. Enbridge Gas understands the source referenced by ED in the interrogatory to be part of a scenario analysis and not an expectation or forecast of carbon prices.

- iii. Regarding installed costs, Enbridge Gas could not identify installed cost figures within the source referenced by ED in the interrogatory, and as such cannot provide the requested adjustment to the Company's analysis. Regardless, Enbridge Gas cautions against making selective adjustments to the analyses based on information from a single manufacturer/distributor. Enbridge Gas submits that the upfront cost assumptions used in its analysis is more robust, as it relies on information from several HVAC contractors rather than a single manufacturer/distributor.

Regarding performance efficiency assumptions, Enbridge Gas respectfully declines to provide the requested adjustments to the Company's analysis, as it would be based on information from a single manufacturer/distributor. Enbridge Gas cautions against making selective adjustments to the analyses based on information from a single manufacturer/distributor. Enbridge Gas submits that the performance efficiency assumptions used in its analysis is more robust, as it relies on information from a variety of electric heat pump products rather than from a single manufacturer/distributor. To review the list of electric heat pump products incorporated in Enbridge Gas's analysis, please see the "All HP's NEEP Database" tab in Attachment 2.

- iv. As per the response to part a) above, Enbridge Gas does not have information regarding high-efficiency electric ccASHPs with respect to summer cooling, and the Company's analysis does not include summer cooling considerations. As such, Enbridge Gas is not able to include the requested summer cooling efficiency adjustments to the Company's analysis.
- v. As per the response to part a) above, the Enbridge Gas analysis does not consider water heating components. As such, Enbridge Gas is not able to include the requested water heating efficiency adjustments to the Company's analysis.
- vi. As per the response to part a) above, Enbridge Gas does not have information regarding high-efficiency electric ccASHPs with respect to summer cooling, and the Company's analysis does not include summer cooling considerations. As such, Enbridge Gas is not able to include the requested summer cooling efficiency adjustments to the Company's analysis.
- vii. Enbridge Gas respectfully declines to provide the requested adjustments to the Company's analysis. As per the response to part a) above, Enbridge Gas's analysis does not rely on average upfront cost assumptions when comparing the cost to convert a home to a high-efficiency electric ccASHP configuration versus a natural gas furnace configuration. Enbridge Gas understands that there is a wide

range of potential upfront costs depending on the existing configuration of the home itself. For this reason, the Company is not able to provide an average upfront cost, and adding an average cost as per ED's interrogatory request would be incongruent with the analysis.

c) - d)

Please see the responses to part b) above.

e) The website referenced by ED in the interrogatory claims that the Moovair is developed by the Master Group and that the Master Group is the largest independent distributor of HVAC-R products in the country, however Enbridge Gas has not independently verified the information.

f) The average-use figures assumed in Enbridge Gas's revenue forecast correspond to space heating and other uses, such as water heating.

g) Confirmed.

h) Confirmed.

i) The HSPF ratings for region 4 can be approximately converted to HSPF ratings for region 5 by dividing the region 4 HSPF by 1.15.

j)

i.) Please see Exhibit B-1-1, Table 2.

ii.) Please see the response at Exhibit I.ED-23. part a).

iii.-iv.) Please see the response at Exhibit I.ED-23. part b).

v.-vi.) Please see the response and Attachment 1 at Exhibit I.ED-20.



To: Enbridge Gas Inc.
From: Guidehouse
Date: May 19th, 2023

Re: Comparison of heat pump configurations - All-electric (including air source heat pump/electric resistance supplemental) and Hybrid (ASHP/gas furnace backup) performance for space heating in Ontario homes

Introduction

This memo has been prepared by Guidehouse to examine the performance and operational costs of all-electric and hybrid air source pump systems for typical Ontario homes. The presented costs reflect anticipated annual heating utility costs for an average homeowner, which represent the cost of operating the heating equipment only (note actual utility bills may range due to a variety of site-specific factors). Capital costs including equipment first costs, infrastructure upgrade costs within the home, and installation costs are out of scope and not considered in this analysis. The analysis does not represent an all-in lifecycle cost analysis. Given that installation costs are highly dependent on initial conditions and highly variable, the average installation cost is not useful from a policy perspective, as it is not indicative of any actual consumer experience. Four different heat pump configurations have been assessed with three different system sizes across four locations in Ontario. The analysis will assist Enbridge in evaluating the performance trade-offs between all-electric heat pump systems and hybrid heat pump systems backed up with natural gas.

Approach

Heat pump heating performance was calculated using a custom-built spreadsheet tool developed for this analysis. The spreadsheet tool, titled "Enbridge Heat Pump Model" herein referred to as "the spreadsheet model", has been delivered with this memo and contains additional details regarding the specific calculation methodologies used for this analysis.

Four different heat pump configurations were considered for this analysis:

- Hybrid Heating Heat Pump Coil with Existing Furnace
- Hybrid Heating Heat Pump with New Furnace
- Cold Climate Heat Pump
- Non-Cold Climate Heat Pump

System performance criteria was developed to fully characterize each of the systems including the development of capacity and efficiency performance curves, heat pump efficiencies, and supplemental heating efficiencies. Whole building energy modeling with EnergyPlus was used to model single family residential prototype models and generate hourly heating profiles for four locations across Ontario: Ottawa, Toronto, Windsor, and Thunder Bay. The system performance criteria in conjunction with the heating profiles from the energy model are used within the spreadsheet model to calculate hourly consumption of natural gas and electricity for each of the system configurations. Performance is calculated for each system type and location at three peak winter design loads: 30,000 Btu/hr (2.5 tons), 48,000 Btu/hr (4 tons), and 60,000 Btu/hr.

A baseline scenario with new 95% annual fuel utilization (AFUE) furnace serves as the comparator the heat pump systems are measured against. The following performance metrics are reported:

- Electricity/natural gas consumption
- Peak hourly consumption
- Energy cost/savings
- Greenhouse gas emissions

System Characterization

Heat pump heating performance curves were developed for four heat pump configurations: hybrid heating heat pump coil with existing furnace, hybrid heating heat pump with new furnace, cold climate heat pump with electric resistance backup heating, and a traditional non-cold climate heat pump with electric resistance supplemental heating¹. To define these system configurations and develop the performance curves needed to assess heating system performance, a large database of heat pump equipment and performance values (Northeast Energy Efficiency Partnerships - NEEP 2019 database, which contains more than 5,000 heat pump systems) was used to calculate the average market performance for each of the system configurations. The heat pump criteria used to define each scenario and stratify the NEEP database entries are as follows:

Hybrid Heating Heat Pump Coil with Existing Furnace: AHRI Type HRCU-A-C with centrally ducted configuration. Heat pump maintenance capacity (max 5°F/-15°C capacity divided by rated 47°F/8°C capacity) less than 80% - non cold climate heat pump.

Hybrid Heating Heat Pump with New Furnace: AHRI Type HRCU-A-CB with integrated furnace and centrally ducted configuration. Heat pump maintenance capacity (max 5°F/-15°C capacity divided by rated 47°F/8°C capacity) less than 80% - non cold climate heat pump.

Cold Climate Heat Pump: AHRI Type HRCU-A-CB and HMSV-A-CB AHRI type with centrally ducted configuration and maintenance capacity (max 5°F/-15°C capacity divided by rated 47°F/8°C capacity) greater than 80% - cold climate heat pump.

Non-Cold Climate Heat Pump: AHRI Type HRCU-A-CB and HMSV-A-CB AHRI type with centrally ducted configuration and maintenance capacity (max 5°F/-15°C capacity divided by rated 47°F/8°C capacity) less than 80%.

The supplemental heating system types considered are as follows:

Hybrid Heating Heat Pump Coil with Existing Furnace: Natural gas 90% AFUE.

Hybrid Heating Heat Pump with New Furnace: Natural gas 95% AFUE

Cold Climate Heat Pump: Electrical resistance

Non-Cold Climate Heat Pump: Electrical resistance

Note the hybrid heat pump performance is not the same between the two configurations. Table 1 includes the different performance metrics used for each system configuration, which are based on the market performance from the NEEP database. The coil only heat pumps that are installed with existing furnaces and new hybrid systems where the heat pump is sold integrated with the furnace have different average performances, which are reflected in this analysis.

Performance curves were generated for capacities and efficiencies at maximum and rated conditions (performance reported at 8°C, -8°C, and -15°C) for each of the four heat pump configurations, see the "Curve Data" tab in the spreadsheet model for details. Capacity and efficiency curves in combination with additional input criteria are used to extrapolate system performance metrics at ambient temperatures ranging from 16°C to -34°C (the lowest temperature experienced across the four climate locations). Additional input criteria include sizing ratios, heating load profile, heat pump efficiency, furnace efficiency, capacity, airflow rates, and fan power. In addition to capacity and efficiency curves, a defrost performance curve is also used to account for negative performance impacts attributed to defrost mode during operation below 4°C². The heat pump efficiencies and sizing ratios defined in Table 1 were derived from the NEEP database with the remaining fields reflecting standard performance values.

¹ Supplemental heating refers to heating that occurs in tandem with heat pump heating whereas backup heating refers to a heating source that meets 100% of the heating load without the heat pump running.

² Winkler, Jon. Laboratory Test Report for Fujitsu 12RLS and Mitsubishi FE12NA Mini-Split Heat Pumps.

Table 1: Heat Pump Input Criteria

System Configuration	Heat Pump COP at Rated Capacity at 47°F/8 °C ⁽²⁾	Heat Pump COP at Max Capacity at 47°F/8°C ⁽²⁾	Heat Pump Max Capacity Sizing Ratio ¹	Supplemental Efficiency	Fan Power (W/Ton)	Lockout Temp (C) ⁽³⁾
Hybrid Heating Heat Pump Coil with Existing Furnace	3.4	3.1	1.08	90% AFUE	90	-18
Hybrid Heating Heat Pump Coil with New Furnace	4.0	3.8	1.08	95% AFUE	90	-18
Cold Climate Heat Pump	4.3	4.0	1.17	1 COP	90	-26
Non-Cold Climate Heat Pump	4.0	3.7	1.11	1 COP	90	-18

(1) Modern heat pumps are often variable capacity equipped with variable speed compressors. The rating performance values reflect the performance at rated conditions, but variable speed equipment is capable of modulating capacity beyond the rated values. The “Max” values in Table 1 are performance values achieved when the variable speed compressor is running at maximum speed.

(2) The efficiency values shown in Table 1 are consistent for all load sizes for each of the configurations

(3) The minimum temperature the heat pump can operate before the compressor shuts off

Heat pump controls were modeled based on smart controllers that automatically enable supplemental heating based on available capacity. A dynamic crossover strategy optimized for lowest operational cost is used to produce the results in this analysis where the supplemental heating is engaged when the heat pump heating cannot satisfy the heating load. If smart controllers were not used the temperature at which the hybrid heating systems switch from heat pump heating to furnace heating would be set to a fixed temperature by the HVAC contractor during installation. The most cost-effective switchover temperature will vary depending on utility rates, equipment performance, and load conditions and can vary home by home. HVAC contractors typically don’t have access to the information required to determine the optimal switchover temperature and often use the same conservative (higher) switchover temperature for all homes. This results in longer furnace runtimes and minimizes the potential benefit of the heat pumps.

System Sizing

The results of this analysis include the performance of each heat pump configuration run at three different heating loads, 30,000 Btu/hr (2.5 tons), 48,000 Btu/hr (4 tons), and 60,000 Btu/hr (5 tons). These load sizes reflect low, medium, and large load conditions characterizing the full residential housing stock from small townhouses to large single family detached homes. The Canmet Air-Source Heat Pump Sizing and Selection Guide was used to determine the heating capacity for each heat pump configuration at the different load sizes – 2.5, 4, and 5 tons³. Different sizing guideline options were used for the different system configurations based on the supplemental/backup heating sources and heat pump prioritization.

Canmet guidelines option 4B, which utilizes a balanced heating and cooling approach, was used for the hybrid heating configurations resulting in a nominal heat pump heating capacity estimated at half a ton less than the design load. This analysis uses a simplified approach of a consistent half ton capacity reduction for all the system load sizes rather than changing the capacity reduction relative to load. Heat pump operation is prioritized during mild to moderate heating conditions while natural gas is used as the primary heating source during the coldest periods.

The non-cold climate heat pump configuration utilized sizing option 4C, which has an emphasis on heating. This sizing strategy resulted in a nominal heat pump capacity equal to the heating load. Electric resistance heating will supplement the heat pump with additional heating capacity during periods where the heating load cannot be met with heat pump heating alone.

For the cold climate heat pump configuration option 4D was used which sizes heating capacity based on the heating load at design conditions. This resulted in a nominal heat pump capacity half a ton larger than the heating load to account for the reduced capacity at colder temperatures ensuring nearly the entire heating load is met with heat pump and minimal electric resistance supplemental heating is used.

³ <https://natural-resources.canada.ca/maps-tools-and-publications/tools/modelling-tools/toolkit-for-air-source-heat-pump-sizing-and-selection/23558>

Load Profiles

Whole building energy modeling was performed using the EnergyPlus simulation engine with US Department of Energy single family residential prototype energy models to generate hourly heating load profiles for each of the following weather locations: Toronto, Ottawa, Windsor, and Thunder Bay. These locations capture the range of heating load profiles found throughout Ontario. In order of lowest heating load to highest heating load the four weather locations are organized as follows: Windsor, Toronto, Ottawa, and Thunder Bay. See the “Weather Profiles” tab in the spreadsheet model for heating load profile details. TMYx weather files were used to simulate the energy models for each of the locations. TMYx weather files include hourly data and are based on recent 15-year weather data, which more accurately reflects current and changing weather profiles than traditional TMY weather files made up of 30 plus years of historic weather data.

The heating load profiles are used with the heat pump performance curves to calculate the hourly heating load, available heat pump heating capacity, heat pump heating efficiency, and heat pump supplemental heating coil run times. The peak demand is calculated as the maximum single hour consumption and the annual consumption is the combined total of all the hours of operation.

Utility Costs

Utility costs are based on Enbridge natural gas rates (EGD Rate 1) and Toronto time of use (TOU) electricity rates (as of May 2023), which were used to calculate the operational costs for each system configuration.^{4,5} No assumptions have been made about forward price curves and utility rates for either natural gas or electricity, including increases in carbon costs. Note, utility costs can readily be updated in the “Utility Data” tab in the spreadsheet model to assess the impact of rate changes. While utility costs vary by region, the relative cost difference between electricity and natural gas is similar and regional differences in utility costs have a minimal impact on overall results.

Table 2: Utility Pricing

Electricity			
Electricity TOU Price Periods	Winter (Nov 1 Apr 30)	Summer (May 1 Oct 31)	Prices (c/kWh)
Off-Peak	Weekdays 7pm-7am, Weekends All Day	Weekdays 7pm-7am, Weekends All Day	10.0
Mid-Peak	Weekdays 11am-5pm	Weekdays 7am-11am and 5pm - 7am	12.8
On-Peak	Weekdays 7am - 11am and 5pm-7pm	Weekdays 11am-5pm	17.8
Natural Gas Rate (\$/m3)			
0.42			

Carbon Emissions

Marginal carbon emission rates for electricity generation are based on the Power Advisory Report “Marginal Greenhouse Gas Emission Factors for Ontario Electricity Generation and Consumption”⁶ and natural gas carbon emission rates are based on the carbon content of the fuel, which is equivalent to 1.93 kg of CO₂e per cubic meter of natural gas.⁷

⁴ https://www.enbridgegas.com/residential/my-account/rates?qad=1&gclid=CjwKCAjwge2iBhBBEiwAfXDDBR8ZtTx-o5AMck7eqhNsGF09TgHkGhWpLhwqPabwVtySQ8WVM95_NHhoCvdsQAvD_BwE

⁵ <https://www.torontohydro.com/for-home/rates>

⁶ http://consortia.myescenter.com/CHP/Power_Advisory_Report_on_Marginal_Emission_Factors_for_Ontario_Electricity_Generation_Oct2020.pdf

⁷ Environment and Climate Change Canada. (2022, April 14). 2022 National Inventory Report 1990-2020: Greenhouse Gas Sources and Sinks in Canada. Part 2. Table A6.1-1 and Table A6.1-3. <https://unfccc.int/documents/461919>

Results

Table 3 through Table 18 show performance summary results including total energy consumption, peak demand, energy cost, and carbon emissions for all four scenarios at each location and for each heating load.⁸

Key Findings

- The cold climate heat pump configuration emits the least CO₂ emissions of all system configurations regardless of location or load size.
- The cold climate heat pump has the best cost performance in Windsor (most mild climate) while the hybrid heating heat pump with new furnace is the cheapest to operate in Toronto, Ottawa, and Thunder Bay.
- Increase in electric peak demand is lower for hybrid heating systems with furnace backup than all electric system configurations with electric resistance supplemental heating.

Natural gas is approximately three times cheaper than electricity on a cost per unit energy basis, however the high efficiency of heat pump systems overcome the fuel pricing disparity resulting in net operational cost saving when using a heat pump in a moderate climate (COP > 3) compared to a furnace. While heat pump heating outperforms a furnace when operating at nameplate efficiencies the physical limitations of heat pump heating yields reduced efficiency and capacity at lower ambient temperatures ultimately requiring a supplemental heating source to satisfy the heating load. Note in Tables 7-18 the cold climate annual COP is often lower than the non-cold climate heat pump option because it spends more time running at lower temperatures with a lower efficiency. In contrast furnace efficiency is not impacted by ambient air temperature and operates at a consistent efficiency.

Between electric resistance (COP of 1) and natural gas furnace backup heating options, the furnace is more cost effective than electric resistance heating. Regions that are subject to extreme cold will experience lower average heat pump efficiencies and rely increasingly on supplemental heating sources compared to systems operating in more moderate climates. This means the system configurations that maximize heat pump operation and minimize electric resistance supplemental heating will have the best cost performance, which is supported in the modeling outputs shown below. The cold climate heat pump is the most cost-effective all electric option and the most cost effective overall for Windsor, the mildest simulated location, where no supplemental electric resistance heating is used. In Windsor both all-electric heat pump configurations can maintain an annual COP greater than 3 and operate at a lower cost than the hybrid configurations. The hybrid heat pump with a high efficiency furnace is the most cost-effective option for all other simulated weather locations - Toronto, Ottawa, and Thunder Bay, which experience colder temperatures and have a higher heating load requiring more supplemental heating resulting in lower average heat pump performance.

Additional Considerations

In addition to thermal performance and operational cost there are several practical issues that must be considered when electrifying existing fossil fuel HVAC systems. Additional infrastructure updates may also be required within the home, and the costs associated with addressing any of these issues can vary widely based on existing conditions and should be considered for all electrification endeavors.

⁸ Costs shown in results tables reflect consumption-based costs and do not include monthly fixed costs. It is assumed that gas and electric service will remain in use at all sites for all system configurations.

Homeowner Considerations

- **Cost & Equipment Life:** First costs for a whole home heat pump system can range from CAD \$10,000-\$20,000⁹. and are typically two to four times as expensive as a conventional furnace. The expected equipment lifetime for heat pumps (15 years) is also shorter than traditional furnaces (20 years).¹⁰
- **Electric service:** The electric service to the home must be able to accommodate the additional load of an all-electric heating system. Many existing homes have 60–100 amp service, which will not be able to support electric heating, especially if other end-uses such as domestic hot water or cooking ranges are also being converted to electric. Upgrading service capacity to 200 amps will typically cost CAD \$3,000-\$5,000 and depending on the home vintage and existing conditions additional wiring upgrades beyond the electric panel may also be necessary.⁹
- **Existing HVAC infrastructure:** It is important to consider the distribution system effects when installing a heat pump with existing ductwork. The duct size, static pressure, duct leakage, duct location (conditioned vs unconditioned) should all be considered during system selection. For example, fossil fuel furnaces traditionally have a higher temperature rise than heat pumps, thus requiring smaller ductwork with less airflow than needed to run a heat pump. If the duct conditions are not properly accounted for the heat pump could have inadequate airflow resulting in thermal comfort and/or maintenance issues.

Utility Considerations

- **Peak demand period:** Typically, electric utilities experience peak demand during summer months driven by HVAC cooling operation. Electric heat pumps in cold climates often have a higher heating capacity than cooling capacity and subsequently have a higher peak demand when operating in heating mode compared to cooling. This can shift the peak demand period from the summer to the winter when fossil fuel heating equipment is replaced with electric heat pumps. Conversely, the installation of new high performance heat pump equipment will likely reduce summer peak demand due to increased equipment efficiency compared to existing cooling equipment.

⁹ <https://www.electricity.ca/knowledge-centre/journal/we-are-so-close-to-affording-zero-carbon-electric-home-heating/>

¹⁰<https://remdb.nrel.gov/about.php>

Table 3 shows the annual peak hourly electric demand (kW) for each system configuration.

Table 3: Max Annual Electric Peak kW (Compressor and Supplemental Heating)

	Max Operational kW (Compressor and Auxiliary)				
	Scenario	Toronto	Ottawa	Windsor	Thunder Bay
New Furnace (Fan Only)	Small 30,000 Btuh (2.5 Tons)	0.2	0.2	0.2	0.2
	Medium 48,000 Btuh (4 Tons)	0.4	0.4	0.4	0.4
	Large 60,000 Btuh (5 Tons)	0.4	0.4	0.4	0.4
Hybrid Heating Heat Pump Coil with Existing Furnace	Small 30,000 Btuh (2.5 Tons)	2.2	2.2	2.2	2.1
	Medium 48,000 Btuh (4 Tons)	3.8	3.6	4.0	3.8
	Large 60,000 Btuh (5 Tons)	4.7	4.6	5.0	4.1
Hybrid Heating Heat Pump Coil with New Furnace	Small 30,000 Btuh (2.5 Tons)	2.4	2.4	2.4	1.6
	Medium 48,000 Btuh (4 Tons)	4.0	3.2	4.2	4.0
	Large 60,000 Btuh (5 Tons)	4.1	4.0	5.2	3.3
Cold Climate Heat Pump	Small 30,000 Btuh (2.5 Tons)	4.4	8.6	3.7	8.6
	Medium 48,000 Btuh (4 Tons)	7.2	13.7	6.0	7.2
	Large 60,000 Btuh (5 Tons)	9.1	17.1	7.5	17.1
Non Cold Climate Heat Pump	Small 30,000 Btuh (2.5 Tons)	8.0	8.6	5.1	8.6
	Medium 48,000 Btuh (4 Tons)	12.9	13.7	8.2	12.9
	Large 60,000 Btuh (5 Tons)	16.1	17.1	10.2	17.1

Table 4 shows the peak hourly electric demand during the utility peak period defined as 7am – 9am Monday through Friday. Note the values in Table 4 are slightly smaller than Table 3 as the annual system peak demand does not always fall within the utility peak demand period.

Table 4: Max Peak Period kW (Compressor and Supplemental Heating)




	Max Peak Period kW (Compressor and Auxiliary)				
	Scenario	Toronto	Ottawa	Windsor	Thunder Bay
New Furnace (Fan Only)	Small 30,000 Btuh (2.5 Tons)	0.2	0.2	0.2	0.2
	Medium 48,000 Btuh (4 Tons)	0.4	0.4	0.4	0.4
	Large 60,000 Btuh (5 Tons)	0.4	0.4	0.4	0.4
Hybrid Heating Heat Pump Coil with Existing Furnace	Small 30,000 Btuh (2.5 Tons)	2.1	2.1	2.2	1.8
	Medium 48,000 Btuh (4 Tons)	3.8	3.6	3.9	3.8
	Large 60,000 Btuh (5 Tons)	4.7	4.5	4.9	3.7
Hybrid Heating Heat Pump Coil with New Furnace	Small 30,000 Btuh (2.5 Tons)	2.3	1.8	2.3	1.5
	Medium 48,000 Btuh (4 Tons)	3.0	2.9	3.1	3.0
	Large 60,000 Btuh (5 Tons)	3.7	3.6	5.2	2.9
Cold Climate Heat Pump	Small 30,000 Btuh (2.5 Tons)	3.9	8.5	2.5	7.6
	Medium 48,000 Btuh (4 Tons)	6.2	13.5	4.0	6.2
	Large 60,000 Btuh (5 Tons)	7.7	16.9	5.0	15.3
Non Cold Climate Heat Pump	Small 30,000 Btuh (2.5 Tons)	6.2	8.5	3.1	7.6
	Medium 48,000 Btuh (4 Tons)	9.9	13.5	4.9	9.9
	Large 60,000 Btuh (5 Tons)	12.4	16.9	6.1	15.3



Table 5 and Table 6 include performance summaries for annual cost and carbon emissions. Tables 7 through 18 include the summary outputs for each system configuration and load size at each weather location.

Table 5: Total Cost Savings by System Configuration and Location




Scenario		Annual Heating Operational Cost (\$)				Annual Heating Cost Savings (\$)			
		Toronto	Ottawa	Windsor	Thunder Bay	Toronto	Ottawa	Windsor	Thunder Bay
Baseline: Code 95% Furnace	Small (2.5 Tons)	\$484	\$565	\$483	\$623				
	Medium (4 Tons)	\$775	\$904	\$772	\$997				
	Large (5 Tons)	\$969	\$1,130	\$965	\$1,246				
Hybrid Heating Heat Pump Coil with Existing Furnace	Small (2.5 Tons)	\$396	\$484	\$379	\$549	\$88	\$81	\$104	\$74
	Medium (4 Tons)	\$632	\$774	\$602	\$878	\$143	\$130	\$170	\$118
	Large (5 Tons)	\$790	\$967	\$751	\$1,098	\$179	\$163	\$214	\$148
Hybrid Heating Heat Pump Coil with New Furnace	Small (2.5 Tons)	\$361	\$445	\$343	\$511	\$124	\$120	\$140	\$112
	Medium (4 Tons)	\$577	\$712	\$548	\$818	\$198	\$192	\$225	\$178
	Large (5 Tons)	\$721	\$890	\$685	\$1,022	\$248	\$240	\$281	\$224
Cold Climate Heat Pump	Small (2.5 Tons)	\$371	\$486	\$335	\$607	\$114	\$79	\$148	\$16
	Medium (4 Tons)	\$594	\$779	\$535	\$973	\$181	\$125	\$237	\$24
	Large (5 Tons)	\$743	\$974	\$669	\$1,217	\$226	\$156	\$296	\$29
Non Cold Climate Heat Pump	Small (2.5 Tons)	\$386	\$562	\$339	\$745	\$98	\$3	\$143	-\$122
	Medium (4 Tons)	\$618	\$900	\$543	\$1,192	\$157	\$4	\$229	-\$195
	Large (5 Tons)	\$773	\$1,125	\$679	\$1,490	\$196	\$5	\$287	-\$244

 Greatest Savings for 2.5 Ton Load
 Greatest Savings for 4 Ton Load
 Greatest Savings for 5 Ton Load

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Table 6: Total Emissions and Total Emissions Savings by System Configuration and Location

Scenario	Annual Heating Emissions (kgCO ₂ e)				Annual Heating Emissions Savings (kgCO ₂ e)				
	Toronto	Ottawa	Windsor	Thunder Bay	Toronto	Ottawa	Windsor	Thunder Bay	
Baseline: Code 95% Furnace	Small (2.5 Tons)	2,033	2,370	2,026	2,613				
	Medium (4 Tons)	3,253	3,792	3,242	4,181				
	Large (5 Tons)	4,066	4,739	4,052	5,226				
Hybrid Heating Heat Pump Coil with Existing Furnace	Small (2.5 Tons)	1,253	1,646	1,138	2,022	780	724	888	590
	Medium (4 Tons)	1,990	2,628	1,768	3,235	1263	1164	1474	945
	Large (5 Tons)	2,486	3,284	2,197	4,044	1580	1456	1856	1182
Hybrid Heating Heat Pump Coil with New Furnace	Small (2.5 Tons)	1,140	1,519	999	1,889	893	851	1028	723
	Medium (4 Tons)	1,823	2,429	1,591	3,023	1430	1362	1651	1158
	Large (5 Tons)	2,279	3,037	1,987	3,779	1788	1703	2065	1447
Cold Climate Heat Pump	Small (2.5 Tons)	1,018	1,321	918	1,652	1016	1049	1108	961
	Medium (4 Tons)	1,630	2,117	1,469	2,649	1623	1674	1772	1531
	Large (5 Tons)	2,038	2,649	1,837	3,314	2028	2090	2216	1912
Non Cold Climate Heat Pump	Small (2.5 Tons)	1,060	1,528	932	2,029	973	842	1095	584
	Medium (4 Tons)	1,697	2,444	1,491	3,246	1557	1347	1751	935
	Large (5 Tons)	2,121	3,055	1,863	4,057	1946	1684	2189	1168

-  Greatest Savings for 2.5 Ton Load
-  Greatest Savings for 4 Ton Load
-  Greatest Savings for 5 Ton Load

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Table 7: Results Table for Toronto with a 2.5 Ton Heating Load

Scenario	System	Heating Hours	Annual Heating Load (Btu)	Percent of Total Load	Total Annual Cost \$	Annual Consumption (kWh or m3)	Annual Efficiency (COP or AFUE)	Operational Peak Demand (kW or m3/hr)*	Total Emissions (kgCO ₂ e)
Baseline: Code 95% Furnace	Furnace Fan	4,798	33,658,351	100%	30	263	0.95	0.2	82
	New 95% AFUE Furnace				454	1,010		0.9	1,951
	Total				484				2,033
Hybrid Heating Heat Pump Coil with Existing Furnace	Heat Pump	4,370	26,917,219	80%	300	2,624	3.0	2.2	839
	Backup Furnace	429	6,741,133	20%	96	214	0.9	0.9	414
	Total	4,799	33,658,351	100%	396				1,253
Hybrid Heating Heat Pump Coil with New Furnace	Heat Pump	4,390	27,273,455	81%	274	2,405	3.3	2.4	769
	Backup Furnace	409	6,384,897	19%	87	192	0.95	0.9	371
	Total	4,799	33,658,351	100%	361				1,140
Cold Climate Heat Pump	Heat Pump	4,799	33,658,351	100%	371	3,243	3.0	4.4	1,018
	Supplemental Electric Resistance	0	0	0%	0	0	1.0	0.0	
	Total	4,799	33,658,351	100%	371	3,243	3.0	4.4	
Non Cold Climate Heat Pump	Heat Pump	4,732	33,139,994	98%	369	3,226	3.0	2.9	1,060
	Supplemental Electric Resistance	67	518,357	2%	17	152	1.0	7.8	
	Total	4,799	33,658,351	100%	386	3,378	2.9	8.0	

*The operational peak demand values for the heat pump and supplemental heating are non-coincident and do not occur at the same time. Instead, they reflect their respective maximum peak hourly demand values throughout the year. The heat pump cannot operate below its lockout temperature potentially resulting in periods of operation where supplemental heating satisfies the entire load. Supplemental heating peak demand does not include fan power while the total peak demand does.

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Table 8: Results Table for Toronto with a 4 Ton Heating Load

Scenario	System	Heating Hours	Annual Heating Load (Btu)	Percent of Total Load	Total Annual Cost \$	Annual Consumption (kWh or m3)	Annual Efficiency (COP or AFUE)	Operational Peak Demand (kW or m3/hr)*	Total Emissions (kgCO ₂ e)
Baseline: Code 95% Furnace	Furnace Fan	4,798	53,853,362	100%	48	421	0.95	0.4	132
	New 95% AFUE Furnace				727	1,616		1.4	3,121
	Total				775				3,253
Hybrid Heating Heat Pump Coil with Existing Furnace	Heat Pump	4,387	43,543,204	81%	485	4,250	3.0	3.8	1,357
	Backup Furnace	412	10,310,158	19%	147	328	0.9	1.4	633
	Total	4,799	53,853,362	100%	632				1,990
Hybrid Heating Heat Pump Coil with New Furnace	Heat Pump	4,391	43,668,680	81%	439	3,850	3.3	4.0	1,231
	Backup Furnace	408	10,184,682	19%	138	307	0.95	1.4	592
	Total	4,799	53,853,362	100%	577				1,823
Cold Climate Heat Pump	Heat Pump	4,798	53,852,168	100%	594	5,194	3.0	6.8	1,630
	Supplemental Electric Resistance	1	1,194	0%	0	0	1.0	0.3	
	Total	4,799	53,853,362	100%	594	5,195	3.0	7.2	
Non Cold Climate Heat Pump	Heat Pump	4,732	53,023,991	98%	591	5,162	3.0	4.6	1,697
	Supplemental Electric Resistance	67	829,372	2%	28	243	1.0	12.5	
	Total	4,799	53,853,362	100%	618	5,405	2.9	12.9	

*The operational peak demand values for the heat pump and supplemental heating are non-coincident and do not occur at the same time. Instead, they reflect their respective maximum peak hourly demand values throughout the year. The heat pump cannot operate below its lockout temperature resulting in periods of operation where supplemental heating satisfies the entire load. Supplemental heating peak demand does not include fan power while the total peak demand does.

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Table 9: Results Table for Toronto with a 5 Ton Heating Load

Scenario	System	Heating Hours	Annual Heating Load (Btu)	Percent of Total Load	Total Annual Cost \$	Annual Consumption (kWh or m3)	Annual Efficiency (COP or AFUE)	Operational Peak Demand (kW or m3/hr)*	Total Emissions (kgCO ₂ e)
Baseline: Code 95% Furnace	Furnace Fan	4,798	67,316,703	100%	60	526	0.95	0.4	165
	New 95% AFUE Furnace				909	2,020		1.7	3,902
	Total				969				4,066
Hybrid Heating Heat Pump Coil with Existing Furnace	Heat Pump	4,387	54,429,005	81%	607	5,310	3.0	4.7	1,695
	Backup Furnace	412	12,887,698	19%	184	409	0.9	1.8	791
	Total	4,799	67,316,703	100%	790				2,486
Hybrid Heating Heat Pump Coil with New Furnace	Heat Pump	4,391	54,585,850	81%	549	4,811	3.3	4.1	1,538
	Backup Furnace	408	12,730,853	19%	173	383	0.95	1.7	740
	Total	4,799	67,316,703	100%	721				2,279
Cold Climate Heat Pump	Heat Pump	4,798	67,314,055	100%	743	6,495	3.0	8.4	2,038
	Supplemental Electric Resistance	1	2,648	0%	0	1	1.0	0.8	
	Total	4,799	67,316,703	100%	743	6,496	3.0	9.1	
Non Cold Climate Heat Pump	Heat Pump	4,732	66,279,988	98%	738	6,452	3.0	5.7	2,121
	Supplemental Electric Resistance	67	1,036,715	2%	35	304	1.0	15.7	
	Total	4,799	67,316,703	100%	773	6,756	2.9	16.1	

*The operational peak demand values for the heat pump and supplemental heating are non-coincident and do not occur at the same time. Instead, they reflect their respective maximum peak hourly demand values throughout the year. The heat pump cannot operate below its lockout temperature resulting in periods of operation where supplemental heating satisfies the entire load. Supplemental heating peak demand does not include fan power while the total peak demand does.

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Table 10: Results Table for Ottawa with a 2.5 Ton Heating Load

Scenario	System	Heating Hours	Annual Heating Load (Btu)	Percent of Total Load	Total Annual Cost \$	Annual Consumption (kWh or m3)	Annual Efficiency (COP or AFUE)	Operational Peak Demand (kW or m3/hr)*	Total Emissions (kgCO ₂ e)
Baseline: Code 95% Furnace	Furnace Fan	5,089	39,230,702	100%	35	306	0.95	0.2	96
	New 95% AFUE Furnace				530	1,177		0.9	2,274
	Total				565				2,370
Hybrid Heating Heat Pump Coil with Existing Furnace	Heat Pump	4,229	26,119,299	67%	298	2,598	2.9	2.2	842
	Backup Furnace	861	13,111,402	33%	186	416	0.9	0.9	803
	Total	5,090	39,230,702	100%	484				1,646
Hybrid Heating Heat Pump Coil with New Furnace	Heat Pump	4,233	26,190,562	67%	268	2,341	3.3	2.4	762
	Backup Furnace	857	13,040,140	33%	176	392	0.95	0.9	757
	Total	5,090	39,230,702	100%	445				1,519
Cold Climate Heat Pump	Heat Pump	5,064	38,991,748	99%	477	4,142	2.8	4.3	1,321
	Supplemental Electric Resistance	26	238,953	1%	9	70	1.0	8.3	
	Total	5,090	39,230,702	100%	486	4,212	2.7	8.6	
Non Cold Climate Heat Pump	Heat Pump	4,825	34,804,326	89%	406	3,537	2.9	2.9	1,528
	Supplemental Electric Resistance	265	4,426,376	11%	157	1,297	1.0	8.3	
	Total	5,090	39,230,702	100%	562	4,834	2.4	8.6	

*The operational peak demand values for the heat pump and supplemental heating are non-coincident and do not occur at the same time. Instead, they reflect their respective maximum peak hourly demand values throughout the year. The heat pump cannot operate below its lockout temperature resulting in periods of operation where supplemental heating satisfies the entire load. Supplemental heating peak demand does not include fan power while the total peak demand does.

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Table 11: Results Table for Ottawa with a 4 Ton Heating Load

Scenario	System	Heating Hours	Annual Heating Load (Btu)	Percent of Total Load	Total Annual Cost \$	Annual Consumption (kWh or m3)	Annual Efficiency (COP or AFUE)	Operational Peak Demand (kW or m3/hr)*	Total Emissions (kgCO ₂ e)
Baseline: Code 95% Furnace	Furnace Fan	5,089	62,769,123	100%	56	490	0.95	0.4	153
	New 95% AFUE Furnace				848	1,883		1.4	3,638
	Total				904				3,792
Hybrid Heating Heat Pump Coil with Existing Furnace	Heat Pump	4,232	41,873,877	67%	477	4,157	3.0	3.6	1,347
	Backup Furnace	858	20,895,245	33%	297	663	0.9	1.4	1,280
	Total	5,090	62,769,123	100%	774				2,628
Hybrid Heating Heat Pump Coil with New Furnace	Heat Pump	4,233	41,904,899	67%	430	3,744	3.3	3.2	1,218
	Backup Furnace	857	20,864,223	33%	282	627	0.95	1.4	1,211
	Total	5,090	62,769,123	100%	712				2,429
Cold Climate Heat Pump	Heat Pump	5,061	62,343,809	99%	762	6,625	2.8	6.6	2,117
	Supplemental Electric Resistance	29	425,314	1%	16	125	1.0	13.4	
	Total	5,090	62,769,123	100%	779	6,750	2.7	13.7	
Non Cold Climate Heat Pump	Heat Pump	4,825	55,686,921	89%	649	5,660	2.9	4.6	2,444
	Supplemental Electric Resistance	265	7,082,202	11%	251	2,074	1.0	13.4	
	Total	5,090	62,769,123	100%	900	7,734	2.4	13.7	

*The operational peak demand values for the heat pump and supplemental heating are non-coincident and do not occur at the same time. Instead, they reflect their respective maximum peak hourly demand values throughout the year. The heat pump cannot operate below its lockout temperature resulting in periods of operation where supplemental heating satisfies the entire load. Supplemental heating peak demand does not include fan power while the total peak demand does.

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Table 12: Results Table for Ottawa with a 5 Ton Heating Load

Scenario	System	Heating Hours	Annual Heating Load (Btu)	Percent of Total Load	Total Annual Cost \$	Annual Consumption (kWh or m3)	Annual Efficiency (COP or AFUE)	Operational Peak Demand (kW or m3/hr)*	Total Emissions (kgCO ₂ e)
Baseline: Code 95% Furnace	Furnace Fan	5,089	78,461,403	100%	70	613	0.95	0.4	192
	New 95% AFUE Furnace				1,059	2,354		1.7	4,548
	Total				1,130				4,739
Hybrid Heating Heat Pump Coil with Existing Furnace	Heat Pump	4,232	52,342,346	67%	595	5,192	3.0	4.6	1,683
	Backup Furnace	858	26,119,057	33%	371	828	0.9	1.8	1,600
	Total	5,090	78,461,403	100%	967				3,284
Hybrid Heating Heat Pump Coil with New Furnace	Heat Pump	4,233	52,381,124	67%	537	4,680	3.3	4.0	1,523
	Backup Furnace	857	26,080,279	33%	353	784	0.95	1.7	1,514
	Total	5,090	78,461,403	100%	890				3,037
Cold Climate Heat Pump	Heat Pump	5,057	77,908,019	99%	953	8,283	2.8	8.2	2,649
	Supplemental Electric Resistance	33	553,384	1%	21	162	1.0	16.7	
	Total	5,090	78,461,403	100%	974	8,445	2.7	17.1	
Non Cold Climate Heat Pump	Heat Pump	4,825	69,608,651	89%	811	7,074	2.9	5.7	3,055
	Supplemental Electric Resistance	265	8,852,752	11%	314	2,593	1.0	16.7	
	Total	5,090	78,461,403	100%	1,125	9,668	2.4	17.1	

*The operational peak demand values for the heat pump and supplemental heating are non-coincident and do not occur at the same time. Instead, they reflect their respective maximum peak hourly demand values throughout the year. The heat pump cannot operate below its lockout temperature resulting in periods of operation where supplemental heating satisfies the entire load. Supplemental heating peak demand does not include fan power while the total peak demand does.

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Table 13: Results Table for Windsor with a 2.5 Ton Heating Load

Scenario	System	Heating Hours	Annual Heating Load (Btu)	Percent of Total Load	Total Annual Cost \$	Annual Consumption (kWh or m3)	Annual Efficiency (COP or AFUE)	Operational Peak Demand (kW or m3/hr)*	Total Emissions (kgCO ₂ e)
Baseline: Code 95% Furnace	Furnace Fan	4,797	33,541,597	100%	30	262	0.95	0.2	82
	New 95% AFUE Furnace				453	1,006		0.9	1,944
	Total				483				2,026
Hybrid Heating Heat Pump Coil with Existing Furnace	Heat Pump	4,578	30,413,997	91%	324	2,830	3.1	2.2	899
	Backup Furnace	220	3,127,601	9%	55	123	0.9	0.9	238
	Total	4,798	33,541,597	100%	379				1,138
Hybrid Heating Heat Pump Coil with New Furnace	Heat Pump	4,649	31,773,851	95%	309	2,693	3.5	2.4	852
	Backup Furnace	149	1,767,746	5%	34	76	0.95	0.9	147
	Total	4,798	33,541,597	100%	343				999
Cold Climate Heat Pump	Heat Pump	4,798	33,541,597	100%	335	2,925	3.4	3.7	918
	Supplemental Electric Resistance	0	0	0%	0	0	1.0	0.0	
	Total	4,798	33,541,597	100%	335	2,925	3.4	3.7	
Non Cold Climate Heat Pump	Heat Pump	4,786	33,492,949	100%	338	2,954	3.3	2.9	932
	Supplemental Electric Resistance	12	48,648	0%	1	14	1.0	2.2	
	Total	4,798	33,541,597	100%	339	2,968	3.3	5.1	

*The operational peak demand values for the heat pump and supplemental heating are non-coincident and do not occur at the same time. Instead, they reflect their respective maximum peak hourly demand values throughout the year. The heat pump cannot operate below its lockout temperature resulting in periods of operation where supplemental heating satisfies the entire load. Supplemental heating peak demand does not include fan power while the total peak demand does.

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Table 14: Results Table for Windsor with a 4 Ton Heating Load

Scenario	System	Heating Hours	Annual Heating Load (Btu)	Percent of Total Load	Total Annual Cost \$	Annual Consumption (kWh or m3)	Annual Efficiency (COP or AFUE)	Operational Peak Demand (kW or m3/hr)*	Total Emissions (kgCO ₂ e)
Baseline: Code 95% Furnace	Furnace Fan	4,797	53,666,556	100%	48	419	0.95	0.4	131
	New 95% AFUE Furnace				724	1,610		1.4	3,111
	Total				772				3,242
Hybrid Heating Heat Pump Coil with Existing Furnace	Heat Pump	4,634	50,349,445	94%	538	4,712	3.1	4.0	1,490
	Backup Furnace	164	3,317,111	6%	65	144	0.9	1.4	278
	Total	4,798	53,666,556	100%	602				1,768
Hybrid Heating Heat Pump Coil with New Furnace	Heat Pump	4,653	50,982,158	95%	495	4,315	3.5	4.2	1,364
	Backup Furnace	145	2,684,397	5%	53	117	0.95	1.4	227
	Total	4,798	53,666,556	100%	548				1,591
Cold Climate Heat Pump	Heat Pump	4,798	53,666,556	100%	535	4,680	3.4	6.0	1,469
	Supplemental Electric Resistance	0	0	0%	0	0	1.0	0.0	
	Total	4,798	53,666,556	100%	535	4,680	3.4	6.0	
Non Cold Climate Heat Pump	Heat Pump	4,786	53,588,719	100%	541	4,727	3.3	4.6	1,491
	Supplemental Electric Resistance	12	77,837	0%	2	23	1.0	3.6	
	Total	4,798	53,666,556	100%	543	4,749	3.3	8.2	

*The operational peak demand values for the heat pump and supplemental heating are non-coincident and do not occur at the same time. Instead, they reflect their respective maximum peak hourly demand values throughout the year. The heat pump cannot operate below its lockout temperature resulting in periods of operation where supplemental heating satisfies the entire load. Supplemental heating peak demand does not include fan power while the total peak demand does.

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Table 15: Results Table for Windsor with a 5 Ton Heating Load

Scenario	System	Heating Hours	Annual Heating Load (Btu)	Percent of Total Load	Total Annual Cost \$	Annual Consumption (kWh or m3)	Annual Efficiency (COP or AFUE)	Operational Peak Demand (kW or m3/hr)*	Total Emissions (kgCO ₂ e)
Baseline: Code 95% Furnace	Furnace Fan	4,797	67,083,195	100%	60	524	0.95	0.4	164
	New 95% AFUE Furnace				906	2,012		1.7	3,888
	Total				965				4,052
Hybrid Heating Heat Pump Coil with Existing Furnace	Heat Pump	4,643	63,311,433	94%	676	5,922	3.1	5.0	1,872
	Backup Furnace	155	3,771,762	6%	75	168	0.9	1.8	325
	Total	4,798	67,083,195	100%	751				2,197
Hybrid Heating Heat Pump Coil with New Furnace	Heat Pump	4,654	63,780,830	95%	620	5,398	3.5	5.2	1,707
	Backup Furnace	144	3,302,365	5%	65	145	0.95	1.7	280
	Total	4,798	67,083,195	100%	685				1,987
Cold Climate Heat Pump	Heat Pump	4,798	67,083,195	100%	669	5,850	3.4	7.5	1,837
	Supplemental Electric Resistance	0	0	0%	0	0	1.0	0.0	
	Total	4,798	67,083,195	100%	669	5,850	3.4	7.5	
Non Cold Climate Heat Pump	Heat Pump	4,786	66,985,899	100%	676	5,908	3.3	5.7	1,863
	Supplemental Electric Resistance	12	97,296	0%	3	28	1.0	4.4	
	Total	4,798	67,083,195	100%	679	5,937	3.3	10.2	

*The operational peak demand values for the heat pump and supplemental heating are non-coincident and do not occur at the same time. Instead, they reflect their respective maximum peak hourly demand values throughout the year. The heat pump cannot operate below its lockout temperature resulting in periods of operation where supplemental heating satisfies the entire load. Supplemental heating peak demand does not include fan power while the total peak demand does.

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Table 16: Results Table for Thunder Bay with a 2.5 Ton Heating Load

Scenario	System	Heating Hours	Annual Heating Load (Btu)	Percent of Total Load	Total Annual Cost \$	Annual Consumption (kWh or m3)	Annual Efficiency (COP or AFUE)	Operational Peak Demand (kW or m3/hr)*	Total Emissions (kgCO ₂ e)
Baseline: Code 95% Furnace	Furnace Fan	5,720	43,257,475	100%	39	338	0.95	0.2	106
	New 95% AFUE Furnace				584	1,298		0.9	2,507
	Total				623				2,613
Hybrid Heating Heat Pump Coil with Existing Furnace	Heat Pump	4,283	22,079,462	51%	249	2,176	3.0	2.1	727
	Backup Furnace	1,437	21,178,013	49%	301	671	0.9	0.9	1,296
	Total	5,720	43,257,475	100%	549				2,022
Hybrid Heating Heat Pump Coil with New Furnace	Heat Pump	4,283	22,079,462	51%	225	1,967	3.3	1.6	662
	Backup Furnace	1,437	21,178,013	49%	286	635	0.95	0.9	1,228
	Total	5,720	43,257,475	100%	511				1,889
Cold Climate Heat Pump	Heat Pump	5,624	41,583,103	96%	551	4,774	2.6	4.3	1,652
	Supplemental Electric Resistance	97	1,674,372	4%	56	490	1.0	8.3	
	Total	5,721	43,257,475	100%	607	5,265	2.4	8.6	
Non Cold Climate Heat Pump	Heat Pump	5,164	33,597,886	78%	412	3,572	2.8	2.8	2,029
	Supplemental Electric Resistance	556	9,659,590	22%	333	2,829	1.0	8.3	
	Total	5,720	43,257,475	100%	745	6,402	2.0	8.6	

*The operational peak demand values for the heat pump and supplemental heating are non-coincident and do not occur at the same time. Instead, they reflect their respective maximum peak hourly demand values throughout the year. The heat pump cannot operate below its lockout temperature resulting in periods of operation where supplemental heating satisfies the entire load. Supplemental heating peak demand does not include fan power while the total peak demand does.

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Table 17: Results Table for Thunder Bay with a 4 Ton Heating Load

Scenario	System	Heating Hours	Annual Heating Load (Btu)	Percent of Total Load	Total Annual Cost \$	Annual Consumption (kWh or m3)	Annual Efficiency (COP or AFUE)	Operational Peak Demand (kW or m3/hr)*	Total Emissions (kgCO ₂ e)
Baseline: Code 95% Furnace	Furnace Fan	5,720	69,211,961	100%	62	541	0.95	0.4	169
	New 95% AFUE Furnace				935	2,076		1.4	4,012
	Total				997				4,181
Hybrid Heating Heat Pump Coil with Existing Furnace	Heat Pump	4,283	35,327,139	51%	397	3,478	3.0	3.3	1,162
	Backup Furnace	1,437	33,884,821	49%	481	1,073	0.9	1.4	2,073
	Total	5,720	69,211,961	100%	878				3,235
Hybrid Heating Heat Pump Coil with New Furnace	Heat Pump	4,283	35,327,139	51%	360	3,147	3.3	2.6	1,059
	Backup Furnace	1,437	33,884,821	49%	458	1,017	0.95	1.4	1,964
	Total	5,720	69,211,961	100%	818				3,023
Cold Climate Heat Pump	Heat Pump	5,613	66,464,849	96%	881	7,636	2.6	6.9	2,649
	Supplemental Electric Resistance	108	2,747,112	4%	92	805	1.0	13.4	
	Total	5,721	69,211,961	100%	973	8,441	2.4	13.7	
Non Cold Climate Heat Pump	Heat Pump	5,164	53,756,617	78%	660	5,716	2.8	4.5	3,246
	Supplemental Electric Resistance	556	15,455,343	22%	532	4,527	1.0	13.4	
	Total	5,720	69,211,961	100%	1,192	10,243	2.0	13.7	

*The operational peak demand values for the heat pump and supplemental heating are non-coincident and do not occur at the same time. Instead, they reflect their respective maximum peak hourly demand values throughout the year. The heat pump cannot operate below its lockout temperature resulting in periods of operation where supplemental heating satisfies the entire load. Supplemental heating peak demand does not include fan power while the total peak demand does.

Memorandum to Enbridge
 May 19th, 2023
 Page 21 of 21

Table 18: Results Table for Thunder Bay with a 5 Ton Heating Load

Scenario	System	Heating Hours	Annual Heating Load (Btu)	Percent of Total Load	Total Annual Cost \$	Annual Consumption (kWh or m3)	Annual Efficiency (COP or AFUE)	Operational Peak Demand (kW or m3/hr)*	Total Emissions (kgCO ₂ e)
Baseline: Code 95% Furnace	Furnace Fan	5,720	86,514,951	100%	78	676	0.95	0.4	211
	New 95% AFUE Furnace				1,168	2,595		1.7	5,014
	Total				1,246				5,226
Hybrid Heating Heat Pump Coil with Existing Furnace	Heat Pump	4,283	44,158,924	51%	497	4,347	3.0	4.1	1,452
	Backup Furnace	1,437	42,356,027	49%	601	1,341	0.9	1.8	2,591
	Total	5,720	86,514,951	100%	1,098				4,044
Hybrid Heating Heat Pump Coil with New Furnace	Heat Pump	4,283	44,158,924	51%	450	3,934	3.3	3.3	1,324
	Backup Furnace	1,437	42,356,027	49%	572	1,271	0.95	1.7	2,455
	Total	5,720	86,514,951	100%	1,022				3,779
Cold Climate Heat Pump	Heat Pump	5,608	83,045,026	96%	1,101	9,542	2.6	8.6	3,314
	Supplemental Electric Resistance	113	3,469,925	4%	116	1,016	1.0	16.7	
	Total	5,721	86,514,951	100%	1,217	10,559	2.4	17.1	
Non Cold Climate Heat Pump	Heat Pump	5,164	67,195,772	78%	824	7,145	2.8	5.6	4,057
	Supplemental Electric Resistance	556	19,319,179	22%	666	5,659	1.0	16.7	
	Total	5,720	86,514,951	100%	1,490	12,804	2.0	17.1	

*The operational peak demand values for the heat pump and supplemental heating are non-coincident and do not occur at the same time. Instead, they reflect their respective maximum peak hourly demand values throughout the year. The heat pump cannot operate below its lockout temperature resulting in periods of operation where supplemental heating satisfies the entire load. Supplemental heating peak demand does not include fan power while the total peak demand does.

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Please see Exhibit I.ED-28 Attachment 2.xlsx on the OEB's RDS

From: Gerry Dennis <Gerry.Dennis@enbridge.com>
Sent: Tuesday, May 9, 2023 4:09:29 PM
Cc: Octavian Ghiricociu <Octavian.Ghiricociu@enbridge.com>
Subject: HVAC Contractor Survey

Good afternoon,

Enbridge Gas is seeking information to support the Company's understanding of the all-in upfront costs required for homes to convert to natural gas heating or electric cold climate air source heat pumps (ccASHPs). The purpose for the analysis is to determine conversion costs to ccASHPs (for the purpose of converting the homes to all-electric configurations) or to natural gas heating.

Please see the questions below and let us know if you have any questions. Some assumptions to help guide your responses are as follows:

- Assume the home has existing forced air heating (either oil, propane or electric furnace)
- For question #1 & #2, assume the home is converting to a natural gas furnace.
- For question #3 & #4 assume the home is converting to an all-electric heating system with a centrally ducted heat pump and air handler. The air handler should to be properly sized with the required electricity resistance backup.

Questions: Please provide typical all-in retail costs (installation and equipment) for products your company sells.

1. Natural gas furnace (95% AFUE)
 - a. Installed cost for a natural gas furnace: Low end \$ _____ / High end \$ _____

2. Please identify and list any additional costs that may be required to convert homes to a gas furnace (95% AFUE) from oil, propane or electric furnace: _____
 - a. Additional costs: Low end \$ _____ / High end \$ _____

3. ccASHP with air handler and electric resistance backup
 - a. Installed cost for the heat pump (equipment including A-coil and installation): Low end \$ _____ / High End \$ _____
 - b. Installed cost for the air handler, including electric resistance heating required to meet design conditions (installation and equipment): Low end \$ _____ / High End \$ _____

4. Please identify any additional costs that may be required to convert homes to an all-electric heating system from oil, propane or electric furnace.
 - a. Panel upgrade: Low end \$ _____ / High End \$ _____
 - b. Utility service upgrades (i.e. 200A service): Low end \$ _____ / High End \$ _____
 - c. Wiring or other costs inside the home: Low End \$ _____ / High End \$ _____
 - d. Any additional costs required for the conversion – please identify what these items are: _____
 - i. Additional costs: Low end \$ _____ / High end \$ _____

Trusting you are able to provide feedback to the above, and if so kindly respond by May 15th or sooner.

Best regards,

Gerry Dennis
647-515-7803

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) Please provide file a copy of EB-2022-0249, Exhibit I.ED.16, Attachment 2 and the associated live excel spreadsheet.
- b) Is Enbridge asking Guidehouse to continue with the work described in (a)? If yes, please describe the next steps.
- c) For what purpose did Enbridge ask Guidehouse to prepare the analysis discussed in (a).

Response:

- a) Please see Attachment 1 to the response at Exhibit I.ED-28 for the Guidehouse report/memo, and Attachment 2 to the response at Exhibit I.ED-28 for the live excel spreadsheet. Both attachments are unchanged from the attachments referenced in the interrogatory.
- b) Enbridge Gas is in the process of assessing additional analysis related to the deliverables provided in part a) above; however, no decisions have been made. The next steps involve determining the potential scope of work.
- c) Enbridge Gas commissioned Guidehouse Inc. in Q1 2023 to provide an assessment of the annual operating costs of all-electric and hybrid air source heat pump systems, including high-efficiency electric cold climate air source heat pumps. The analysis included four Ontario climates (Windsor, Toronto, Ottawa, and Thunder Bay) at three peak winter design loads (2.5 tons, 4 tons, and 5 tons). The analysis will assist the Company with understanding the performance trade-offs between all-electric heat pump systems and hybrid heat pump systems with natural gas backup.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) Please provide a table showing all the assumptions regarding heat pump capital costs and efficiency levels outlined in Exhibit I.10h.EGI.STAFF.77 in EB-2021-0002.
- b) Please provide the implicit cost and efficiency for a cold climate heat pump underlying the Total Resource Cost figures for Enbridge's DSM programs.
- c) Please provide a table showing the cost of a cold climate heat pump per the US Energy Information Administration's *Buildings Sector Appliance and Equipment Costs and Efficiencies*.¹ Please convert the costs to Canadian dollars.
- d) Please provide a copy of all studies or reports with details on the installed cost of a cold climate heat pump in Ontario and/or Canada.
- e) For (d) please confer with Enbridge's DSM team in responding to the question and confirm that you have done so.
- f) Please comment on the following analysis by Ralph Torrie on the heating savings from heat pumps - <https://www.corporateknights.com/issues/2023-06-best-50-issue/calculate-the-savings-from-electrifying-your-home/>.

Response:

- a) Enbridge Gas respectfully declines to provide the requested information. The information sought by ED is no longer current. Enbridge Gas has provided more up to date and refined information regarding assumptions related to electric heat pumps (see response Exhibit I.ED-28 part a) for more information).
- b) Enbridge does not have implicit upfront costs or performance efficiency assumptions for electric cold climate heat pumps as part of its DSM programs. Electric cold

¹ <https://www.eia.gov/analysis/studies/buildings/equipcosts/>.

climate heat pumps are included within Enbridge Gas's HER+ program, however the program incents a wide range of electric heat pumps that have a range of upfront costs and performance efficiencies. Each electric heat pump home/participant is considered/assessed individually.

- c) Enbridge Gas respectfully declines to reproduce the requested information. The website link provided by ED in the interrogatory appears to contain significant amounts of publicly available information provided by another party, which Enbridge Gas cannot not reasonably interpret and review.
- d) Enbridge Gas has not completed studies or reports with details on installed cost of electric cold climate heat pumps in Ontario and/or Canada. In May 2023 Enbridge Gas requested upfront cost information from HVAC contractors via e-mail survey regarding conversions to high-efficiency electric cold climate air source heat pumps (see response to Exhibit I.ED-28 part a) for more information). The results of the survey found that there is a wide range of upfront costs for conversions to high-efficiency electric cold climate air source heat pumps. Enbridge Gas cautions that the results are meant to be illustrative and that more refined research would be required to establish robust estimates/assumptions.
- e) Confirmed.
- f) The article appears to be related to non-natural gas energy solutions and is well outside the scope Enbridge Gas's application and evidence, and as such the Company has no comments.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) Please provide a table summarizing the comparison of the cost of heating a home with methane gas versus heating a home with a heat pump as set out in Ministry of Energy document entitled “Future of Natural Gas Expansion and Home Heating Affordability - Discussion Paper for Consultation.”¹
- b) To allow it to be referred to with an exhibit number, please file a copy of the Ministry of Energy document entitled “Future of Natural Gas Expansion and Home Heating Affordability - Discussion Paper for Consultation.”²
- c) Please provide a copy of any submissions that Enbridge has made to the Ministry of Energy regarding the future of natural gas expansion.

Response:

a) – b)

Enbridge Gas respectfully declines to produce the requested table and file a copy of the referenced report, as it was not produced by Enbridge Gas and the Company cannot verify the data or analysis contained within it. Please refer to Exhibit I.ED-28 for further discussion on the cost of heating a home with natural gas versus a heat pump.

- c) At this time, the Company has not made a submission to the Ministry of Energy regarding the future of natural gas expansion.

¹https://prod-environmental-registry.s3.amazonaws.com/202308/Future%20of%20Natural%20Gas%20Expansion%20Final_pdf_0.pdf

²https://prod-environmental-registry.s3.amazonaws.com/202308/Future%20of%20Natural%20Gas%20Expansion%20Final_pdf_0.pdf

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1, Attachment 2

Question(s):

- a) Please confirm that home owners are eligible for up to \$5,000 grants and \$40,000 in interest free loans from the federal government for qualifying cold climate air source heat pump installations.
- b) Please provide any studies or analysis that Enbridge has completed on the impact of the above-references \$5,000 grant and interest free loans for air source heat pumps on the likely number of customers attaching to the proposed pipeline.
- c) Please provide any studies or analysis that Enbridge has completed on the impact of current high gas prices on the likely number of customers attaching to the proposed pipeline.

Response:

- a) Subject to meeting program eligibility requirements, certain homeowners are currently eligible for up to \$5,000 in grants from the federal government for qualifying air source heat pumps, as detailed at the following link:

<https://www.enbridgegas.com/residential/rebates-energy-conservation/home-efficiency-rebate-plus>

As a natural gas utility, Enbridge Gas is not in a position to provide information regarding programs for electric end-use equipment which the Company does not administer. Please refer to the Canada Greener Homes program website for information on loans currently offered by the federal government for qualifying air source heat pumps:

<https://natural-resources.canada.ca/energy-efficiency/homes/canada-greener-homes-initiative/canada-greener-homes-grant/greener-homes-grant-ontario/24835>

Please note that the information set out above, including available grants and program eligibility requirements, is current as of the date of this filing and is subject to change.

b) - c)

Enbridge Gas has not completed any studies or analyses on the topics referenced by ED. The attachment forecast is based on the energy interests expressed by actual residents and business-owners within the Project area, which intrinsically incorporates all factors including financial and non-financial considerations. The Company has no reason to believe that the attachment forecast is inaccurate.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1

Question(s):

- a) Please confirm that Canada's 2030 Emissions Reduction Plan includes a projection for carbon emissions associated with buildings to decline by 41% by 2030 from 2019 levels (to 53 CO₂e from 91 CO₂e) and that it plans for a 22% reduction by 2026 from 2019 levels (to 71 CO₂e from 91 CO₂e).¹ If not, please explain.
- b) Please confirm that Canada's 2030 Emissions Reduction Plan has formal legal status under s. 9 of the Canadian Net-Zero Emissions Accountability Act in relation to the legally binding targets under that Act.² If not, please explain.
- c) Please confirm that Canada has committed to net-zero emissions from electricity generation by 2035. If not, please explain.

Response:

- a) Not confirmed. The Government of Canada has set an economy-wide emissions reduction target of 40-45% below 2005 levels by 2030. This is stated in the 2030 Emissions Reduction Plan, on page 15.³

On June 29, 2021, the Canadian Net-Zero Emissions Accountability Act (the Act) became law. The Act marks the first time a Canadian government has legislated emissions reductions accountability to address climate change. The Act sets legal requirements for current and future governments to plan, report, and course correct on the path to net-zero emissions by or before 2050. It enshrines in legislation Canada's 2030 Nationally Determined Contribution under the Paris Agreement, which is to reduce emissions by 40-45% below 2005 levels, as announced by Prime Minister Trudeau in April 2021.

¹ <https://www.canada.ca/en/environment-climate-change/news/2022/03/2030-emissions-reduction-plan--canadas-next-steps-for-clean-air-and-a-strong-economy.html>

² *Canadian Net-Zero Emissions Accountability Act*, s. 9.

³ <https://www.canada.ca/content/dam/eccc/documents/pdf/climate-change/erp/Canada-2030-Emissions-Reduction-Plan-eng.pdf>.

On page 88 of the same document, the Government of Canada has provided the reduction potential of various sectors, including the building sector; however, it is noted in the document that these are projected sectoral contributions, not sectoral targets, and that emissions reductions ultimately contributed by each sector are likely to vary over time. On pages 36 and 37, the Government of Canada has provided a high-level overview of actions and investments being taken to achieve greenhouse gas (GHG) reductions within the building sector; however, the GHG reductions to be achieved from these actions and investments are not stated. Development and enactment of policies and regulations is required to implement these actions and investments.

- b) Confirmed. However, it is important to note that the *Canadian Net-Zero Emissions Accountability Act* does not mandate specific targets for different sectors of the economy or jurisdictions. Rather, the statute requires the federal government to establish national targets and assess and report on the progress made over time.
- c) Confirmed. Environment and Climate Change Canada (ECCC) published the draft Clean Electricity Regulations (CER) on August 19, 2023, which is intended to drive progress towards reducing greenhouse gas emissions from electricity generation beginning in 2035. To support affordability and reliability while achieving net zero, ECCC has proposed a technology neutral and non-prescriptive approach, which will allow solutions such as carbon capture and storage, co-firing fossil fuels with low-carbon fuels or switching to low-carbon fuels to achieve compliance⁴. Additionally, ECCC is also proposing to allow electrical generation units commissioned before 2025 to become subject to the CER at the end of their prescribed life (20 years) and to operate unabated during emergency circumstances.

⁴ Government of Canada. 2023. Canada Gazette, Part 1, volume 157, Number 33: Clean Electricity Regulations. <https://www.gazette.gc.ca/rp-pr/p1/2023/2023-08-19/html/reg1-eng.html>.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

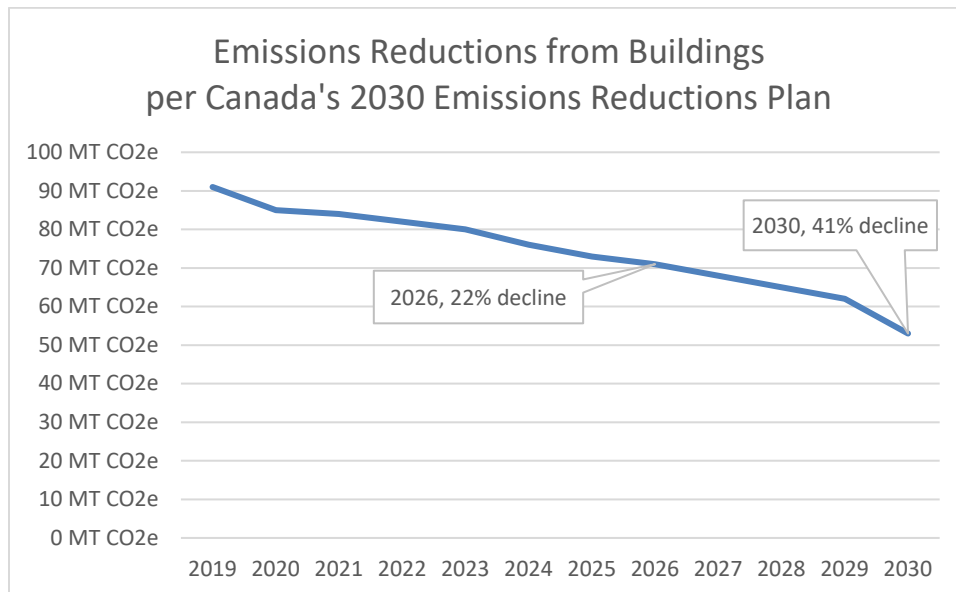
Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1

Question(s):

- a) Please confirm that the following chart accurately depicts a projection of emissions reductions from buildings per Canada's 2030 Emissions Reduction Plan.¹ If not, please prepare a chart that Enbridge believes is accurate:



- b) Does Enbridge agree that Canada's 2030 Emissions Reduction Plan is likely to impact the customer attachment forecast through future policies that cause some customers to choose electric heat pumps over gas? If not, please explain

¹ For the underlying numbers, see here: 2030 Emissions Reduction Plan – Canada's Next Steps for Clean Air and a Strong Economy ([link](#)).

Response:

- a) The data for the graph on page 88 of Canada's 2030 Emissions Reduction Plan is the potential greenhouse gas (GHG) reductions by sector, not a planned amount or target. The information is publicly available on the Government of Canada's website.² The graph provided by Environmental Defence appears to be an accurate representation of the information available on that website.
- b) No. The attachment forecast for the proposed Project is based on the known energy preferences expressed by actual residents and business-owners within the Project area, which intrinsically incorporate all factors including financial and non-financial considerations. The Company has no reason to believe that the attachment forecast is inaccurate. Future policies arising from Canada's 2030 Emissions Reduction Plan have yet to be drafted or proposed such that any material impacts to the customer attachment forecast can be clearly understood.

Enbridge Gas expects that Canada's 2030 Emissions Reduction Plan will require changes in the use of natural gas; however, it is not known at this time what those changes might be due to:

- i) Factors that could increase the volume of gas flowing through the system including fuel switching from higher emitting fuels to natural gas, and displacement of natural gas via blended fuels like hydrogen.
- ii) Some customers could maintain their current natural gas consumption and pair it with carbon capture, utilization and storage (CCUS) or renewable natural gas (RNG).
- iii) The adoption of emissions reduction energy solutions like hybrid heating would reduce customers' annual natural gas consumption; however, it may not reduce Enbridge Gas's design day demand or design hour demand, which is what is used to design its natural gas transmission and distribution systems.

Finally, Enbridge Gas's existing 150,000 kms of underground energy infrastructure provides energy resiliency and optionality at a low cost; therefore, existing customers could retain their peak capacity in order to preserve their ability to utilize existing gas generators, gas fireplaces, gas cooktops, or gas pool heaters when/if required. In such instances, even if such customers replace certain of their existing natural gas appliances with electric appliances (which would come at an added capital cost and is unlikely to occur immediately), peak natural gas demand could remain unchanged. Further, if customers place increased value on energy resilience and optionality in the future (e.g., should the frequency and severity of extreme weather events increase, or electrical system reliability/resilience decline) efficiency gains made via electrification could be offset by growth in customers seeking resiliency via gas system-based back-up.

² <https://www.canada.ca/en/services/environment/weather/climatechange/climate-plan/climate-plan-overview/emissions-reduction-2030.html>

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1

Question(s):

- a) Please provide a list of grants and loans available to customers in the proposed project area to install cold climate air source heat pumps.
- b) Please confirm whether each of the following statements is true. If not, please explain why:
 - i. The federal government is now providing \$5,000 incentives for customers to switch to high-efficiency electric heat pumps as part of its Greener Homes Grant;¹
 - ii. The federal government is now providing an additional \$5,000 in incentives for customers to switch from oil to high-efficiency electric heat pumps if they earn a median income or lower (e.g. \$122,000 after-tax income for a family of 4 in Ontario) through the Oil to Heat Pump Affordability Program²; and
 - iii. The federal government is now providing up to \$40,000 in interest free loans, which can be put towards conversions to electric heat pumps, and not gas equipment, through the Greener Homes Loan.³
- c) Further to (b)(ii) above, please provide a table showing the median income for Ontario that serves as the eligibility threshold for the Oil to Heat Pump Affordability Program?
- d) Please provide an estimate of the number and percent of residents in the project area that would be eligible for Oil to Heat Pump Affordability Program. This could be done, for example, based on statistics for the percent households at or below the eligibility threshold in the area or region.
- e) Please compare the cost of converting from oil to (i) gas versus (ii) an electric cold climate heat pump, accounting for two rebates noted above.

¹ <https://natural-resources.canada.ca/energy-efficiency/homes/canada-greener-homes-initiative/canada-greener-homes-grant/canada-greener-homes-grant/23441>

² <https://natural-resources.canada.ca/energy-efficiency/homes/canada-greener-homes-initiative/oil-heat-pump-affordability-program-part-the-canada-greener-homes-initiative/24775>.

³ <https://natural-resources.canada.ca/energy-efficiency/homes/canada-greener-homes-initiative/canada-greener-homes-loan/24286>

Response:

a) - d)

Please see the response at Exhibit I.ED-32 part a).

Please refer to publicly available websites for each program below:

- i. <https://www.enbridgegas.com/residential/rebates-energy-conservation/home-efficiency-rebate-plus>
 - ii. <https://natural-resources.canada.ca/energy-efficiency/homes/canada-greener-homes-initiative/oil-heat-pump-affordability-program-part-the-canada-greener-homes-initiative/24775>
 - iii. <https://natural-resources.canada.ca/energy-efficiency/homes/canada-greener-homes-initiative/canada-greener-homes-loan/24286>
- e) There are numerous factors that would require careful consideration in order to develop a consumer conversion cost comparison from oil to a non-natural gas energy solution (i.e., high-efficiency electric cold climate air source heat pumps which are the basis of ED's request). The Company does not have and cannot reasonably attain/assess this information at this time. Furthermore, consumer conversions from oil to non-natural gas energy solutions (i.e., high-efficiency electric cold climate air source heat pumps) and vice versa, are not within the scope of the Company's natural gas leave to construct Applications. Please see the response at Exhibit I.ED-1 part a) for more information.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1

Question(s):

- a) Please confirm how much additional annual subsidy individuals and families qualified under the Ontario Electricity Support Program can receive if they heat their home with electricity?
- b) Please provide an estimate of the number and percent of residents in the project area that would be eligible for the Ontario Electricity Support Program. This could be done, for example, based on statistics for the percent of households receiving social assistance

Response:

a) – b)

As a natural gas utility, Enbridge Gas is not in a position to provide information regarding electricity subsidies or related support programs which the Company does not administer. The Company understands that information regarding the same is publicly available via the following OEB webpage:

<https://ontarioelectricitysupport.ca/FAQ>

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1

Question(s):

- a) Does Enbridge agree that government policies or market forces related to decarbonization could impact the customer attachment or revenue forecasts? If not, please justify the response.
- b) What are the lifetime volumes of gas (m³) and carbon emissions (CO₂e) corresponding to the 40-year customer attachment and revenue forecasts in relation only to emissions from end-use combustion?
- c) What are the lifetime carbon emissions (CO₂e) corresponding to the 40-year customer attachment and revenue forecasts in relation only to upstream emissions (i.e. extraction and transportation)?
- d) In EB-2020-0066, Exhibit JT1.714, Enbridge estimated 14 gCO₂e/MJ related to upstream extraction, processing, transportation and distribution of gas.¹ Does Enbridge still believe this is the best estimate of upstream emissions? If not, please provide Enbridge's best estimate of upstream emissions.
- e) What are the lifetime carbon emissions (CO₂e) corresponding to the 40-year customer attachment and revenue forecasts in relation only to unburned methane from customer equipment (i.e. extraction and transportation)?²
- f) What is Enbridge's best estimate of the emissions (gCO₂e/MJ & tCO₂e/m³) arising from unburned methane emissions from customer equipment?
- g) Please confirm that the methane emissions cited in the following reference are only the methane emissions from combustion, not from leaks, and if Enbridge disagrees, please explain with excerpts: Ontario Ministry of the Environment and Climate

¹ See page 398: <http://www.rds.oeb.ca/HPECMWebDrawer/Record/680679/File/document>

² Any of the following sources could be used as an emissions factor: Quantifying Methane Emissions from Natural Gas Water Heaters ([link](#)); Unburned Methane Emissions from Residential Natural Gas Appliances ([link](#)); An Estimate of Natural Gas Methane Emissions from California Homes ([link](#)); Beyond-the-Meter: Unaccounted Sources of Methane Emissions in the Natural Gas; Distribution Sector ([link](#)); Methane and NO_x Emissions from Natural Gas Stoves, Cooktops, and Ovens in Residential Homes ([link](#)).

Change. (2017, November). Guideline for Quantification, Reporting and Verification of Greenhouse Gas Emissions. Table 20-3 and Table 20-4. https://prod-environmental-registry.s3.amazonaws.com/2018-01/013-1457_d_Guide.pdf.

- h) What are the emissions from the combustion of gas in Ontario (gCO₂e/MJ & tCO₂e/m³)?

Response:

- a) No. The Project-specific attachment/revenue forecast(s) is based on the current known energy preferences expressed by actual residents and business-owners within the Project area, which intrinsically incorporate all factors including financial and non-financial considerations. The Company has no reason to believe that the attachment forecast is inaccurate.

Enbridge Gas also notes that the market research undertaken in Q3 2022, set out in Exhibit B, Tab 1, Schedule 1, Attachment 3, indicates that with the equipment conversion cost, an additional surcharge for space and water heating equipment and the federal carbon pricing program, 87% of respondents overall are likely to convert their space heating systems and/or water heaters to natural gas.

- b - c) and e)

Enbridge Gas does not prepare 40-year customer attachment, demand and/or revenue forecasts, and preparing the same in response to ED's request would be onerous and is not reasonably possible to do within the timeframe established by the OEB for the current proceeding. Accordingly, Project-related lifetime gas volumes and greenhouse gas emissions related to end-use combustion, upstream emissions and un-burned methane emissions cannot reasonably be estimated at this time.

- d) On September 8, 2023, Environment and Climate Change Canada (ECCC) issued a pre-publication notice of a proposed change to the carbon intensity of natural gas to be used within the Clean Fuel Regulation³ for natural gas consumed within Canada. The proposed values are based on 2021 data. The average emissions from the upstream production, transportation and distribution of natural gas consumed within Canada proposed within the Clean Fuel Regulation are 10.34 gCO₂e/MJ. It should be noted that the origination of gas supplies consumed within Canada will vary regionally and may differ from the proposed national average value.

³ Environment and Climate Change Canada. 2023. Pre-publication: Proposed update to the carbon intensity of natural gas – early notice. <https://data-donnees.ec.gc.ca/data/climate/framework/fuel-life-cycle-assessment-model/English/Pre-publications-for-2024/2023.09-Proposed-update-to-the-carbon-intensity-of-natural-gas-early-notice/Readme-Pre-publication-Proposed-update-to-the-carbon-intensity-of-natural-gas-early-notice.pdf>.

- f) Based on the 2023 NIR⁴, Enbridge Gas estimates the amount of unoxidized (i.e., unburned) methane in the combustion of natural gas in residential equipment at 0.037 gCH₄/m³ (9.25 x 10⁻⁷ tCO₂e/m³ or 0.0238 gCO₂e/MJ⁵) of natural gas.
- g) Confirmed.
- h) As reported in the 2023 NIR, the emissions from combustion of natural gas in residential, construction, commercial/institutional and agricultural sectors in Ontario are 0.001932 tCO₂e/ m³⁶, or 49.7 gCO₂e/MJ⁷.

⁴ Environment and Climate Change Canada. 2023. National Inventory Report. Table A6.1-3. [En81-4-2021-2-eng.pdf \(publications.gc.ca\)](#).

⁵ As converted to energy units using Enbridge Gas Inc 2022 Gas Composition and High Heating Value Data. [Enbridge Gas 2022 Gas Composition and High Heating Value Data PDF](#)

⁶ Environment and Climate Change Canada. 2023. National Inventory Report. Tables A6.1-1 and A6.1-3. [En81-4-2021-2-eng.pdf \(publications.gc.ca\)](#).

⁷ As converted to energy units using Enbridge Gas Inc 2022 Gas Composition and High Heating Value Data. [Enbridge Gas 2022 Gas Composition and High Heating Value Data PDF](#).

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1

Question(s):

- a) Is the price of gas and/or the incentives available for electric heat pumps impacting the customer attachments in community expansion projects? Please explain the answer.
- b) To help us explore the question in (a), please complete the following tables and prepare a chart for each showing the trendline. For the second table, please divide the annual forecast by 12 to generate a monthly forecast figure.

Customer Attachments in Community Expansion Locations by Month				
	Jan 2020	Feb 2020	...	Dec 2022
Number of customer attachments				

Customer Attachments in Community Expansion Locations by Month Percent of Forecast				
	Jan 2020	Feb 2020	...	Dec 2022
Number of customer attachments as % of forecast				

Response:

- a) Enbridge Gas has not completed any studies or analyses on the topics in question. The Project-specific attachment forecast is based on the energy interests expressed by actual residents and business owners residing/located within the Project area, which intrinsically incorporates all factors, including financial and non-financial considerations. The Company has no reason to believe that the attachment forecast is inaccurate.

- b) Please see Attachment 1 to this response. Please note:
- a. The Company forecasts and tracks actual attachments by year and not by month. As such, the Company has provided the requested information in an annual format and not a monthly format. The Company cautions against the approach of dividing the annual attachment forecast by 12 to illustrate trends for the purposes described by ED in the interrogatory.
 - b. The Company cautions against making conclusions based on selective factors such as those described by ED in the interrogatory. There are a several factors that can impact actual attachment rates, including but not limited to:
 - i. Government-imposed lockdowns on construction activities due to the COVID-19 pandemic; and,
 - ii. Supply chain constraints caused by geo-political conflicts and the COVID-19 pandemic, impacting the cost and availability of input materials for both Enbridge Gas and home construction activities.
 - c. In some cases, lower attachments rates in later years can be driven by more customers attaching to the natural gas system in earlier years than forecasted (for example see Milverton and Rostock/Wartburg, Prince Township, and Fenelon Falls in Attachment 1). This early attachment activity can be an indication of high customer interest in attaching to the natural gas system, rather than an indication of a declining trend in interest.
 - d. For the purposes of the figures provided in Attachment 1 to this response, “actual attachment” is defined as a customer that is consuming natural gas, as opposed to a customer with a meter that is installed but not yet consuming natural gas.

Comparison of Forecasted and Actual Customer Attachments

Milverton and Rostock/Wartburg (exceeded 10 yr customer Forecast)							
Forecast Customer Attachments (#/yr)	2017	2018	2019	2020	2021	2022	2023
	0	185	163	67	51	42	50
Actual Customer Attachments (#/yr)	23	296	133	125	61	31	48
Number of Actual Customer Attachments as % of Forecast	N/A	160.0%	81.6%	186.6%	119.6%	73.8%	96.0%
Kettle and Stoney Point First Nation and Lambton Shores							
Forecast Customer Attachments (#/yr)	2017	2018	2019	2020	2021	2022	2023
	158	68	86	18	14	17	15
Actual Customer Attachments (#/yr)	9	171	27	44	31	12	6
Number of Actual Customer Attachments as % of Forecast	5.7%	251.5%	31.4%	244.4%	221.4%	70.6%	40.0%
Moraviantown First Nation (exceeded 10 yr customer Forecast)							
Forecast Customer Attachments (#/yr)	2018	2019	2020	2021	2022	2023	
	23	5	2	2	1	0	
Actual Customer Attachments (#/yr)	21	11	2	4	1	0	
Number of Actual Customer Attachments as % of Forecast	91%	220%	100%	200%	100%	N/A	
Prince Township (met the 10 yr customer Forecast)							
Forecast Customer Attachments (#/yr)	2018	2019	2020	2021	2022	2023	
	76	68	26	19	15	19	
Actual Customer Attachments (#/yr)	113	47	34	14	8	7	
Number of Actual Customer Attachments as % of Forecast	149%	69%	131%	74%	53%	37%	
Fenelon Falls							
Forecast Customer Attachments (#/yr)	2018	2019	2020	2021	2022	2023	
	0	123	344	383	307	216	
Actual Customer Attachments (#/yr)	15	364	272	80	63	102	
Number of Actual Customer Attachments as % of Forecast	N/A	296%	79%	21%	21%	47%	
Chippewa of the Thames First Nation (exceeded 10 yr customer Forecast)							
Forecast Customer Attachments (#/yr)	2019	2020	2021	2022	2023		
	19	18	1	1	0		
Actual Customer Attachments (#/yr)	23	13	5	6	0		
Number of Actual Customer Attachments as % of Forecast	121%	72%	500%	600%	N/A		
Saugeen First Nation							
Forecast Customer Attachments (#/yr)	2020	2021	2022	2023			
	30	27	8	6			
Actual Customer Attachments (#/yr)	14	10	5	5			
Number of Actual Customer Attachments as % of Forecast	47%	37%	63%	83%			
Northshore and Peninsula Rd (exceeded 10 yr customer Forecast)							
Forecast Customer Attachments (#/yr)	2020	2021	2022	2023			
	36	32	14	9			
Actual Customer Attachments (#/yr)	42	78	27	9			
Number of Actual Customer Attachments as % of Forecast	117%	244%	193%	100%			
Scugog Island First Nation							
Forecast Customer Attachments (#/yr)	2020	2021	2022	2023			
	79	211	207	110			
Actual Customer Attachments (#/yr)	29	280	120	66			
Number of Actual Customer Attachments as % of Forecast	37%	133%	58%	60%			
Brunner (Perth East)							
Forecast Customer Attachments (#/yr)	2022	2023					
	11	13					
Actual Customer Attachments (#/yr)	35	5					
Number of Actual Customer Attachments as % of Forecast	318%	38%					
Burk's Falls							
Forecast Customer Attachments (#/yr)	2022	2023					
	12	14					
Actual Customer Attachments (#/yr)	3	8					
Number of Actual Customer Attachments as % of Forecast	25%	57%					
Kenora District (Highway 594)							
Forecast Customer Attachments (#/yr)	2022	2023					
	9	8					
Actual Customer Attachments (#/yr)	16	10					
Number of Actual Customer Attachments as % of Forecast	178%	125%					
Stanley's Olde Maple Farms							
Forecast Customer Attachments (#/yr)	2022	2023					
	4	4					
Actual Customer Attachments (#/yr)	10	2					
Number of Actual Customer Attachments as % of Forecast	250%	50%					
Halidmand Shores							
Forecast Customer Attachments (#/yr)	2022	2023					
	30	27					
Actual Customer Attachments (#/yr)	0	56					
Number of Actual Customer Attachments as % of Forecast	0%	207%					
TOTAL							
Forecast Customer Attachments (#/yr)	2017	2018	2019	2020	2021	2022	2023
	158	352	464	620	740	678	491
Actual Customer Attachments (#/yr)	32	616	605	575	563	337	324
Number of Actual Customer Attachments as % of Forecast	20%	175%	130%	93%	76%	50%	66%

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1

Question(s):

- a) What is the annual average consumption (m³) and annual average distribution revenue (\$) per residential customer assumed by Enbridge in this proceeding?
- b) What is the annual average consumption (m³) and annual average distribution revenue (\$) per residential customer being realized by Enbridge in its other community expansion projects? Please provide all underlying calculations. If possible, please make an adjustment for customers attaching mid-year.

Response:

- a) The weighted average consumption and annual distribution revenue for a residential customer within the Sandford Project scope is included in Attachment 1 to Exhibit I.ED-25.
- b) The analysis set out in Attachment 1 to this response was completed by taking the sum of all monthly consumption and distribution revenue data for all residential customers attached to in-service NGEP Phase 1 and 2 projects (across all rate zones) and dividing by the total number of bills (or data points) to derive a single monthly average per customer. The summation of the monthly averages was then taken to derive an average annual consumption and distribution revenue total.

Based on the analysis completed, the annual average consumption for a residential customer is 2,354 m³/year and the annual average distribution revenue for a residential customer is \$465.

Assumptions and Notes:

- Consumption and revenue data for cycles of 27 to 33 days were used. Shorter consumption cycles were omitted as they would not be fully representative of an average month.

- Consumption values of zero were removed to eliminate customers that have not yet started consuming gas (duration between install and HVAC unlock).
- The sample of projects relied upon includes variable quantities/quality of data from past NGEF projects across the Company's service territory. The quantity of attachment data available for each project varies depending on the size of the project and the in-service date. Therefore, calculated averages are weighted more heavily towards projects with more data points.

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Please see Exhibit I.ED-39 Attachment 1.xlsx on the OEB's RDS

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1

Question(s):

- a) Please reproduce the table provided in EB-2022-0200, Exhibit JT3.16, adding rows to show: the average revised forecast PI (weighted by final cost) and the total of column xi (shortfall).
- b) Please explain the reasons for the shortfalls in the Fenelon Falls and Scugog Island projects.

Response:

- a) Please see Attachment 1 to this response for EB-2022-0200, Exhibit JT3.16, which includes the table requested by ED. The weighted average revised forecast PI is 0.63.¹ The total shortfall for projects with a revised forecast PI of less than 1.0 is \$44,904,484. Enbridge Gas cautions against drawing conclusions regarding the Project using selective information from other projects. Each project is unique with various considerations that may not apply to other projects.
- b) The reasons for shortfalls in Fenelon Falls and Scugog Island Community Expansion projects are explained as follows:

- i) Fenelon Falls

- Complexity of Construction:

While the original project estimate was prepared with the best information available at the time, the cost of construction proved to be significantly higher, mainly driven by encountering significantly more rocks than originally anticipated, driving up the project cost for both mains and services.

¹ The average revised forecast PI (weighted by final cost) includes the projects that are considered in-service.

- Labour and Construction:

Final Labour and Construction costs were higher than originally estimated, due to: (i) changes to methods of construction; (ii) unanticipated Ministry of Transportation (MTO) permit requirements to cross the MTO highway at a deeper level than anticipated at all of the tie-in locations for the Sunderland Reinforcement work; (iii) an additional main was added as a result of the MTO permit requirement and the Regional Conservation Authority within the distribution system (non-LTC portion of the project); (iv) additional odorization requirements not included in original control budget; and (v) increased cost for upsizing of 1.5 km of Nominal Pipe Size (NPS) 4 steel (ST) to NPS 6 ST to feed a large commercial customer.

- Additional External Costs:

Final External Costs were higher than originally estimated, due to: (i) additional geotechnical and hydrogeological work; (ii) external pipeline inspection; and (iii) land/easement challenges which required the project team to lay extra mains and easements to work around the areas in question.

ii) Scugog Island First Nation

- Inflation:

Project estimates were forecast and filed with the OEB in December 2017. Construction of the Project was not completed until July 6, 2020, resulting in overall increased costs due to inflation.

- Complexity of Construction:

While the original project estimate was prepared with the best information available at the time, the cost of construction proved to be significantly higher, mainly driven by changes in the design and permitting stage requirements.

- Labour and Construction:

Final Labour and Construction costs were higher than originally estimated, due to: (i) changes to methods of construction; (ii) unanticipated MTO permit requirements and related permit delays; (iii) the requirement to construct during the winter season; and (iv) the unprecedented and ongoing COVID-19 pandemic.

- Additional External Costs:

Final External Costs were higher than originally estimated, due to: (i) additional geotechnical and hydrogeological work; (ii) external pipeline inspection; and (iii) pipeline conditioning, driven by the permitting delays and new required conditions.

ENBRIDGE GAS INC.

Answer to Undertaking from
School Energy Coalition (SEC)

Undertaking

Tr: 78

Subject to data availability, to provide responses to the portions of SEC-119(a) that were previously declined

Response:

The requested information is unavailable in some instances and, in others, will require an onerous amount of data extraction that is not possible to complete within the timeframe provided for undertaking responses.

Further, as indicated in the response at Exhibit I.1.12-FRPO-21, certain information requested by SEC bears no relevance to the current Application because Enbridge Gas has not included any forecasted capital costs or revenue requirement adjustments associated with actual attachments to date for its community expansion projects in its proposed 2024 rate base; only the original forecast project costs have been included.

Enbridge Gas will report on the actual capital costs, actual customer attachments, and final project PI through future rebasing applications, following completion of the 10-year rate stabilization period(s) (RSP) and attachment forecast term(s) associated with each community expansion project, in accordance with the OEB's determinations in prior applications, including the Company's SES/TCS/HAF Application¹.

Updated Response:

Pursuant to Enbridge Gas's letter dated April 11, 2023, in relation to Motions Day, please see below for the information sought in Exhibit I.2.6-SEC199 a)/Undertaking Exhibit JT3.16.

Table 1 summarizes the requested information for Community Expansion projects in execution to date. Additional information is available in Attachment 1 for all Community Expansion projects to date.

¹ EB-2020-0094, Decision and Order, November 5, 2020, sections 3.2 and 3.3.

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 Plus Attachment
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Table 1

(i) Project Name	(ii) Budgeted Capital Cost (\$)(1)	(iii) Forecast Cost (\$)(2)	(iv) Actual Capital Cost-to-date (\$)	(v) Forecast Final Capital Cost (\$)(3)	(vi) 10-year Forecast Customer Attachments (Total)(4)	(vii) Actual Customer attachments to date (Total)(4)	(viii) Original Forecast PI	(ix) Revised Forecast PI (based on most recent forecast cost)	(x) SES Term	(xi) Shortfall if the current Forecast PI is less than 1.0 \$(5)
Milverton and Rostock/Wartburg	5,976,000	5,976,000	7,008,147	9,117,941	739	761	1.01	1.14	15	
Kettle and Stoney Point First Nation and Lambton Shores	2,095,000	2,095,000	2,097,092	2,884,545	364	394	1.03	0.90	12	328,155
Delaware Nation of Moraviantown	564,000	564,000	\$628,615	628,615	38	38	1.00	1.25	40	-
Prince Township	2,721,000	2,721,000	2,427,968	2,765,254	291	224	1.01	1.06	22	-
Fenelon Falls	46,878,981	46,878,981	55,493,796	64,425,880	1920	866	1.00	0.50	40	28,667,344
Chippewa of the Thames First Nation	1,863,000	1,863,000	1,169,065	1,244,199	45	49	1.00	1.00 (6)	40	
Saugeen First Nation	2,536,617	2,536,617	3,069,824	3,571,108	89	33	1.00	0.47	40	1,036,969
Northshore and Peninsula Rd	10,095,411	10,095,411	12,057,826	12,156,459	134	161	1.00	0.64	40	1,355,698
Scugog Island First Nation	16,550,837	16,550,837	27,714,665	32,177,771	810	454	1.00	0.52	40	12,896,120
Brunner (Perth East)	2,210,351	1,293,836	1,019,042	1,050,898	44	42	1.00	2.98	40	-
Burk's Falls	1,653,917	1,653,917	1,160,701	1,734,353	41	11	1.00	0.96	40	19,929
Kenora District (Highway 594)	1,551,582	1,551,582	1,785,436	1,803,174	30	35	1.00	0.55	40	448,867
Stanley's Olde Maple	820,779	820,779	830,674	838,714	11	12	1.00	0.78	40	118,874

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 Plus Attachment
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Table 1 Continued

(i) Project Name	(ii) Budgeted Capital Cost (\$)(1)	(iii) Forecast Cost (\$)(2)	(iv) Actual Capital Cost-to-date (\$)	(v) Forecast Final Capital Cost (\$)(3)	(vi) 10-year Forecast Customer Attachments (Total)(4)	(vii) Actual Customer attachments to date (Total)(4)	(viii) Original Forecast PI	(ix) Revised Forecast PI (based on most recent forecast cost)	(x) SES Term	(xi) Shortfall if the current Forecast PI is less than 1.0 (\$)(5)
Haldimand Shores	4,048,709	4,048,709	3,261,207	4,281,580	112	59	1.00	0.98	40	32,528
Mohawk of Bay of Quinte	10,715,495	10,715,495	-	10,715,495	179	-	1.00	-	40	-
Hidden Valley	3,463,661	3,339,388	-	3,339,388	110	-	1.00	-	40	-
Selwyn	6,041,151	4,502,425	-	4,502,425	87	-	1.00	-	40	-

Notes:

- (1) The budgeted cost is based on the original estimated capex for the project
- (2) The forecast cost is based on updated estimated capex (e.g., LTC filed project cost if applicable)
- (3) The forecast final capital cost is based on the projected number of attachments. Attachments numbers are subject to change in the remaining year during the 10-year rate stability period
- (4) The annual forecast and actuals customer attachments are provided in Attachment I
- (5) for part (xi), the shortfall amount is based on the additional capital funding required and not the required revenue forecast shortfall to achieve a PI of 1.0
- (6) The PI cannot be calculated as the current projected final capital cost is lower than the available funding of \$1,430,000. However, the rate stability period has yet to be concluded, and additional customers might be attached, which might drive the final cost to exceed the available funding.

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Enbridge Gas will report on the actual capital costs, actual customer attachments, and final project PI through future rebasing applications, following the completion of the 10-year rate stabilization period(s) (RSP) and attachment forecast term(s) associated with each community expansion project, in accordance with the OEB's determinations in prior applications, including the Company's SES/TCS/HAF Application².

Enbridge Gas cautions against making conclusions based on the information provided before completing the 10-year rate stabilization period associated with each community expansion project.

² EB-2020-0094, Decision and Order, November 5, 2020, sections 3.2 and 3.3.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1

Question(s):

- a) With respect to the revenue generated in the first 10 years, does Enbridge or do ratepayers bear the risk of average use being lower than forecast?
- b) With respect to the revenue generated in the final 30 years, does Enbridge or do ratepayers bear the risk of average use being lower than forecast?
- c) Please describe how regulatory adjustments relating to average use interact with the customers attached through community expansions. Please address both the first 10 years and final 30 years

Response:

a) – c)

Consistent with the Company's commitments and the OEB's direction summarized in the OEB's Decision and Order on the Company's application for a System Expansion Surcharge, Temporary Connection Surcharge, and Hourly Allocation Factor (EB-2020-0094),¹ upon placing the Project into service, Enbridge Gas will apply a 10-year rate stability period (RSP) during which the Company will bear the risk of the Project attachment and revenue shortfall including average use being lower than forecast for community expansion projects. Enbridge Gas will file actual costs and revenues of the Project with the OEB for consideration for inclusion in rates in the rebasing application following the conclusion of the RSP. The OEB will consider any questions about the treatment of any revenue surplus or shortfall beyond the RSP at that time.²

Rate adjustments related to average use are made to distribution rates to reflect changes in weather normalized average use.³

¹ EB-2020-0094 OEB Decision and Order (November 5, 2020), pp. 8-10.

² Ibid.

³ Rate adjustments for average use are made as part of the annual incentive regulation rate change application.

Average use adjustments are made to all rate class forecast volumes at the general service rate class level and are subject to OEB review and approval.

Customers attached through community expansion projects are charged the distribution rates in effect for the corresponding rate zone and rate class where the community expansion project is located. Community expansion customers are also charged the system expansion surcharge (SES) in addition to the distribution rates. The SES revenue forecast is not subject to the average use adjustment as part of the annual rate change application.

No different assumption for rate adjustments relating to average use is made during the 40-year project term. Therefore, ratepayers bear the risk/reward of variances in average use related to distribution rates. Enbridge Gas bears the risk/reward of variances in average use related to the SES revenue forecast.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1

Question(s):

- a) Please indicate how much revenue would need to be collected from customers over the final 30 years of this project to cover outstanding capital costs and ongoing O&M costs. Please provide all underlying calculations.
- b) Please complete the following table:

Required Revenue per Project Discounted Cash Flow Tables	
(\$,000)	
SES Revenue	
Distribution Revenue	
Total Revenue	
Years 11-40	
SES Revenue	
Years 11-40 Distribution Revenue	
Years 11-40 Revenue	
Percent of revenue in years 11-40	

Response:

- a) The combined System Expansion Surcharge (SES) and distribution revenue required to be collected over the final 30 years of the proposed Project to cover outstanding capital costs and ongoing O&M costs is \$7,029,226.
- b) Please see the information provided below.

Required Revenue per Project Discounted Cash Flow Tables	
(\$,000)	
SES Revenue	\$4,958
Distribution Revenue	\$3,670
Total Revenue	\$8,628
Years 11-40	
SES Revenue	\$4,038
Years 11-40 Distribution Revenue	\$2,991
Years 11-40 Revenue	\$7,029
Percent of revenue in years 11-40	81.5%

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit E, Tab 1, Schedule 1

Question(s):

- a) Please provide a route map indicating which portions of the pipeline would be on private or public land.
- b) Please provide a map showing the trees that will need to be removed for the pipeline construction.
- c) Please provide satellite images of each portion of the pipe with an overlay showing where the trench will be dug for the pipeline. Please provide this as a high-resolution image so that a viewer can zoom in to see the impact on properties and vegetation along each portion of the pipeline route

Response:

- a) No permanent easement on private land is expected to be required for the proposed pipeline as the preferred route (PR) is entirely within the public road allowance.
- b) Tree removal is not anticipated to be required for the Project. If tree removal is required, Enbridge Gas will obtain all required permits and authorizations prior to commencement of construction.
- c) The proposed pipeline will be constructed by a combination of horizontal directional drill and open cut excavations where applicable. The final detailed pipeline design (including proposed running line) is currently in development as Enbridge Gas continues to gather information from the field studies and consult with the applicable permitting agencies for approval. Therefore, the level of detailed imaging requested by ED is not available at this time.

The Environmental Alignment Sheets provided at Appendix J of the Environmental Report (Exhibit F, Tab 1, Schedule 1, Attachment 1) show the environmental features in the Project Study Area. These are used during the design and construction stages to ensure appropriate mitigation measures are developed and implemented during the execution of the Project to mitigate potential impacts to sensitive features such as species at risk habitat, mature vegetation, and watercourse crossings.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Environmental Defence (ED)

Interrogatory

Reference:

Exhibit I, Tab 1, Schedule 1

Question(s):

- a) Would Enbridge agree to the following condition of approval? If not, please explain why not and provide alternative wording for a commitment that Enbridge would make.

“The Applicant shall provide potential customers with a comparison of the average annual energy costs and lifetime all-in costs of converting to gas versus converting to a cold climate air source heat pump.”

- b) Please provide a copy of:
- i. All promotional or informational materials sent to customers in community expansion areas that have connected to the gas system in the past three years, including materials sent by mail, email, or social media;
 - ii. A copy of all newspaper and online advertisements relating to switching to gas in the past three years; and
 - iii. A copy of all Enbridge website pages relating to switching to gas.
- c) For the items in (b) that are undated, please indicate the date range during which they were sent to customers or published.
- d) Please provide a copy of all Enbridge communication plans or communication strategy documents relating to community expansions or switching to gas more generally.

Response:

- a) No.

Enbridge Gas provides information (including conversion cost information) to consumers regarding conversion to natural gas. Enbridge Gas should not be

required to provide information to consumers regarding conversion to non-natural gas energy solutions (e.g., electricity, oil, propane). Enbridge Gas does not have expertise in these non-natural gas energy solutions, and providing consumers with cost information regarding conversions to high-efficiency electric cold climate air source heat pumps (which is the basis for ED's request) is not relevant to Enbridge Gas's natural gas leave to construct Application, as the Company has no ability to cause consumers to convert to those solutions via the Applications. In addition, providing consumers with information related to conversions to non-natural gas energy solutions without consideration of those energy solutions' supply-side requirements and implications would not be appropriate or valuable. Regarding natural gas solutions, the Company's natural gas community expansion applications contemplate all OEB-established natural gas supply-side requirements for leave to construct, including natural gas project costs, natural gas project economics, environmental impacts, land impacts, and Indigenous consultations.

b) - c)

Please see Attachment 1 to this response.

The Sanford Community Expansion Project website is active and was launched in May 2023.

The Social Media Ad for the Sanford Virtual Information Session was live from March 20 to April 2, 2023.

The Customer Attachment Package for Sanford was provided to 9 residents on Ball Road in May 2023 as part of a targeted Expression of Interest campaign. Please see the response to Exhibit I.STAFF-1 part b) for more information.

Customer outreach activities are scheduled to begin in Q1 2024.

d) Please see Attachment 2 to this response.

Marketing Tactics - Community Expansion			
Marketing Tactics By Community	Launch In-Market Date	See Reference	Attachment #
Community Expansion Main Website		https://www.enbridgegas.com/residential/new-customers/community-expansion	
Scugog			
Website Link		https://www.enbridgegas.com/residential/new-customers/community-expansion/scugog-island	
Customer Attachment Packages	Feb 2021 Aug 2021 Sept 2021	Hidden Valley Community Expansion Project - Customer Attachment Packages - All Documents (sharepoint.com)	1
Rink Boards (2)	Jan 4 2021 - Jan 2 2022	Scugog Rink Advertising.pdf (sharepoint.com)	2
Transit Shelter Ads	Jan-Mar 2021	Hidden Valley Community Expansion Project - Scugog Transit Shelter Ad.pdf - All Documents (sharepoint.com)	3
Community Expansion Construction Trailer Wraps	Oct 2021 - Present	Hidden Valley Community Expansion Project - Community Trailers.pdf - All Documents (sharepoint.com)	4
Digital/Social Media Ads	Jan 11 - Dec 10 2021	Hidden Valley Community Expansion Project - Scugog Digital Ads.pdf - All Documents (sharepoint.com)	5
Virtual Open House Digital Ad	Mar-21	Hidden Valley Community Expansion Project - Scugog Virtual Open House Social Ad.pdf - All Documents (sharepoint.com)	6
System Expansion Explainer Video	Mar 2021- Oct 2021	https://youtu.be/HICJJUMVJmc	
Newspaper Advertising The Port Perry Standard The Port Perry Star	Jan 4 - Nov 1 2021	Hidden Valley Community Expansion Project - Scugog Newspaper Ads.pdf - All Documents (sharepoint.com)	7
North Bay			
Website Link		https://www.enbridgegas.com/residential/new-customers/community-expansion/north-bay-north-shore-peninsula-roads	
Customer Attachment Packages	Sep-21	Hidden Valley Community Expansion Project - North Bay Attachment Package.pdf - All Documents (sharepoint.com)	8
Digital/Social Media Ads	Jan 11 - Dec 10 2021	Hidden Valley Community Expansion Project - North Bay Digital Ads.pdf - All Documents (sharepoint.com)	9
Virtual Open House	Mar-21	Hidden Valley Community Expansion Project - North Bay Virtual Open House.pdf - All Documents (sharepoint.com)	10
Transit Shelter Ads	Jan / Feb 2021	Hidden Valley Community Expansion Project - North Bay Transit Ad.JPG - All Documents (sharepoint.com)	11
Newspaper Advertising The Bay and Area	May 2021 Oct 2021 Dec 2021	Hidden Valley Community Expansion Project - North Bay Newspaper Ads.pdf - All Documents (sharepoint.com)	12
Fenelon Falls			
Website Link		https://www.enbridgegas.com/residential/new-customers/community-expansion/fenelon-falls	
Rink Boards (1)	Jan 4 - Jan 2, 2022	Fenelon Falls Rink Advertising.pdf (sharepoint.com)	13
Saugeen			
Website Link		https://www.enbridgegas.com/residential/new-customers/community-expansion/saugeen-first-nation	
Social Ad for band owned social media account	Nov-21	Hidden Valley Community Expansion Project - Saugeen Digital Ad.pdf - All Documents (sharepoint.com)	14
Direct Mail Fridge Magnet (for 2022)	Oct-21	Hidden Valley Community Expansion Project - Saugeen Fridge Magnet.pdf - All Documents (sharepoint.com)	15
Selwyn			
Website Link		https://www.enbridgegas.com/residential/new-customers/community-expansion/Selwyn	
Kiosk Assets	May-22	Selwyn May 2022 Kiosk & D2D Dropoff	16
Kiosk Assets	Oct-22	Selwyn October 2022 Kiosk & D2D Dropoff	17
Customer Attachment Package	Apr-22	Customer Attachment Package	18
Q4 Campaign Tactics	Oct-22	Selwyn Q4 2022 Campaign	19
Kiosk Assets	Feb-23	Selwyn February 2023 Kiosk & D2D Dropoff	20
MBQ			
Website Link		https://www.enbridgegas.com/residential/new-customers/community-expansion/mohawks-bay-quinte	
Open House Assets	May-22	MBQ May 2022 Open House	21
Kiosk and D2D Dropoff assets	Jan-23	MBQ January 2023 Kiosk & D2D Dropoff	22
Customer Attachment Package	Jan-23	Customer Attachment Package	23
Kiosk and D2D Dropoff assets	Apr-23	MBQ April 2023 Kiosk & D2D Dropoff	24
Hidden Valley			
Website Link		https://www.enbridgegas.com/residential/new-customers/community-expansion/hidden-valley_	
Virtual Open House	Jun-22	Hidden Valley VOH 2022	25
Customer Attachment Package	Oct-22	Customer Attachment Package	26
Kiosk Assets	Oct-22	Hidden Valley October 2022 Kiosk & D2D Dropoff	27
Kiosk Assets	Feb-23	Hidden Valley February 2023 Kiosk & D2D Dropoff	28
Bobcaygeon			
Website Link		https://www.enbridgegas.com/residential/new-customers/community-expansion/bobcaygeonproject	
Information Session Ad	Nov-22	Information Session Ad - Kiawartha This Week	29
Customer Attachment Package	Nov-22 to Jan-23	Customer Attachment Package	30
Digital/Social Media Ads	Dec-22 to Jan-23	Digital/Social Media Ads	31
SES Video	Dec-22 to Jan-23	https://www.youtube.com/watch?v=HwByXzEt4TI	
SES Video	Dec-22 to Jan-23	https://www.youtube.com/watch?v=HICJJUMVJmc	
Testimonial Video	Dec-22 to Jan-23	https://youtu.be/0r7M9yVQNps	
Testimonial Video	Dec-22 to Jan-23	https://youtu.be/HnzQ0z6yb5Y	
Testimonial Video	Dec-22 to Jan-23	https://youtu.be/YyMwrbFJ3s	
Testimonial Video	Dec-22 to Jan-23	https://youtu.be/LFaRIUtna90	
Kiosk Assets	Jan-23	Kiosk Flyer	32
Community Expansion Construction Trailer Wrap	Mar-23 to Pres.	Trailer Wrap	33
Sandford			
Website Link	May 2023 - present	Sandford Community Expansion Project Enbridge Gas	
Social Media Ad for Virtual Information Session	Mar 20 - Apr 2, 2023	See Attachment	34
Customer Attachment Package	May-23	See Attachment	35



Scugog Attachment Package

February 2021



We're proud to energize Scugog Island!

Dear Scugog Island Resident,

Now's the time to apply for natural gas

We have some good news to share with you. Your address is identified as in scope for receiving natural gas shortly, and we want to make sure you're in the best position to connect as soon as possible. By signing up now, we'll be able to prioritize your service install as soon as the natural gas main is installed in front of your house. You may see us working on your street, including items such as survey stakes or locates and survey stakes in the boulevard.

If you're considering converting to natural gas, the earlier you apply the better as permits and locates can take time.

Refer to the Four-Step Process card when you're ready to apply, then visit savewithgas.com to start your application. You're required to agree to the Terms and Conditions and can do this electronically, or you can complete and return your signed Terms and Conditions form in the prepaid envelope provided.

Unlock the value of natural gas

When compared to using electricity, propane or oil, switching to natural gas could save you up to 39%* per year on home and water heating costs. Natural gas is also the most affordable way to run appliances like ranges, clothes dryers and barbecues.

For us to extend natural gas to rural areas where the cost of building the infrastructure is more expensive than the revenue it generates, the Ontario Energy Board approved an additional System Expansion Surcharge or SES. This is a variable rate charge, of \$0.23/cubic meter of natural gas used, which will show as a separate line item on your monthly bill for up to 40 years. On average, this amounts to approximately \$550 a year. Even with the SES, you'll still save on home and water heating fuel costs by switching to natural gas. To estimate your potential fuel savings based on your circumstances or find valuable information to help make an informed decision for your household, visit www.savewithgas.com.

Get in touch with us

Our local Community Expansion Advisors are just a phone call away. You can reach out to them to talk about the steps to connect to natural gas, learn more about the value of natural gas, and estimate the potential savings for your home or business. They will provide you with sound information to help you determine if switching to natural gas is right for you.

- Don Armitage 705-750-7203 don.armitage@enbridge.com
- Travis James 289-971-0813 travis.james@enbridge.com

We look forward to meeting your energy needs.

Ahmed Al-Amry

Ahmed Al-Amry
Supervisor, Community Expansion
Enbridge Gas Inc.
savewithgas@enbridge.com
savewithgas.com

*Natural gas prices are based on Rate1 rates in effect as of Jan 1, 2021 and includes the \$0.23 per m3 system expansion surcharge. Oil price is based on the latest available retail price. Electricity rates-based Hydro One Distribution rates (Mid-density R1) as of Nov 1, 2020 and RPP customers that are on TOU pricing. It includes the new Ontario Electricity Rebate (OER) and excludes distribution charges per First Nations Delivery Credit. The propane price comparison is based on the lowest price obtained in an area survey. Since individual fuel prices may vary, savings assumptions may or may not be accurate in your situation. Please go to the calculator on savewithgas.com for a more accurate savings estimate. Costs have been calculated for the equivalent energy consumed and include all service, delivery and energy charges. Carbon price is included for all energy types as reported. HST is not included.



Investing in Indigenous communities

Working together to create meaningful relationships and lasting prosperity

Enbridge adheres to a strong set of corporate values, and has adopted and implemented a number of corporate responsibility policies and practices. Our Indigenous Peoples Policy guides the nature and scope of our relationships with Indigenous peoples wherever we interact together.

- Serving 21 Indigenous communities across Ontario.
- \$33M in contracts to Indigenous suppliers, vendors and contractors.
- Support for Skills Canada Ontario First Nations, Métis and Inuit Initiatives since 2012.



Energizing the local business community

Access to a more affordable, reliable and plentiful source of energy is a major competitive advantage for both large and small businesses. Connecting to natural gas will help expand critical infrastructure and drive economic development within the community.

Low-cost natural gas delivers approximately \$5 billion in annual savings to Ontario families, businesses and industry—savings that are reinvested into the economy.



We're here for you

Customer Connections Call before you dig
1-877-362-7434 **1-800-400-2255**

Monday to Friday, 24/7 Emergency line
 8 a.m. – 6 p.m. **1-866-763-5427**

Community expansion contacts

Don Armitage
705-750-7203
don.armitage@enbridge.com

Travis James
289-971-0813
travis.james@enbridge.com



* Natural gas price is based on Rate 1 rates in effect as of **Jan. 1, 2021** and includes the \$0.23 per m3 system expansion surcharge. Oil and propane prices are based on the latest available retail prices. Electricity rates based Hydro One Distribution rates (Mid-density R1) as of **Nov. 1, 2020** and RPP customers that are on TOU pricing. It includes the new Ontario Electricity Rebate (OER). Costs have been calculated for the equivalent energy consumed and include all service, delivery and energy charges. Carbon price is included for all energy types as reported. HST is not included.

** Subject to change. Please note that all charges, except the fixed Customer Charge, vary based on how much gas you use.

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Switch to safe, reliable, affordable natural gas

Energizing your community

Why natural gas is a smart choice



We understand that these are extraordinary times – around the world and at home here in Ontario. Community Expansion work has been identified as an essential service by the Ontario Government. Enbridge Gas is committed to bringing natural gas to your community and we are following the latest guidance provided by public health officials and government authorities. The safety of our customers, employees and contractors is our top priority. Visit savewithgas.com for Community Expansion project updates.

The benefits of natural gas



More affordable

Compared to other fuels and electricity, natural gas is the most cost-effective way to heat your home and water.



Reliable and abundant

Never worry about running out of fuel or arranging for deliveries again.

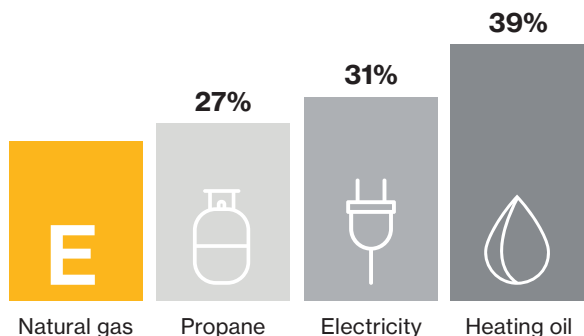


Comfort and convenience

From heating your home and hot water, to cooking, natural gas can make your home more comfortable and enjoyable.

Residential annual heating bills

Annual cost comparison: space and water heating*



How to start saving with natural gas

Visit savewithgas.com to learn about the benefits of natural gas and the many ways it can help fuel your lifestyle. Follow these four easy steps to get connected. It's always better to submit your application for a natural gas service early in the process since it can take several months to obtain the necessary locates and permits before installing the service itself.



1 Visit savewithgas.com

Go online to savewithgas.com to express your interest in natural gas by clicking the "Sign up" button to agree to the Terms and Conditions.



2 Talk to your local heating contractor

Advise your heating contractor that you've agreed to the Terms and Conditions.

Your contractor will submit the natural gas service application on your behalf.

Once both are complete, our office will be in touch with you to confirm timing.

Our construction department will contact you to schedule a meeting to locate and mark all existing underground services.



3 After we install the gas meter

Contact your contractor to arrange for the installation/conversion of your natural gas equipment.



4 The final step

Contact 1-877-363-7434 at least 48 hours in advance to arrange your meter activation and final inspection of the natural gas equipment.

Where does your money go?

Here's a helpful explanation of the items on a natural gas bill

System Expansion Surcharge

It takes significant investment to build the infrastructure to bring natural gas to your community. This surcharge is your contribution, and the fairest way to spread the costs out.

Customer Charge

This is a fixed \$21.48* amount that pays for meter reading, equipment maintenance and 24/7 emergency response services and community expansion.

Supply, Delivery and Transportation Charges

These cover the costs to buy natural gas, bring it to Ontario and move it to your home, safely and reliably.

Cost Adjustment

You pay what we pay. As the price for natural gas changes, we'll adjust your bill quarterly as a charge or credit.

FAQ

1. As a new community expansion customer, why do I have to pay an additional charge towards the construction costs of the project?

2. Why does the length of time the surcharge is in effect differ by community?

To enable us to extend natural gas to rural areas where the cost of building the infrastructure is more expensive than the revenue it generates, the province's energy regulator—the Ontario Energy Board—has approved an additional new customer charge of 23 cents for each cubic metre of natural gas used for a limited time period. On average, most homes will pay \$550 a year for up to 40 years. The length of time this charge remains in effect varies by community because the overall cost to serve each community differs based on things like the distance of the community from an existing natural gas pipeline. Even with this added charge, you'll still save on home and water heating fuel costs by switching to natural gas.

How to start saving with natural gas

Safe. Reliable. Affordable. Abundant.

1

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Go online to savewithgas.com to express your interest in natural gas by clicking the “Sign up” button to agree to the Terms and Conditions.

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The final step

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If you have any questions, please reach out to one of our Community Expansion advisors listed below.

Enbridge Gas Contacts

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705-750-7203

don.armitage@enbridge.com

Travis James

289-971-0813

travis.james@enbridge.com



Visit **savewithgas.com**
for information about the
benefits of natural gas and
the many ways it can help fuel
your lifestyle.



IMPORTANT

Do not disconnect your existing fuel source or remove any equipment until your new natural gas service and gas meter have been installed.







Easy tips for energy savings

Here are some simple ways to save energy, keep your costs down and still stay comfortable.

Spring/summer checklist

- Set your thermostat at a temperature you find comfortable.** Raise the temperature a few degrees higher when you're asleep or away.
- Keep window coverings closed** during the hottest hours. Open windows at night.
- Regularly change or clean the filters** on your air conditioner.
- Regularly change or clean your cooling unit's filters** to keep it working efficiently.
- Use your range hood when cooking** to help remove heat from your home.
- Keep your home cooler by cooking on your outdoor grill** instead of your stove or oven.
- If possible, **air-dry clothes** outdoors to save energy.
- Remove dust and debris from sliding door tracks** to keep cool air from escaping.
- If you have a pool, **use a solar cover** to retain heat.
- Air-dry dishes** once the dishwasher's wash cycle is complete.

Tips to save year-round

-  Always wait for a full load before running your dishwasher or washing machine.
-  A five-minute shower uses less than half the hot water of a bath.
-  Wash and rinse clothes with cold water to use less energy.
-  Fix dripping faucets – one drop/second for a month equals 16 hot baths!
-  Don't peek in the oven while baking – 20 percent of heat will escape!
-  Caulk around doors and windows to avoid air leaks.

Natural gas is now available in your community

Terms and Conditions for natural gas service—to be completed by the property owner

Natural gas service installation policy

Enbridge Gas will provide and install at no cost, one service line per civic address to new customers provided that:

1. The distance between the Owner's property line and the front wall of house/building is 20 metres or less; and
2. The distance between the front wall of house/building and the selected meter location is 2 metres or less.

Service and meter installation in excess of these distances will result in additional charges of \$32 per metre (plus applicable taxes)*. Call your local heating, ventilation and air conditioning (HVAC) provider for an assessment and to submit an application for gas service.

Enbridge Gas will assess where your HVAC provider has requested the meter and determine where the service can be installed.

System Expansion Surcharge—what to expect

It takes significant investment to build the infrastructure to bring natural gas to your community. The System Expansion Surcharge (Surcharge) provides lower upfront costs to customers by spreading them out over time**.

On average, most homes will pay a Surcharge of about \$550 per year (\$0.23 per cubic metre). The Surcharge is based on the home's consumption and will fluctuate based on the gas consumed.

The cancellation policy

If your natural gas account is not activated within one year of installation of your new natural gas service, you'll be required to pay Enbridge Gas' installation costs of \$2,500.

Name (please print)

Phone number

Email address

Address (please print)

Signature

Date

Questions? We're here for you

Contact our Customer Care team at 1-888-427-8888
customerconnectionscontactcentre@enbridge.com



Please complete this form and email it to
ceapplications@enbridge.com

*First Nation communities are exempt from HST.

**The System Expansion Surcharge will transfer to subsequent owners of your property.



Scugog Attachment Package

August 2021



We're proud to energize Scugog Island!

Dear Scugog Island Resident,

Now's the time to apply for natural gas

We have some good news to share with you. Your address is identified as in scope for receiving natural gas shortly, and we want to make sure you're in the best position to connect as soon as possible. By signing up now, we'll be able to prioritize your service install as soon as the natural gas main is installed in front of your house. You may see us working on your street, including items such as survey stakes or locates and survey stakes in the boulevard.

If you're considering converting to natural gas, the earlier you apply the better as permits and locates can take time.

Refer to the Four-Step Process card when you're ready to apply, then visit enbridgegas.com/savewithgas to start your application. You're required to agree to the Terms and Conditions and can do this electronically at the website above under your community, or you can complete and return your signed Terms and Conditions form by emailing this to us at ceapplications@enbridge.com and once we receive this, we'll be in touch.

Unlock the value of natural gas

When compared to using electricity, propane, or oil, switching to natural gas could save you up to 52%* per year on home and water heating costs. Natural gas is also the most affordable way to run appliances like ranges, clothes dryers, and barbecues.

For us to extend natural gas to rural areas where the cost of building the infrastructure is more expensive than the revenue it generates, the Ontario Energy Board approved an additional Expansion Surcharge or ES. This is a variable rate charge, of \$0.23/cubic meter of natural gas used, which will show as a separate line item on your monthly bill for up to 40 years. On average, this amounts to approximately \$550 a year. Even with the ES, you'll still save on home and water heating fuel costs by switching to natural gas. To estimate your potential fuel savings based on your circumstances or find valuable information to help make an informed decision for your household, visit enbridgegas.com/savewithgas to learn more.

Get in touch with us

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- Travis James 289-971-0813 travis.james@enbridge.com

We look forward to meeting your energy needs.

Ahmed Al-Amry
Supervisor, Community Expansion
Enbridge Gas Inc.
savewithgas@enbridge.com
savewithgas.com

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Investing in Indigenous communities

Working together to create meaningful relationships and lasting prosperity

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- Support for Skills Canada Ontario First Nations, Métis and Inuit Initiatives since 2012.



Energizing the local business community

Access to a more affordable, reliable and plentiful source of energy is a major competitive advantage for both large and small businesses. Connecting to natural gas will help expand critical infrastructure and drive economic development within the community.

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Customer Connections Call before you dig
1-877-362-7434 **1-800-400-2255**

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Community expansion contacts

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705-750-7203
don.armitage@enbridge.com

Randy Whitten
437-228-7296
randy.whitten@enbridge.com



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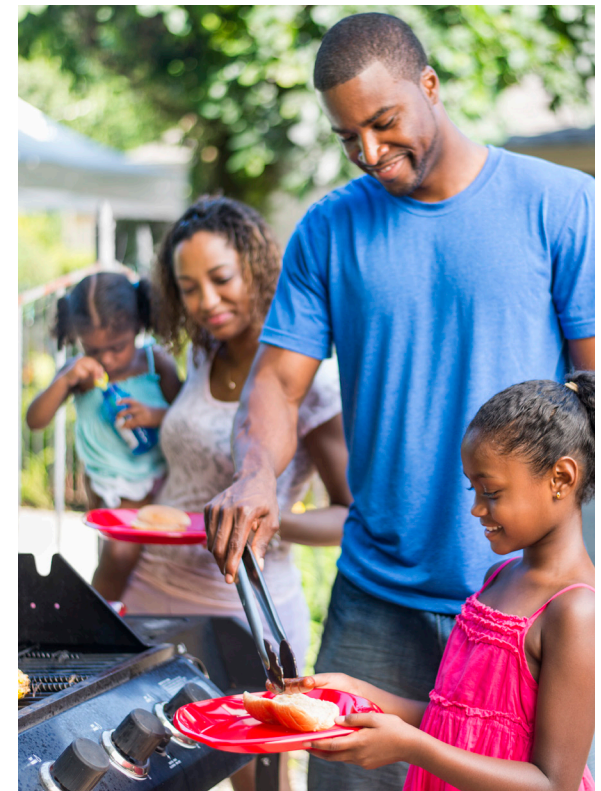
** Subject to change. Please note that all charges, except the fixed Customer Charge, vary based on how much gas you use.

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Switch to safe, reliable, affordable natural gas

Energizing your community

Why natural gas is a smart choice



We understand that these are extraordinary times – around the world and at home here in Ontario. Community Expansion work has been identified as an essential service by the Ontario Government. Enbridge Gas is committed to bringing natural gas to your community and we are following the latest guidance provided by public health officials and government authorities. The safety of our customers, employees and contractors is our top priority. Visit enbridgegas.com/savewithgas for Community Expansion project updates.

The benefits of natural gas



More affordable

Compared to other fuels and electricity, natural gas is the most cost-effective way to heat your home and water.



Reliable and abundant

Never worry about running out of fuel or arranging for deliveries again.

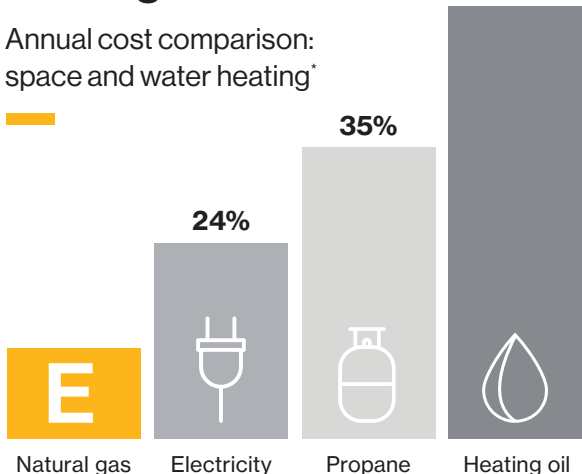


Comfort and convenience

From heating your home and hot water, to cooking, natural gas can make your home more comfortable and enjoyable.

Residential annual heating bills

Annual cost comparison: space and water heating*



How to start saving with natural gas

Visit enbridgegas.com/savewithgas to learn about the benefits of natural gas and the many ways it can help fuel your lifestyle. Follow these four easy steps to get connected. It's always better to submit your application for a natural gas service early in the process since it can take several months to obtain the necessary locates and permits before installing the service itself.

1

Visit enbridgegas.com/savewithgas

Go online to enbridgegas.com/savewithgas to express your interest in natural gas by clicking the "Sign up" button to agree to the Terms and Conditions.

2

Talk to your local heating contractor

Advise your heating contractor that you've agreed to the Terms and Conditions.

Your contractor will submit the natural gas service application on your behalf.

Once both are complete, our office will be in touch with you to confirm timing.

Our construction department will contact you to schedule a meeting to locate and mark all existing underground services.

3

After we install the gas meter

Contact your contractor to arrange for the installation/conversion of your natural gas equipment.

4

The final step

Contact 1-877-362-7434 at least 48 hours in advance to arrange your meter activation and final inspection of the natural gas equipment.

Where does your money go?

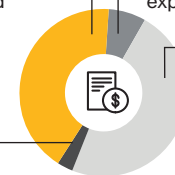
Here's a helpful explanation of the items on a natural gas bill

Expansion Surcharge

It takes significant investment to build the infrastructure to bring natural gas to your community. This surcharge is your contribution, and the fairest way to spread the costs out.

Customer Charge

This is a fixed \$21.83* amount that pays for meter reading, equipment maintenance and 24/7 emergency response services and community expansion.



Supply, Delivery and Transportation Charges

These cover the costs to buy natural gas, bring it to Ontario and move it to your home, safely and reliably.

Cost Adjustment

You pay what we pay. As the price for natural gas changes, we'll adjust your bill quarterly as a charge or credit.

FAQ

1. As a new community expansion customer, why do I have to pay an additional charge towards the construction costs of the project?

2. Why does the length of time the surcharge is in effect differ by community?

To enable us to extend natural gas to rural areas where the cost of building the infrastructure is more expensive than the revenue it generates, the province's energy regulator—the Ontario Energy Board—has approved an additional new customer charge of 23 cents for each cubic metre of natural gas used for a limited time period. On average, most homes will pay \$550 a year for up to 40 years. The length of time this charge remains in effect varies by community because the overall cost to serve each community differs based on things like the distance of the community from an existing natural gas pipeline. Even with this added charge, you'll still save on home and water heating fuel costs by switching to natural gas.

How to start saving with natural gas

Safe. Reliable. Affordable. Abundant.

- 1 Visit enbridgegas.com/savewithgas**

Go online to enbridgegas.com/savewithgas to express your interest in natural gas by clicking the “Sign up” button to agree to the Terms and Conditions.
- 2 Talk to your local heating contractor**

Advise your heating contractor that you’ve agreed to the Terms and Conditions.

Your contractor will submit the natural gas service application on your behalf.

Once both are complete, our office will be in touch with you to confirm timing.

Our construction department will contact you to schedule a meeting to locate and mark all existing underground services.
- 3 After we install the gas meter**

Contact your contractor to arrange for the installation/conversion of your natural gas equipment.
- 4 The final step**

Contact 1-877-362-7434 at least 48 hours in advance to arrange your meter activation and final inspection of the natural gas equipment.

If you have any questions, please reach out to one of our Community Expansion advisors listed below.

Enbridge Gas Contacts

Don Armitage

705-750-7203

don.armitage@enbridge.com

Randy Whitten

437-228-7296

randy.whitten@enbridge.com



Visit **enbridgegas.com/savewithgas** for information about the benefits of natural gas and the many ways it can help fuel your lifestyle.



IMPORTANT

Do not disconnect your existing fuel source or remove any equipment until your new natural gas service and gas meter have been installed.

Natural gas is now available in your community

Terms and Conditions for natural gas service—to be completed by the property owner

Natural gas service installation policy

Enbridge Gas will provide and install at no cost, one service line per civic address to new customers provided that:

1. The distance between the Owner's property line and the front wall of house/building is 20 metres or less; and
2. The distance between the front wall of house/building and the selected meter location is 2 metres or less.

Service and meter installation in excess of these distances will result in additional charges of \$32 per metre (plus applicable taxes)*. Call your local heating, ventilation and air conditioning (HVAC) provider for an assessment and to submit an application for gas service.

Enbridge Gas will assess where your HVAC provider has requested the meter and determine where the service can be installed.

Expansion Surcharge—what to expect

It takes significant investment to build the infrastructure to bring natural gas to your community. The Expansion Surcharge (Surcharge) provides lower upfront costs to customers by spreading them out over time**.

On average, most homes will pay a Surcharge of about \$550 per year (\$0.23 per cubic metre). The Surcharge is based on the home's consumption and will fluctuate based on the gas consumed.

The cancellation policy

If your natural gas account is not activated within one year of installation of your new natural gas service, you'll be required to pay Enbridge Gas' installation costs of \$2,500.

Name (please print)

Phone number

Email address

Address (please print)

Signature

Date

Questions? We're here for you

Contact our Customer Care team at 1-888-427-8888
customerconnectionscontactcentre@enbridge.com



Please complete this form and email it to
ceapplications@enbridge.com

*First Nation communities are exempt from HST.

**The Expansion Surcharge will transfer to subsequent owners of your property.



Scugog Attachment Package

September 2021



We're proud to energize Scugog Island!

Dear Scugog Island Resident,

Now's the time to apply for natural gas

We have some good news to share with you. Your address is identified as in scope for receiving natural gas shortly, and we want to make sure you're in the best position to connect as soon as possible. You may see us working on your street, including items such as survey stakes or locates and survey stakes in the boulevard.

If you're considering converting to natural gas, the earlier you apply the better as permits and locates can take time.

Refer to the Four-Step Process card when you're ready to apply, then visit enbridgegas.com/savewithgas to start your application. You're required to agree to the Terms and Conditions and can do this electronically at the website above under your community, or you can complete and return your signed Terms and Conditions form by emailing this to us at ceapplications@enbridge.com and once we receive this, we'll be in touch.

Unlock the value of natural gas

When compared to using electricity, propane, or oil, switching to natural gas could save you up to 52%* per year on home and water heating costs. Natural gas is also the most affordable way to run appliances like ranges, clothes dryers, and barbecues.

For us to extend natural gas to rural areas where the cost of building the infrastructure is more expensive than the revenue it generates, the Ontario Energy Board approved an additional Expansion Surcharge or ES. This is a variable rate charge, of \$0.23/cubic meter of natural gas used, which will show as a separate line item on your monthly bill for up to 40 years. On average, this amounts to approximately \$550 a year. Even with the ES, you'll still save on home and water heating fuel costs by switching to natural gas. To estimate your potential fuel savings based on your circumstances or find valuable information to help make an informed decision for your household, visit enbridgegas.com/savewithgas to learn more.

Get in touch with us

Our local Community Expansion Advisors are just a phone call away. You can reach out to them to talk about the steps to connect to natural gas, learn more about the value of natural gas, and estimate the potential savings for your home or business. They will provide you with sound information to help you determine if switching to natural gas is right for you.

- Don Armitage 705-750-7203 don.armitage@enbridge.com
- Travis James 289-971-0813 travis.james@enbridge.com

We look forward to meeting your energy needs.

Ahmed Al-Amry

Ahmed Al-Amry
Supervisor, Community Expansion
Enbridge Gas Inc.
savewithgas@enbridge.com
savewithgas.com

*Natural gas price is based on Rate 1 rates in effect as of July 1, 2021 and includes the \$0.23 per m3 expansion surcharge. Oil and propane prices are based on the latest available retail prices. Electricity rates-based Hydro One Distribution rates (Mid-density R1) as of May 1, 2021 and RPP customers that are on TOU pricing. It includes the new Ontario Electricity Rebate (OER). Costs have been calculated for the equivalent energy consumed and include all service, delivery, and energy charges. Carbon price is included for all energy types as reported. HST is not included.

Scugog Island Residents

We are here for you!

Wednesday, Sept. 22
3:30 – 6:30 p.m.

Thursday, Sept. 23
10 a.m. – 1 p.m.

Rain date: Sept. 28 3:00 – 6:30 p.m.

Learn about the benefits of switching to natural gas and how to get connected.

Stop by our kiosk at:

Redmans Antique Barn, 15751 Island Rd, Scugog Island
(corner of Island Rd and Hwy 7)

Representatives will be available to answer all your questions:

Drop by to have all **your questions answered** and we'll help you apply for your natural gas service.

Talk about potential savings on your home energy bills.

Connect with us at: ceapplications@enbridge.com





Investing in Indigenous communities

Working together to create meaningful relationships and lasting prosperity

Enbridge adheres to a strong set of corporate values, and has adopted and implemented a number of corporate responsibility policies and practices. Our Indigenous Peoples Policy guides the nature and scope of our relationships with Indigenous peoples wherever we interact together.

- Serving 21 Indigenous communities across Ontario.
- \$33M in contracts to Indigenous suppliers, vendors and contractors.
- Support for Skills Canada Ontario First Nations, Métis and Inuit Initiatives since 2012.



Energizing the local business community

Access to a more affordable, reliable and plentiful source of energy is a major competitive advantage for both large and small businesses. Connecting to natural gas will help expand critical infrastructure and drive economic development within the community.

Low-cost natural gas delivers approximately \$5 billion in annual savings to Ontario families, businesses and industry—savings that are reinvested into the economy.



We're here for you

Customer Connections Call before you dig
1-877-362-7434 **1-800-400-2255**

Monday to Friday, 24/7 Emergency line
 8 a.m. – 6 p.m. **1-866-763-5427**

Community expansion contacts

Don Armitage
705-750-7203
don.armitage@enbridge.com

Randy Whitten
437-228-7296
randy.whitten@enbridge.com



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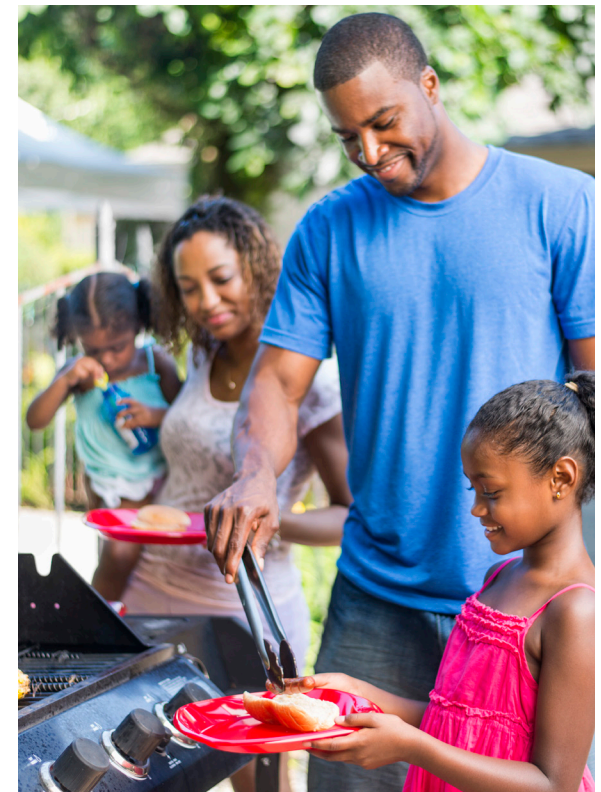
** Subject to change. Please note that all charges, except the fixed Customer Charge, vary based on how much gas you use.

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Switch to safe, reliable, affordable natural gas

Energizing your community

Why natural gas is a smart choice



We understand that these are extraordinary times – around the world and at home here in Ontario. Community Expansion work has been identified as an essential service by the Ontario Government. Enbridge Gas is committed to bringing natural gas to your community and we are following the latest guidance provided by public health officials and government authorities. The safety of our customers, employees and contractors is our top priority. Visit enbridgegas.com/savewithgas for Community Expansion project updates.

The benefits of natural gas



More affordable

Compared to other fuels and electricity, natural gas is the most cost-effective way to heat your home and water.



Reliable and abundant

Never worry about running out of fuel or arranging for deliveries again.

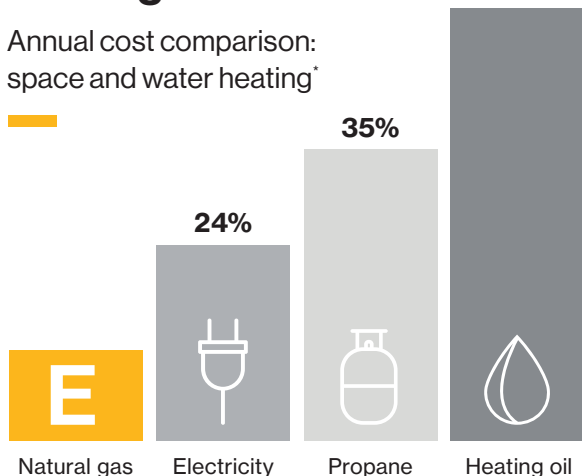


Comfort and convenience

From heating your home and hot water, to cooking, natural gas can make your home more comfortable and enjoyable.

Residential annual heating bills

Annual cost comparison: space and water heating*



How to start saving with natural gas

Visit enbridgegas.com/savewithgas to learn about the benefits of natural gas and the many ways it can help fuel your lifestyle. Follow these four easy steps to get connected. It's always better to submit your application for a natural gas service early in the process since it can take several months to obtain the necessary locates and permits before installing the service itself.

1

Visit enbridgegas.com/savewithgas

Go online to enbridgegas.com/savewithgas to express your interest in natural gas by clicking the "Sign up" button to agree to the Terms and Conditions.

2

Talk to your local heating contractor

Advise your heating contractor that you've agreed to the Terms and Conditions.

Your contractor will submit the natural gas service application on your behalf.

Once both are complete, our office will be in touch with you to confirm timing.

Our construction department will contact you to schedule a meeting to locate and mark all existing underground services.

3

After we install the gas meter

Contact your contractor to arrange for the installation/conversion of your natural gas equipment.

4

The final step

Contact 1-877-362-7434 at least 48 hours in advance to arrange your meter activation and final inspection of the natural gas equipment.

Where does your money go?

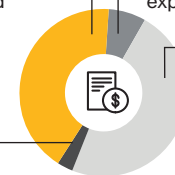
Here's a helpful explanation of the items on a natural gas bill

Expansion Surcharge

It takes significant investment to build the infrastructure to bring natural gas to your community. This surcharge is your contribution, and the fairest way to spread the costs out.

Customer Charge

This is a fixed \$21.83* amount that pays for meter reading, equipment maintenance and 24/7 emergency response services and community expansion.



Supply, Delivery and Transportation Charges

These cover the costs to buy natural gas, bring it to Ontario and move it to your home, safely and reliably.

Cost Adjustment

You pay what we pay. As the price for natural gas changes, we'll adjust your bill quarterly as a charge or credit.

FAQ

1. As a new community expansion customer, why do I have to pay an additional charge towards the construction costs of the project?

2. Why does the length of time the surcharge is in effect differ by community?

To enable us to extend natural gas to rural areas where the cost of building the infrastructure is more expensive than the revenue it generates, the province's energy regulator—the Ontario Energy Board—has approved an additional new customer charge of 23 cents for each cubic metre of natural gas used for a limited time period. On average, most homes will pay \$550 a year for up to 40 years. The length of time this charge remains in effect varies by community because the overall cost to serve each community differs based on things like the distance of the community from an existing natural gas pipeline. Even with this added charge, you'll still save on home and water heating fuel costs by switching to natural gas.

How to start saving with natural gas

Safe. Reliable. Affordable. Abundant.

- 1 Visit enbridgegas.com/savewithgas**

Go online to enbridgegas.com/savewithgas to express your interest in natural gas by clicking the “Sign up” button to agree to the Terms and Conditions.
- 2 Talk to your local heating contractor**

Advise your heating contractor that you’ve agreed to the Terms and Conditions.

Your contractor will submit the natural gas service application on your behalf.

Once both are complete, our office will be in touch with you to confirm timing.

Our construction department will contact you to schedule a meeting to locate and mark all existing underground services.
- 3 After we install the gas meter**

Contact your contractor to arrange for the installation/conversion of your natural gas equipment.
- 4 The final step**

Contact 1-877-362-7434 at least 48 hours in advance to arrange your meter activation and final inspection of the natural gas equipment.

If you have any questions, please reach out to one of our Community Expansion advisors listed below.

Enbridge Gas Contacts

Don Armitage

705-750-7203

don.armitage@enbridge.com

Randy Whitten

437-228-7296

randy.whitten@enbridge.com



Visit **enbridgegas.com/savewithgas** for information about the benefits of natural gas and the many ways it can help fuel your lifestyle.



IMPORTANT

Do not disconnect your existing fuel source or remove any equipment until your new natural gas service and gas meter have been installed.

Natural gas is now available in your community

Terms and Conditions for natural gas service—to be completed by the property owner

Natural gas service installation policy

Enbridge Gas will provide and install at no cost, one service line per civic address to new customers provided that:

1. The distance between the Owner's property line and the front wall of house/building is 20 metres or less; and
2. The distance between the front wall of house/building and the selected meter location is 2 metres or less.

Service and meter installation in excess of these distances will result in additional charges of \$32 per metre (plus applicable taxes)*. Call your local heating, ventilation and air conditioning (HVAC) provider for an assessment and to submit an application for gas service.

Enbridge Gas will assess where your HVAC provider has requested the meter and determine where the service can be installed.

Expansion Surcharge—what to expect

It takes significant investment to build the infrastructure to bring natural gas to your community. The Expansion Surcharge (Surcharge) provides lower upfront costs to customers by spreading them out over time**.

On average, most homes will pay a Surcharge of about \$550 per year (\$0.23 per cubic metre). The Surcharge is based on the home's consumption and will fluctuate based on the gas consumed.

The cancellation policy

If your natural gas account is not activated within one year of installation of your new natural gas service, you'll be required to pay Enbridge Gas' installation costs of \$2,500.

Name (please print)

Phone number

Email address

Address (please print)

Signature

Date

Questions? We're here for you

Contact our Customer Care team at 1-888-427-8888
customerconnectionscontactcentre@enbridge.com



Please complete this form and email it to
ceapplications@enbridge.com

*First Nation communities are exempt from HST.

**The Expansion Surcharge will transfer to subsequent owners of your property.



Rink Advertising

Scugog

Jan 4, 2021 – Jan 2, 2022

Natural gas is a
game-changer
savewithgas.com





Scugog Transit Shelter Ad

2021

Scugog Islanders

Choose comfort,
convenience and
peace of mind

**Save on heating,
spend on what you love**

Join us in leading Ontario's
low-carbon energy future.

savewithgas.com





Community Expansion Trailers

2022



1:10th Scale



Scugog Community Expansion Digital Tactics 2021

Environmental Themed



Creating a path

Headline (max 25 characters):

Leading Ontario's energy transition

CTA:

Learn more

Post Copy (125 characters):

Natural gas is an essential fuel choice you can rely on for space heating, cooking and endless hot water.

Towards a cleaner energy future



Headline (max 25 characters):

Reducing environmental impact

CTA:

Learn more



Switch to natural gas today

Headline (max 25 characters):

Meeting your energy needs

CTA:

Learn more

Plentiful and always available



Post copy (125 characters)

**Natural gas is flowing in your area.
We're leading the transition to a clean
energy future with innovative solutions.**

Headline (25 characters)

Energy you can rely on

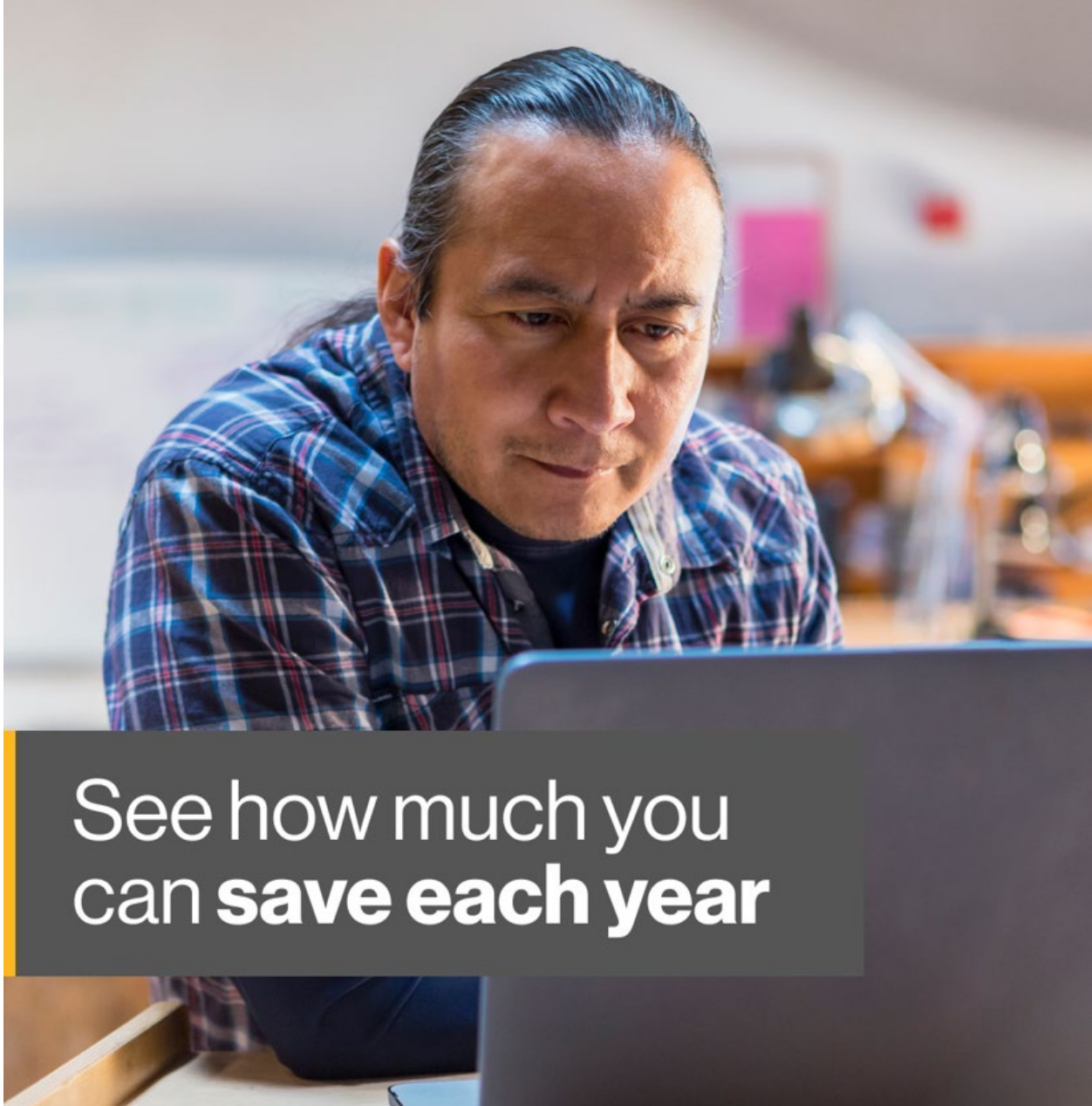
Link description (30 characters)

So many reasons to switch

CTA

Learn more

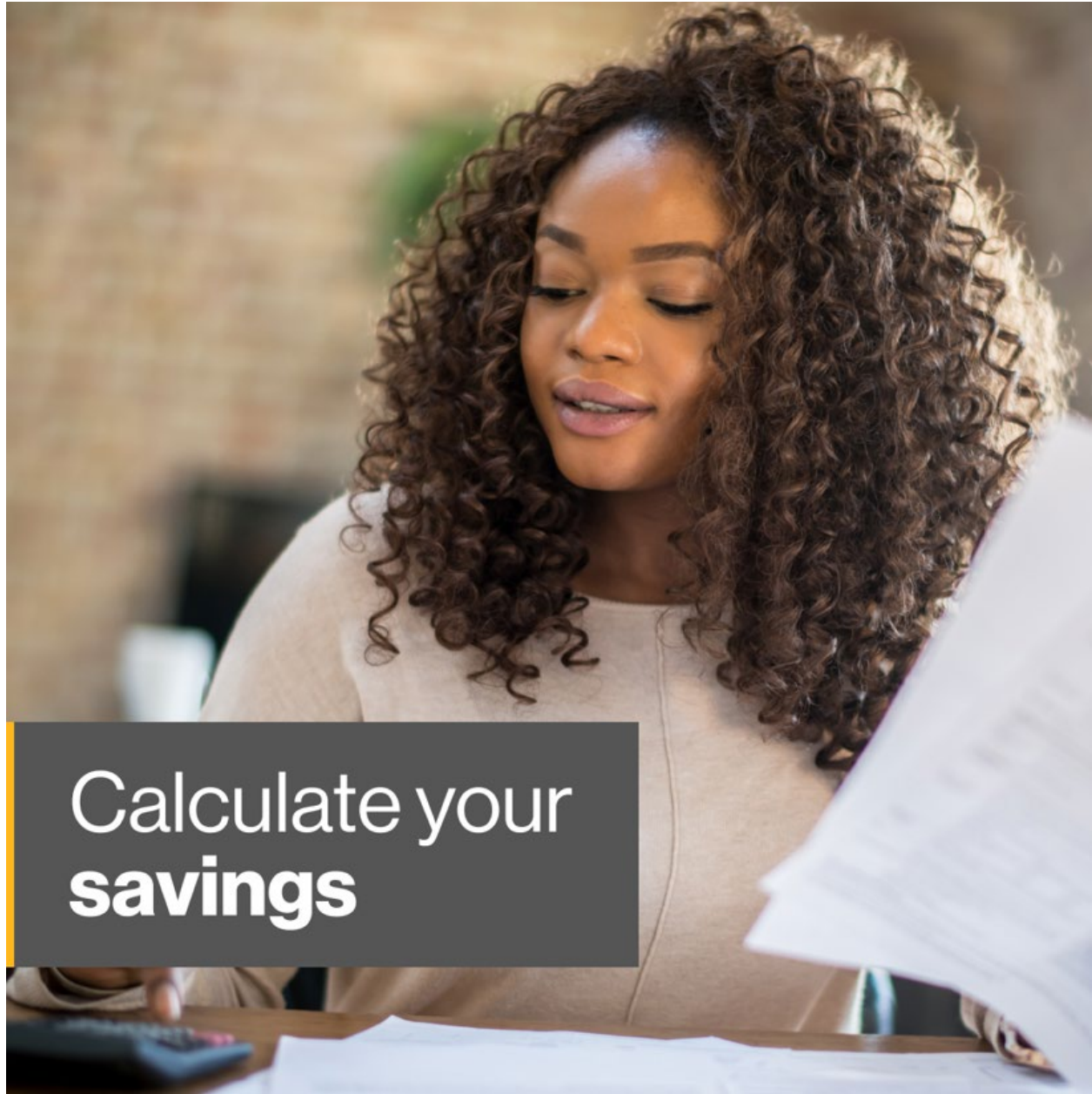
Savings Themed during Holidays



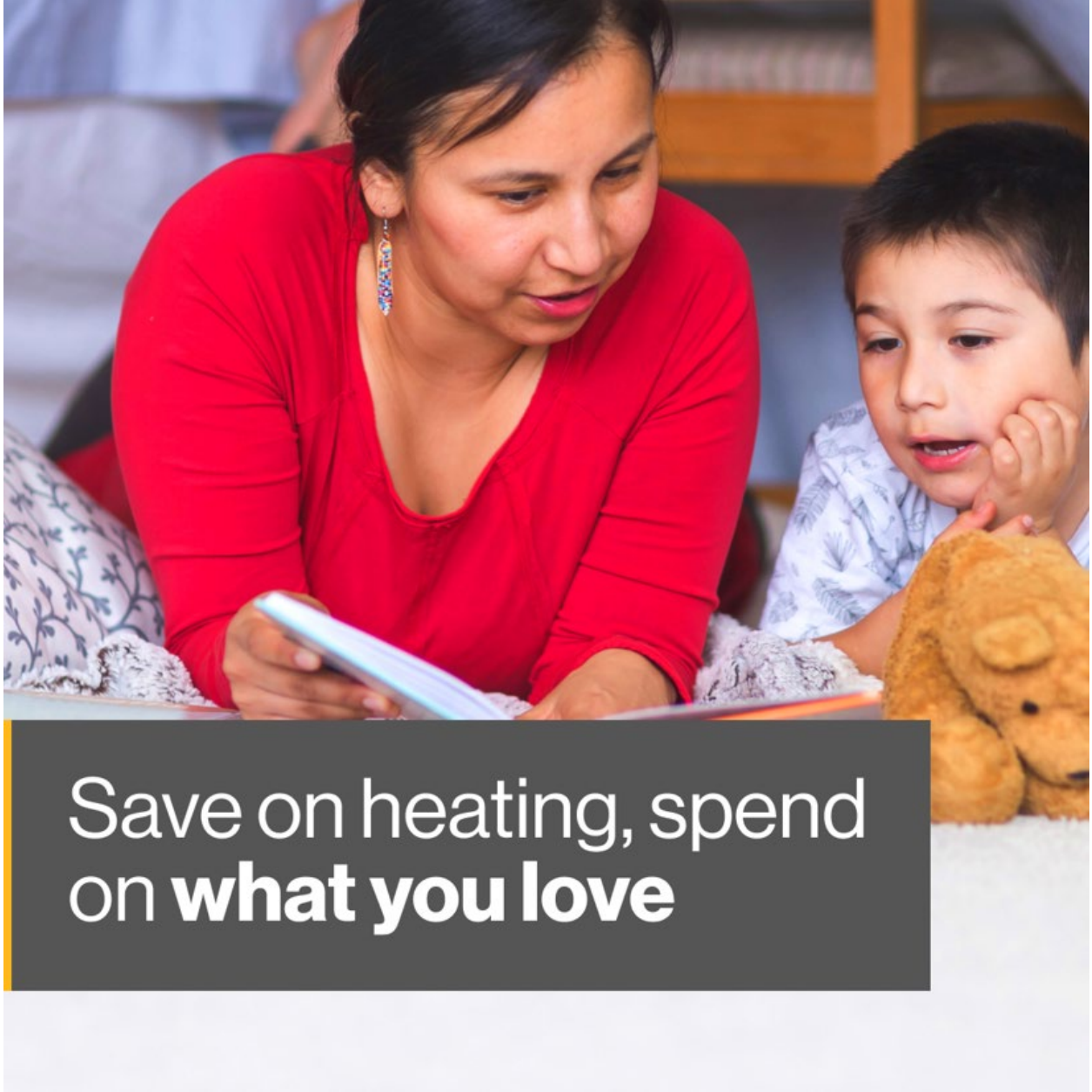
See how much you
can **save each year**



When you switch
to **natural gas**

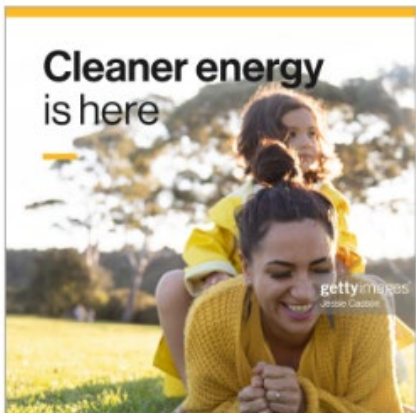


Calculate your
savings



Save on heating, spend
on **what you love**

Static Ads



Option 1

Headline (max 40 characters):

Affordable, reliable natural gas (32)

Text (max 125 characters):

Join the shift to cleaner energy. Still heating with oil or propane? Switch to natural gas to save on costs and emissions. (122)

Link description (max 30 characters):

Natural gas is now available! (29)

CTA (from the supplied options):

Learn more



Option 1

Headline (max 40 characters):

Why switch to natural gas? (27)

Text (max 125 characters):

1. Saving money every month. 2. No more running out of fuel or waiting for deliveries. 3. Lowering your home's emissions. (122)

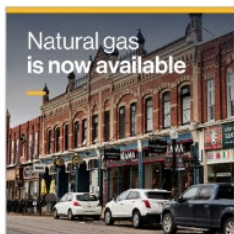
Link description (max 30 characters):

See how much you can save (25)

CTA (from the supplied options):

Learn more

Carousel Ads

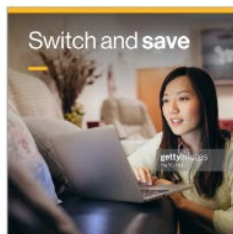


Headline (max 40 characters):
More choice, more solutions (27)

Text (max 125 characters):
Why are Scugog Islanders switching from oil and propane heating to natural gas? For lower costs and lower carbon emissions. (123)

Link description (max 20 characters):
A new heating option (20)

CTA (from the supplied options):
Learn more



Headline (max 40 characters):
Ready now: Cleaner energy (25)

Link description (max 20 characters):
Reduce emissions (16)



Headline (max 40 characters):
Scugog Island is now connected (30)

Link description (max 20 characters):
Reduce costs (12)



Headline (max 40 characters):
Towards a cleaner future (24)

Link description (max 20 characters):
More reliable (13)



Headline (max 40 characters):
Let us help you switch (23)

Link description (max 20 characters):
Get in touch today (18)

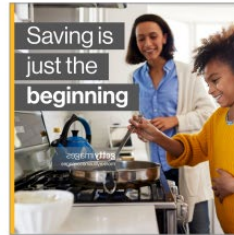


Headline (max 40 characters):
Switch to natural gas (21)

Text (max 125 characters):
When you switch to natural gas, you'll save on energy costs, avoid running out of fuel and lower carbon emissions. (115)

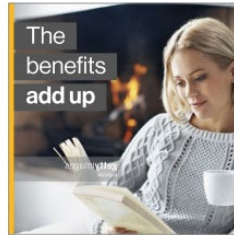
Link description (max 20 characters):
Lower heating bills (19)

CTA (from the supplied options):
Learn more



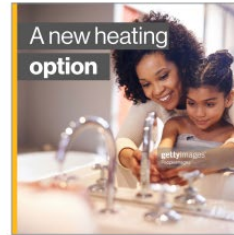
Headline (max 40 characters):
See how much you can save (25)

Link description (max 20 characters):
More affordable (15)



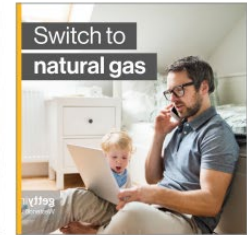
Headline (max 40 characters):
More value for your energy dollar (34)

Link description (max 20 characters):
More convenient (14)



Headline (max 40 characters):
Cleaner energy you can feel good about (38)

Link description (max 20 characters):
More comfort (12)



Headline (max 40 characters):
Affordable. Reliable. Plentiful. (32)

Link description (max 20 characters):
Lower emissions (15)



Scugog Community Expansion Virtual Open House Digital Ad



Attend our Virtual Open House on March 23





Scugog Print Materials

The Standard (Port Perry/Scugog)

In-market: Jan 4

In-market: Feb 8

In market: March 15

In-market: May 13th

In-market: July 15th

In-market: August 12th

In-market: September 9th

In-market: November 18th

Port Perry Star (Port Perry/Scugog)

In-market: Jan 4

In-market: Feb 15

In market: March 15

In-market: May 27

In-market: June 24

In-market July 22

In-market: October 14

In-market: November 11



Scugog Islanders
Choose comfort and convenience

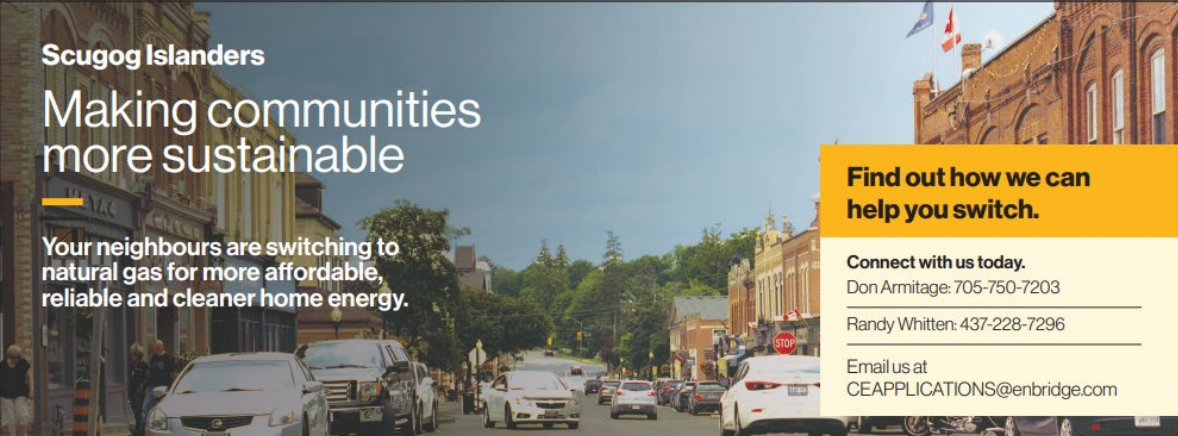
Whether it's for heating, cooking or endless hot water, natural gas delivers cost savings and reliability to your daily life.

Natural gas is now flowing!

Get in touch with us
Don Armitage: 705-750-7203
Travis James: 289-971-0813

Visit **savewithgas.com** to calculate your savings.

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Scugog Islanders
Making communities more sustainable

Your neighbours are switching to natural gas for more affordable, reliable and cleaner home energy.


Find out how we can help you switch.

Connect with us today.
Don Armitage: 705-750-7203
Randy Whitten: 437-228-7296

Email us at
CEAPPLICATIONS@enbridge.com

Visit **enbridgegas.com/savewithgas** to sign up and calculate your savings.

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Scugog Islanders Top 4 reasons to switch to natural gas

**Comfort and convenience
have arrived!**

Sign up today

Don Armitage: 705-750-7203

Randy Whitten: 437-228-7296

Email us at
CEAPPLICATIONS@enbridge.com

- 1 Save money**
Enjoy savings up to 46 percent—depending on your current energy source.

- 2 Clean energy future**
Natural gas is part of the path to net-zero.

- 3 Convenient and cosy**
Never run out of fuel or have to wait for deliveries again!

- 4 Higher resale value**
Homes with lower energy costs are more attractive to buyers.

Visit enbridgegas.com/savewithgas to sign up and calculate your savings.



© 2021 Enbridge Gas Inc. All rights reserved.

Scugog Islanders Save on energy, spend on those you love

Natural gas is now available!

Home comfort doesn't have to be costly—switch to reliable, affordable natural gas so you can save all year, every year.

We're here for you

Don Armitage: 705-750-7203

Kathy Whitten: 647-281-0337

Visit enbridgegas.com/savewithgas to calculate your savings.



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Scugog Islanders

Towards a clean energy future

Switch to natural gas for more affordable, reliable home heating — plus do your part to reduce your homes greenhouse gas emissions.

Natural gas is now available!

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Kathy Whitten: 647-281-0337

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Scugog Islanders

Top 4 reasons to switch to natural gas

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Email us at ceapplications@enbridge.com

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ENB 520 10/2021



Scugog Islanders

Top 4 reasons to switch to natural gas



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ENB 520 11/2021



North Bay Attachment Package

September 2021



We're proud to energize Northshore and Peninsula Road area in North Bay!

Dear Resident,

We have some good news to share with you. Your address has been identified as in scope for our natural gas expansion project. To find out when natural gas will be available for connection, please reach out to our Community Expansion Advisors who can provide you with construction and project updates and discuss timelines as to when natural gas will be available for your home.

The deadline for applications and your service in 2021 is coming soon

Refer to the Four-Step Process card when you're ready to apply, then visit enbridgegas.com/savewithgas to start your application. You are required to agree to the Terms and Conditions – either electronically during sign up at enbridgegas.com/savewithgas, or you can complete and email this to our Community Expansion Advisors at ceapplications@enbridge.com when the form is complete. If submitting via email, you will need to call 1-888-774-3111 to create your account.

Unlock the value of natural gas

When compared to using electricity, propane, or oil, switching to natural gas could save you up to 47%* per year on home and water heating costs. Natural gas is also the most affordable way to run appliances like ranges, clothes dryers, and barbecues.

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- Jamie Coote 705-845-1100 Jamie.Coote@enbridge.com
- Travis James 289-971-0813 travis.james@enbridge.com

We look forward to meeting your energy needs.

Ahmed Al-Amry
Supervisor, Community Expansion
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Working together to create meaningful relationships and lasting prosperity

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- Support for Skills Canada Ontario First Nations, Métis and Inuit Initiatives since 2012.



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We're here for you

Customer care
1-888-774-3111

Call before you dig
1-800-400-2255

Monday to Friday,
8 a.m. – 6 p.m.

24/7 Emergency line
1-877-969-0999

Community expansion contacts

Jamie Coote
705-845-1100
jamie.coote@enbridge.com

Travis James
289-971-0813
travis.james@enbridge.com

Visit enbridgegas.com/savewithgas to learn more about natural gas in your community.



* Subject to change. Please note that all charges, except the fixed Customer Charge, vary based on how much gas you use.

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affordable natural gas

Energizing your community

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The benefits of natural gas



More affordable

Compared to other fuels and electricity, natural gas is the most cost-effective way to heat your home and water.



Reliable and abundant

Never worry about running out of fuel or arranging for deliveries again.



Comfort and convenience

From heating your home and hot water, to cooking, natural gas can make your home more comfortable and enjoyable.



Natural gas furnace

Quickly heats the entire house, circulates filtered air and keeps temperatures consistent



Natural gas fireplace

Cosy up with a good book and forget about cleaning ashes and heat loss up the chimney.



Natural gas barbecue

Makes grilling easy and quick. It is also much more convenient. You won't ever have to run out of fuel.

How to start saving with natural gas

Follow these four easy steps to get connected. It's always better to submit application for a natural gas service as early in the process as you can to help us plan your service and make sure you are included.

1

Visit [enbridgegas.com/savewithgas](https://www.enbridgegas.com/savewithgas)

Go online to [enbridgegas.com/savewithgas](https://www.enbridgegas.com/savewithgas) to express your interest in natural gas by clicking the “Sign up” button to agree to the terms and conditions and set up your account.

Choose from several convenient billing and payment options – if you opt for our equal billing and automatic payment plans, we'll waive the security deposit requirements.

2

Talk to your local heating contractor

Advise your heating contractor that you've agreed to the Terms and Conditions and you've set up your account.

Your contractor will submit the natural gas service application on your behalf.

Once both are complete, our office will be in touch with you to confirm timing.

Our construction department will contact you to schedule a meeting to locate and mark all existing underground services.

3

After we install the natural gas service

Contact your contractor to arrange for the installation/conversion of your natural gas equipment.

4

The final step

Your heating contractor will install your new equipment and arrange for your meter to be installed and activated. Your new equipment will be turned on and inspected as required by the Technical Standards and Safety Act.

Where does your money go?

Here's a helpful explanation of the items on a natural gas bill

Expansion Surcharge

It takes significant investment to build the infrastructure to bring natural gas to your community. This surcharge is your contribution, and the fairest way to spread the costs out.

Customer Charge

This is a fixed \$22.50 amount that pays for meter reading, equipment maintenance and 24/7 emergency response services and community expansion.



Supply, Delivery and Transportation Charges

These cover the costs to buy natural gas, bring it to Ontario and move it to your home, safely and reliably.

Cost Adjustment

You pay what we pay. As the price for natural gas changes, we'll adjust your bill quarterly as a charge or credit.

FAQ

1. As a new community expansion customer, why do I have to pay an additional charge towards the construction costs of the project?

2. Why does the length of time the surcharge is in effect differ by community?

To enable us to extend natural gas to rural areas where the cost of building the infrastructure is more expensive than the revenue it generates, the province's energy regulator—the Ontario Energy Board—has approved an additional new customer charge of 23 cents for each cubic metre of natural gas used for a limited time period. On average, most homes will pay \$550 a year for up to 40 years. The length of time this charge remains in effect varies by community because the overall cost to serve each community differs based on things like the distance of the community from an existing natural gas pipeline. Please note there may be a delay beyond our control in requesting permits and locates.

How to start saving with natural gas

Safe. Reliable. Affordable. Abundant.

1

Sign up online

Go online to enbridgegas.com/savewithgas to express your interest in natural gas by clicking the “Sign up” button to agree to the terms and conditions and set up your account.

Choose from several convenient billing and payment options – if you opt for our equal billing and automatic payment plans, we’ll waive the security deposit requirements.

2

Talk to your local heating contractor

Advise your heating contractor that you’ve agreed to the Terms and Conditions and you’ve set up your account.

Your contractor will submit the natural gas service application on your behalf.

Once both are complete, our office will be in touch with you to confirm timing.

Our construction department will contact you to schedule a meeting to locate and mark all existing underground services.

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After we install the natural gas service

Contact your contractor to arrange for the installation/conversion of your natural gas equipment.

4

The final step

Your heating contractor will install your new equipment and arrange for your meter to be installed and activated. Your new equipment will be turned on and inspected as required by the Technical Standards and Safety Act.

If you have any questions, please reach out to one of our Community Expansion advisors listed below.

Enbridge Gas contacts

Jamie Coote
705-845-1100

jamie.coote@enbridge.com

Travis James
289-971-0813

travis.james@enbridge.com



For more information visit
enbridgegas.com/savewithgas
to learn about the benefits of
natural gas and the many ways
it can help fuel your lifestyle.



IMPORTANT

Do not disconnect your existing fuel source or remove any equipment until your new natural gas service and gas meter have been installed.

Natural gas is now available in your community

Terms and Conditions for natural gas service—to be completed by the property owner

Natural gas service installation policy

Enbridge Gas will provide and install at no cost, one service line per civic address to new customers which will include up to 30 metres of laid pipe and anything beyond that would be \$45 per metre (plus applicable taxes).

Call your local heating, ventilation and air conditioning (HVAC) provider for an assessment and to submit an application for gas service.

Enbridge Gas will assess where your HVAC provider has requested the meter and determine where the service can be installed.

Expansion Surcharge—what to expect

It takes significant investment to build the infrastructure to bring natural gas to your community. The Expansion Surcharge (Surcharge) provides lower upfront costs to customers by spreading them out over time*.

On average, most homes will pay a Surcharge of about \$550 per year (\$0.23 per cubic metre). The Surcharge is based on the home's consumption and will fluctuate based on the gas consumed.

The cancellation policy

If your natural gas account is not activated within one year of installation of your new natural gas service, you'll be required to pay Enbridge Gas' installation costs of \$2,500.

Name (please print)

Phone number

Email address

Address (please print)

Signature

Date

Questions? We're here for you

Contact our Customer Care team at 1-888-774-3111
ceapplications@enbridge.com



Please complete this form and email it to ceapplications@enbridge.com

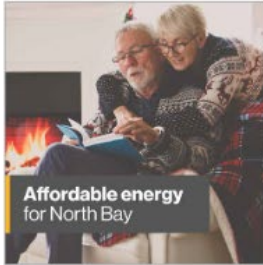
* The Expansion Surcharge will transfer to subsequent owners of your property.

† Natural gas price includes the Expansion Surcharge.



North Bay Digital Ads

Carousel Ads



Affordable energy
for North Bay

Headline (max 60 characters):
Switch to natural gas (21)

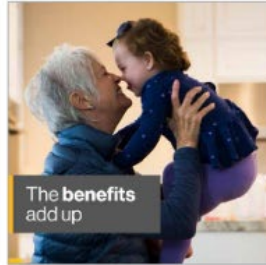
Link Description Text (max 20 characters):
Lower heating bills (19)



Saving is just
the beginning

Headline (max 60 characters):
Save money and energy (21)

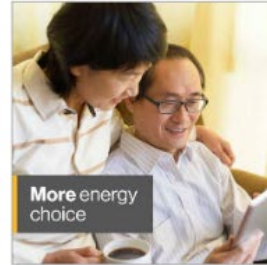
Link Description Text (max 20 characters):
More affordable (15)



The benefits
add up

Headline (max 60 characters):
More value for your energy dollar (34)

Link Description Text (max 20 characters):
More convenient (14)



More energy
choice

Headline (max 60 characters):
A switch you can feel good about (34)

Link Description Text (max 20 characters):
More comfort (12)



Switch to
natural gas

Headline (max 60 characters):
Affordable. Reliable. Plentiful. (32)

Link Description Text (max 20 characters):
Lower emissions (15)

Post Copy (max 125 characters):
When you switch to natural gas, you'll save all year, every year, avoid running out of fuel and reduce carbon emissions. (120)

CTA:
Learn More

Static Ad



**Save on energy,
spend on what you love**

Headline (max 40 characters):

Switch. Save. Simple. (22)

Post copy (125 characters):

North Bay: Switch from heating with oil or propane to natural gas for annual savings, more comfort and lower emissions. (119)

Link description (max 30 characters):

The benefits add up (19)

CTA:

Learn More



North Bay Virtual Open House Ad

March 2021



Attend our Virtual Open House on March 4



North Bay

Always there
for you when
you need it

**Natural gas is the
consistent, versatile and
affordable choice**

Calculate your savings at
[savewithgas.com](https://www.savewithgas.com)

 **ENBRIDGE**
Life Takes Energy[®]



North Bay Newspaper Ad

Northshore and Peninsula Road Area

Save on energy, spend on those you love

Natural gas is now available!

Home comfort doesn't have to be costly — switch to reliable, affordable natural gas so you can save all year, every year.

We're here for you

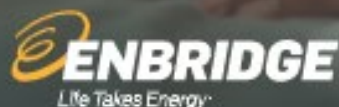
Jamie.Cooate@enbridge.com
705-845-1100

Travis.James@enbridge.com
289-971-0813

Email us at
CEAPPLICATIONS@enbridge.com

Sign up today!

Visit enbridgegas.com/savewithgas
to sign up and calculate your savings.



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1

of 1



Northshore and Peninsula Road Area

Towards a clean energy future

Switch to natural gas for more affordable, reliable home heating—plus do your part to reduce your home's greenhouse gas emissions.

Sign up now and enjoy your natural gas service this year.

Connect with us today.

Jamie Coote: 705-845-1100
Jamie.Coote@enbridge.com

Travis James: 289-971-0813
Travis.James@enbridge.com



Visit enbridgegas.com/savewithgas to sign up and calculate your savings.



Northshore and Peninsula Road Area

Towards a clean energy future

Switch to natural gas for more affordable, reliable home heating—plus do your part to reduce your home's greenhouse gas emissions.

Sign up now and enjoy your natural gas service this year.

Connect with us today.

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Jamie.Coote@enbridge.com

Travis James: 289-971-0813
Travis.James@enbridge.com

Visit enbridgegas.com/savewithgas to sign up and calculate your savings.





Rink Advertising

Fenelon Falls

Jan 4, 2021 – Jan 2, 2022

Natural gas is a
game-changer
savewithgas.com





Saugeen Kiosk Digital Ad

Saugeen First Nation Residents

We are here for you!

Stop by our kiosk at:

Saugeen First Nation Governance Building
6 Cameron Drive, Southampton

Wednesday, Nov. 17

1:30 – 5:30 p.m.

Thursday, Nov. 18

10 a.m. – 2 p.m.

Rain date: Tuesday, Nov. 23 10 a.m. – 2 p.m.





Saugeen Fridge Magnet Calendar Mailer



OCTOBER 2021

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Let's connect

Selwyn Community Expansion Project

Wednesday, May 4
10 a.m. – 6 p.m.

Rain date:
Thursday, May 5, 10 a.m. – 6 p.m.

Learn about the benefits of switching to natural gas and how to get connected.

Stop by our kiosk at:
Classy Chassis & Cycles
1399 8th Line Smith, Lakefield

Representatives will be available to answer all your questions:

Drop by to have all **your questions answered** and
we'll help you apply for your natural gas service.

Talk about potential savings
on your home energy bills.

Connect with us at: ceapplications@enbridge.com





We're proud to energize the Township of Selwyn!

Dear Selwyn Resident,

Now's the time to apply for natural gas

We have some good news to share with you. Your address is identified as in scope for receiving natural gas shortly, and we want to make sure you're in the best position to connect as soon as possible. By signing up now, we'll be able to prioritize your service install as soon as the natural gas main is installed in front of your house. You may see us working on your street, including items such as survey stakes or locates.

If you're considering converting to natural gas, the earlier you apply the better as permits and locates can take time.

Refer to the Four-Step Process card when you're ready to apply, then visit enbridgegas.com/savewithgas to start your application. You're required to agree to the Terms and Conditions – either electronically during sign up at enbridgegas.com/savewithgas, or you can complete and email this to our Community Expansion Advisors at ceapplications@enbridge.com when the form is complete.

Unlock the value of natural gas

When compared to using electricity, propane or oil, natural gas could save you up to 54%* per year on home and water heating costs. Natural gas is also the most affordable way to run appliances like ranges, clothes dryers and barbecues.

For us to extend natural gas to rural areas where the cost of building the infrastructure is more expensive than the revenue it generates, the Ontario Energy Board approved an additional Expansion Surcharge or ES. This is a variable rate charge, of \$0.23/cubic meter of natural gas used, which will show as a separate line item on your monthly bill for up to 40 years. On average, this amounts to approximately \$550 a year. Even with the ES, you'll still save on home and water heating fuel costs by switching to natural gas. To estimate your potential fuel savings based on your circumstances or find valuable information to help make an informed decision for your household, enbridgegas.com/savewithgas to find out more.

Get in touch with us

Our local Community Expansion Advisors are just a phone call away. You can reach out to them to talk about the steps to connect to natural gas, learn more about the value of natural gas, and estimate the potential savings for your home or business. They will provide you with sound information to help you determine if switching to natural gas is right for you.

Community Expansion Advisor
ceapplications@enbridge.com
1-833-356-2689

We look forward to meeting your energy needs.

Ahmed Al-Amry
Supervisor, Community Expansion
Enbridge Gas Inc.
ceapplications@enbridge.com
enbridgegas.com/savewithgas

* Natural gas prices are based on Rate 1 rates in effect as of **April 1, 2022** and includes the \$0.23 per m³ expansion surcharge. Oil price is based on the latest available retail price. Electricity rates based Hydro One Distribution rates (Mid-density R1) as of **April 1, 2022** and RPP customers that are on TOU pricing. It includes the new Ontario Electricity Rebate (OER). The propane price comparison is based on the lowest price obtained in an area survey conducted quarterly. Since individual fuel prices vary, savings assumptions may or may not be as accurate in your situation. Please go to our calculator at enbridgegas.com/savewithgas for a more accurate savings estimate. Costs have been calculated for the equivalent energy consumed and include all service, delivery and energy charges. Carbon price is included for all energy types as reported. HST is not included.

Let's connect

Selwyn Community Expansion Project

Wednesday, May 4
10 a.m. – 6 p.m.

Rain date:
Thursday, May 5, 10 a.m. – 6 p.m.

Learn about the benefits of switching to natural gas and how to get connected.

Stop by our kiosk at:
Classy Chassis & Cycles
1399 8th Line Smith, Lakefield

Representatives will be available to answer all your questions:

Drop by to have all **your questions answered** and
we'll help you apply for your natural gas service.

Talk about potential savings
on your home energy bills.

Connect with us at: **ceapplications@enbridge.com**



How to start saving with natural gas

Safe. Reliable. Affordable. Abundant.

- 1 Visit enbridgegas.com/savewithgas**

Go online to enbridgegas.com/savewithgas to express your interest in natural gas by clicking the “Sign up” button to agree to the Terms and Conditions.
- 2 Talk to your local heating contractor**

Advise your heating contractor that you’ve agreed to the Terms and Conditions and you’ve set up your account.

Your contractor will submit the natural gas service application on your behalf.

Once both are complete, our office will be in touch with you to confirm timing.

Our construction department will contact you to schedule a meeting to locate and mark all existing underground services.
- 3 After we install the natural gas service**

Contact your contractor to arrange for the installation/conversion of your natural gas equipment.
- 4 The final step**

Contact 1-877-362-7434 at least 48 hours in advance to arrange your meter activation and final inspection of the natural gas equipment.

If you have any questions, please reach out to one of the following options below::

Email: ceapplications@enbridge.com
Phone: 1-833-356-2689



For more information visit enbridgegas.com/savewithgas to learn about the benefits of natural gas and the many ways it can help fuel your lifestyle.

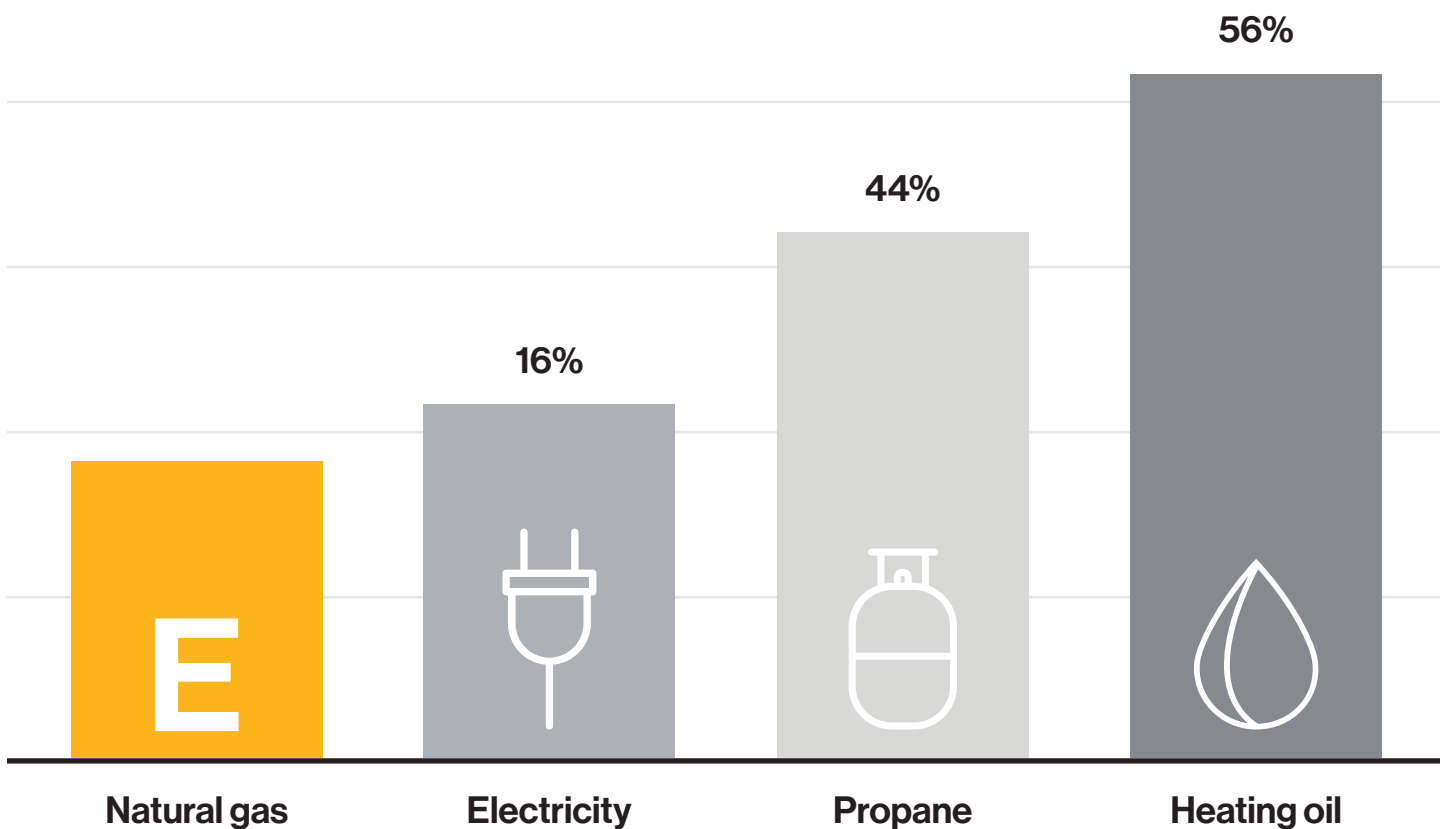


IMPORTANT

Do not disconnect your existing fuel source or remove any equipment until your new natural gas service and gas meter have been installed.

Residential annual heating bills

Annual cost comparison:
space and water heating*



* Natural gas prices are based on Rate 1 rates in effect as of **April 1, 2022** and includes the \$0.23 per m³ expansion surcharge. Oil price is based on the latest available retail price. Electricity rates based Hydro One Distribution rates (Mid-density R1) as of **April 1, 2022** and RPP customers that are on TOU pricing. It includes the new Ontario Electricity Rebate (OER). The propane price comparison is based on the lowest price obtained in an area survey conducted quarterly. Since individual fuel prices vary, savings assumptions may or may not be as accurate in your situation. Please go to our calculator at enbridgegas.com/savewithgas for a more accurate savings estimate. Costs have been calculated for the equivalent energy consumed and include all service, delivery and energy charges. Carbon price is included for all energy types as reported. HST is not included.

Natural gas is now available in your community

Terms and Conditions for natural gas service—to be completed by the property owner

Natural gas service installation policy

Enbridge Gas will provide and install at no cost, one service line per civic address to new customers provided that:

1. The distance between the Owner's property line and the front wall of house/building is 20 metres or less; and
2. The distance between the front wall of house/building and the selected meter location is 2 metres or less.

Service and meter installation in excess of these distances will result in additional charges of \$32 per metre (plus applicable taxes)*. Call your local heating, ventilation and air conditioning (HVAC) provider for an assessment and to submit an application for gas service.

Enbridge Gas will assess where your HVAC provider has requested the meter and determine where the service can be installed.

Expansion Surcharge—what to expect

It takes significant investment to build the infrastructure to bring natural gas to your community. The System Expansion Surcharge (Surcharge) provides lower upfront costs to customers by spreading them out over time**.

On average, most homes will pay a Surcharge of about \$550 per year (\$0.23 per cubic metre). The Surcharge is based on the home's consumption and will fluctuate based on the gas consumed.

The cancellation policy

If your natural gas account is not activated within one year of installation of your new natural gas service, you'll be required to pay Enbridge Gas' installation costs of \$2,500.

_____	_____	_____
Name (please print)	Phone number	Email address
_____	_____	_____
Address (please print)	Signature	Date

Questions? We're here for you

Contact our Community Expansion Team at 1-833-356-2689 or email ceapplications@enbridge.com

Please complete this form and email it to ceapplications@enbridge.com

*First Nation communities are exempt from HST.

**The Expansion Surcharge will transfer to subsequent owners of your property.



Let's connect

Selwyn Community Expansion Project

Location

Classy Chassis & Cycles
1399 8th Line Smith, Lakefield

Date

Wednesday, May 4, 10 a.m. – 6 p.m.

Rain Date

Thursday, May 5, 10 a.m. – 6 p.m.



Let's connect

Selwyn Community Expansion Project

Location

Classy Chassis & Cycles
1399 8th Line Smith, Lakefield

Date

Wednesday, May 4, 10 a.m. – 6 p.m.

Rain Date

Thursday, May 5, 10 a.m. – 6 p.m.



Let's connect

Selwyn Community Expansion Project

Location

Classy Chassis & Cycles
1399 8th Line Smith, Lakefield

Date

Tuesday, Oct. 4, 10 a.m. – 6 p.m.

Rain Date

Thursday, Oct. 6, 10 a.m. – 6 p.m.

Attachment 17



Let's connect

Selwyn Community Expansion Project

Location

Classy Chassis & Cycles
1399 8th Line Smith, Lakefield

Date

Tuesday, Oct. 4, 10 a.m. – 6 p.m.

Rain Date

Thursday, Oct. 6, 10 a.m. – 6 p.m.



Choose to pay less for energy

Save up to 65% each year
by switching to natural gas

What's inside:



See how
much you
can save



5-step
guide to get
connected



Ready to cut energy bills in half?

Good news— natural gas is a convenient solution to help you save. This package will guide you through everything you need to know about connecting your home or business and all the benefits of affordable, reliable natural gas.

Save up to 65 percent* each year

Compared to electricity, propane or oil, switching to natural gas could save you on home and water heating costs year round. It's more convenient: you'll never run out of fuel or wait for trucks to arrive.

Lower carbon emissions

Natural gas is cleaner than other fuels and can help reduce your home's carbon footprint.

It's easy to get started

Follow our simple five-step guide on page six to see how the connection process works.

See how much you can save

Use our online calculator to see how much you can save by switching to natural gas. Enter your home's size, age and a few more details to get a personalized estimate of annual savings.

Calculate your savings by visiting enbridgegas.com/savewithgas and finding your community page to use the calculator.

Ahmed Al-Amry

Ahmed Al-Amry
Supervisor, Community Expansion
Enbridge Gas



Get in touch any time

For construction updates or questions about the steps to connect to natural gas, personalized cost savings and more, contact one of our Community Expansion Advisors.

Community Expansion Contacts:

Phone: 1-833-356-2689

Email: ceapplications@enbridge.com

* Natural gas prices are based on Rate 1 rates in effect as of **April 1, 2023** and include the \$0.23 per m³ expansion surcharge. Oil price is based on the latest available retail price. Electricity rates based on Hydro One Distribution rates (Mid-density R1) as of **Jan. 1, 2023** and Regulated Price Plan (RPP) customers that are on Time-Of-Use (TOU) pricing. They include the new Ontario Electricity Rebate (OER). The propane price comparison is based on the lowest price obtained in an area survey conducted quarterly. Since individual fuel prices vary, savings assumptions may or may not be as accurate in your situation. Please use the savings calculator found on this page for a more accurate savings estimate. Costs have been calculated for the equivalent energy consumed and include all service, delivery and energy charges. Carbon price is included for all energy types as reported. HST is not included.

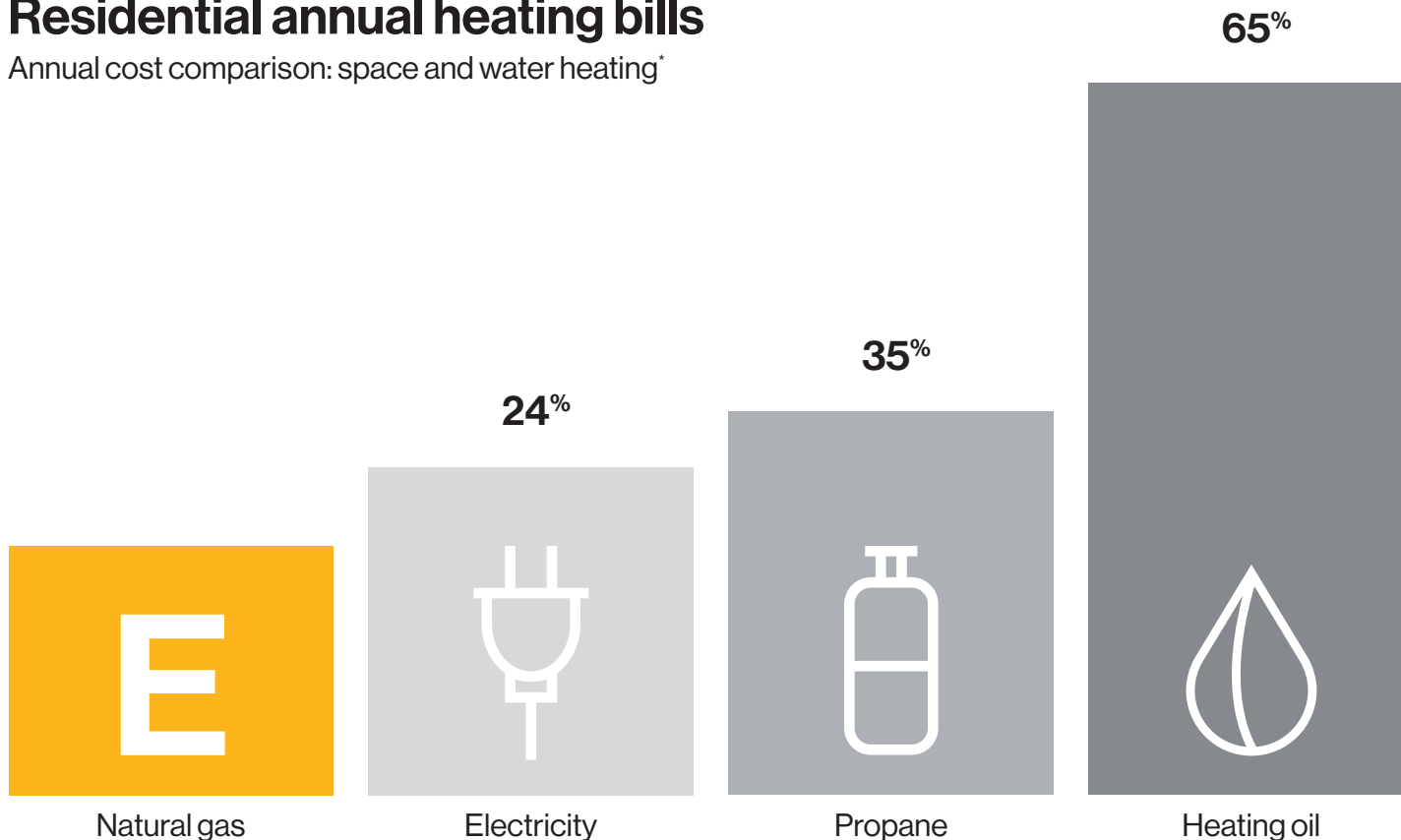
Cost and benefits

How much can you save each year?

Lower costs, lower emissions, more convenience and peace of mind.

Residential annual heating bills

Annual cost comparison: space and water heating*



* Natural gas prices are based on Rate 1 rates in effect as of **April 1, 2023** and include the \$0.23 per m³ expansion surcharge. Oil price is based on the latest available retail price. Electricity rates based on Hydro One Distribution rates (Mid-density R1) as of **Jan. 1, 2023** and Regulated Price Plan (RPP) customers that are on Time-Of-Use (TOU) pricing. They include the new Ontario Electricity Rebate (OER). The propane price comparison is based on the lowest price obtained in an area survey conducted quarterly. Since individual fuel prices vary, savings assumptions may or may not be as accurate in your situation. Please use the savings calculator found on this page for a more accurate savings estimate. Costs have been calculated for the equivalent energy consumed and include all service, delivery and energy charges. Carbon price is included for all energy types as reported. HST is not included.

Bring home all the benefits



More affordable

Compared to other fuels and electricity, natural gas is the most cost-effective way to heat your home and water.



Comfort and convenience

Never worry about running out of fuel or waiting for deliveries again.



Versatile and efficient

From fireplaces to clothes dryers, natural gas can make your home more comfortable and enjoyable.



Lower carbon emissions

Natural gas can help reduce your home's carbon footprint.

Billing and charges

Where does your money go?

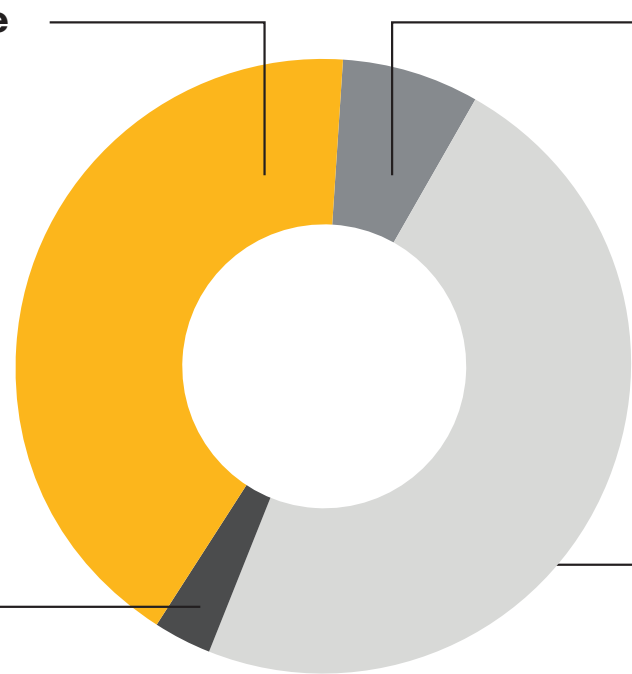
Here's a helpful explanation of a few key items on your natural gas bill

Expansion Surcharge

The fairest way to cover the infrastructure costs of expanding natural gas service.

Cost Adjustment

Natural gas rates vary by season—you pay what we pay.



Customer Charge

This is a fixed \$22.88* amount that pays for 24/7 emergency response and other services.

* Subject to change. Please note that all charges, except the fixed customer charge, vary based on how much natural gas you use.

Supply, Delivery and Transportation Charges

These cover the costs to buy and deliver natural gas to your home.

Frequently asked questions

Q: Why do I have to pay an additional charge towards the construction costs of the project?

A: For us to extend natural gas to rural areas where the cost of building the infrastructure is more than the revenue it generates, the Ontario Energy Board approved an additional expansion surcharge. This is a variable rate charge, based on your usage, of \$0.23/cubic metre of natural gas used. Since homes use more natural gas in colder months, the surcharge will be higher in winter. It will appear as a separate line item on your monthly bill for up to 40 years.

Go to enbridgegas.com/savewithgas to get an estimate of your potential fuel savings.

Q: Why is the surcharge in effect for different lengths of time by community?

A: The length of time the surcharge remains in effect varies by community because the overall cost to serve each community is different, based on factors such as the distance of the community from an existing natural gas pipeline and more.

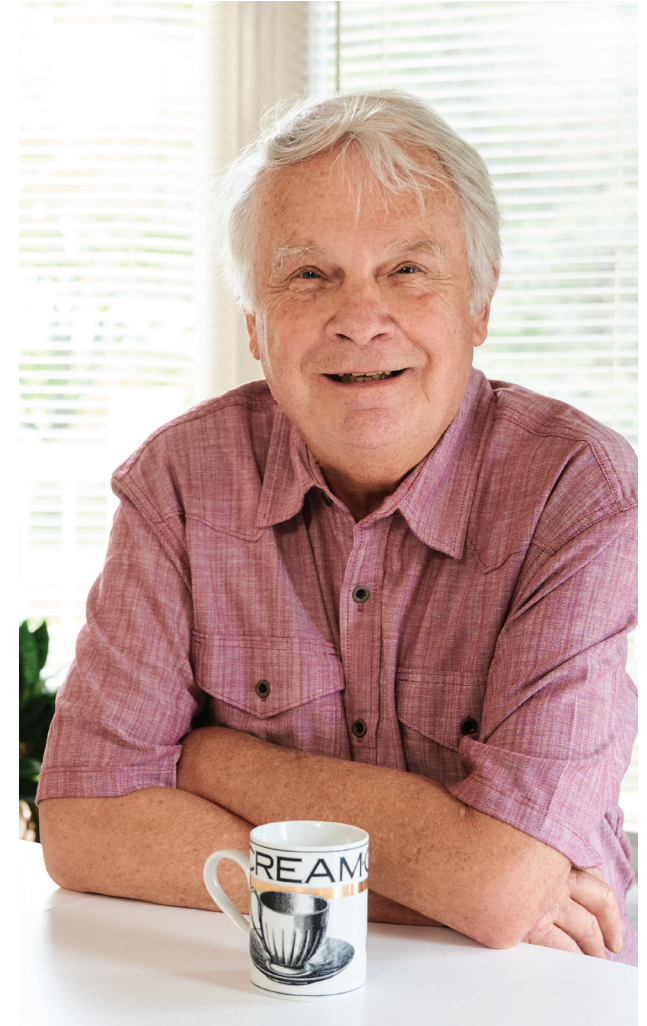
“We’ve saved all kinds of money by converting to natural gas, especially over the cost of hydro these days. It just made sense.”

**– Phil Dewsnap,
Homeowner,
Fenelon Falls**



“I live in a rural region. That means I have my own septic, my own water, and if things don’t work, I’m in real trouble. Natural gas has helped me be more independent and I saved a really good buck.”

– John Powell, Homeowner, Scugog Island



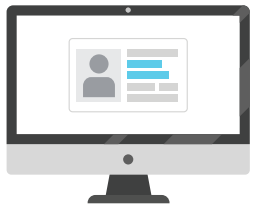
“The advice I would give others is to convert to natural gas. We’ve seen a lot of energy savings, the conversion was simple and you get some extra money in your pocket, so it’s worth doing.”

– Phil Dewsnap, Homeowner, Fenelon Falls

How to get connected

5 simple steps to switch

It's always best to complete your application for natural gas service as early as possible. This helps us to ensure you are included in our planning process.



1. Inquire with us

Visit enbridgegas.com/savewithgas to review project details, calculate your estimated savings and engage our project team to answer any of your questions.



2. Get an estimate from your local heating contractor

Once you have made your decision to convert, your contractor will submit the natural gas service application on your behalf. You will receive an email summary of the gas application as submitted by your contractor.

A member of our team will contact you to coordinate locating and marking all existing underground utilities.



3. Acknowledge your account details

You will receive a confirmation email with a verification link prompting you to validate the following: your service address, homeowner and billing information.

You will also be provided details on the expansion surcharge, which will fluctuate monthly based on your natural gas use. Even with this surcharge, you can still save significantly every year by switching to natural gas.



4. After we install the natural gas service

Contact your contractor to arrange for the installation and conversion of your natural gas equipment.



5. The final step

Contact 1-877-362-7434 at least 48 hours in advance to arrange your meter activation and final inspection of the natural gas equipment.

Natural gas service installation policy

Enbridge Gas will provide and install at no cost, one service line per civic address to new customers provided that the distance between the Owner's property line and the front wall of house/building is 20 metres or less. Services in excess of this distance will result in additional charges of \$32 per metre (plus applicable taxes). Call your local heating, ventilation and air conditioning (HVAC) provider for an assessment and to submit an application for gas service.

IMPORTANT!

Do not disconnect your existing fuel source or remove any equipment until your new natural gas service and gas meter have been installed.

Take the first step to savings

Let us know you're interested in connecting to natural gas



Please send the following information to ceapplications@enbridge.com and a Community Expansion Advisor will contact you soon.

Name (please print)

Address

Phone number

Email address

Existing primary heat source

Existing secondary heat source

Signature

Date

Get in touch any time



Prefer postal mail?

Mail your completed expression of interest to us at:

Enbridge Gas
Community Expansion
PO Box 618
Bobcaygeon, ON K0M 1A0



Questions?

We're here for you.

Contact a Community Expansion Advisor:

1-833-356-2689
ceapplications@enbridge.com

Completing this Expression of Interest Card is not an application for natural gas, or a binding contract by either you or Enbridge Gas for natural gas service.

Choose to pay less for energy

Save up to 65% each year
by switching to natural gas

What's inside:



See how
much you
can save



5-step
guide to get
connected



Ready to cut energy bills in half?

Good news— natural gas is a convenient solution to help you save. This package will guide you through everything you need to know about connecting your home or business and all the benefits of affordable, reliable natural gas.

Save up to 65 percent* each year

Compared to electricity, propane or oil, switching to natural gas could save you on home and water heating costs year round. It's more convenient: you'll never run out of fuel or wait for trucks to arrive.

Lower carbon emissions

Natural gas is cleaner than other fuels and can help reduce your home's carbon footprint.

It's easy to get started

Follow our simple five-step guide on page six to see how the connection process works.

See how much you can save

Use our online calculator to see how much you can save by switching to natural gas. Enter your home's size, age and a few more details to get a personalized estimate of annual savings.

Calculate your savings by visiting enbridgegas.com/savewithgas and finding your community page to use the calculator.

Ahmed Al-Amry

Ahmed Al-Amry
Supervisor, Community Expansion
Enbridge Gas



Get in touch any time

For construction updates or questions about the steps to connect to natural gas, personalized cost savings and more, contact one of our Community Expansion Advisors.

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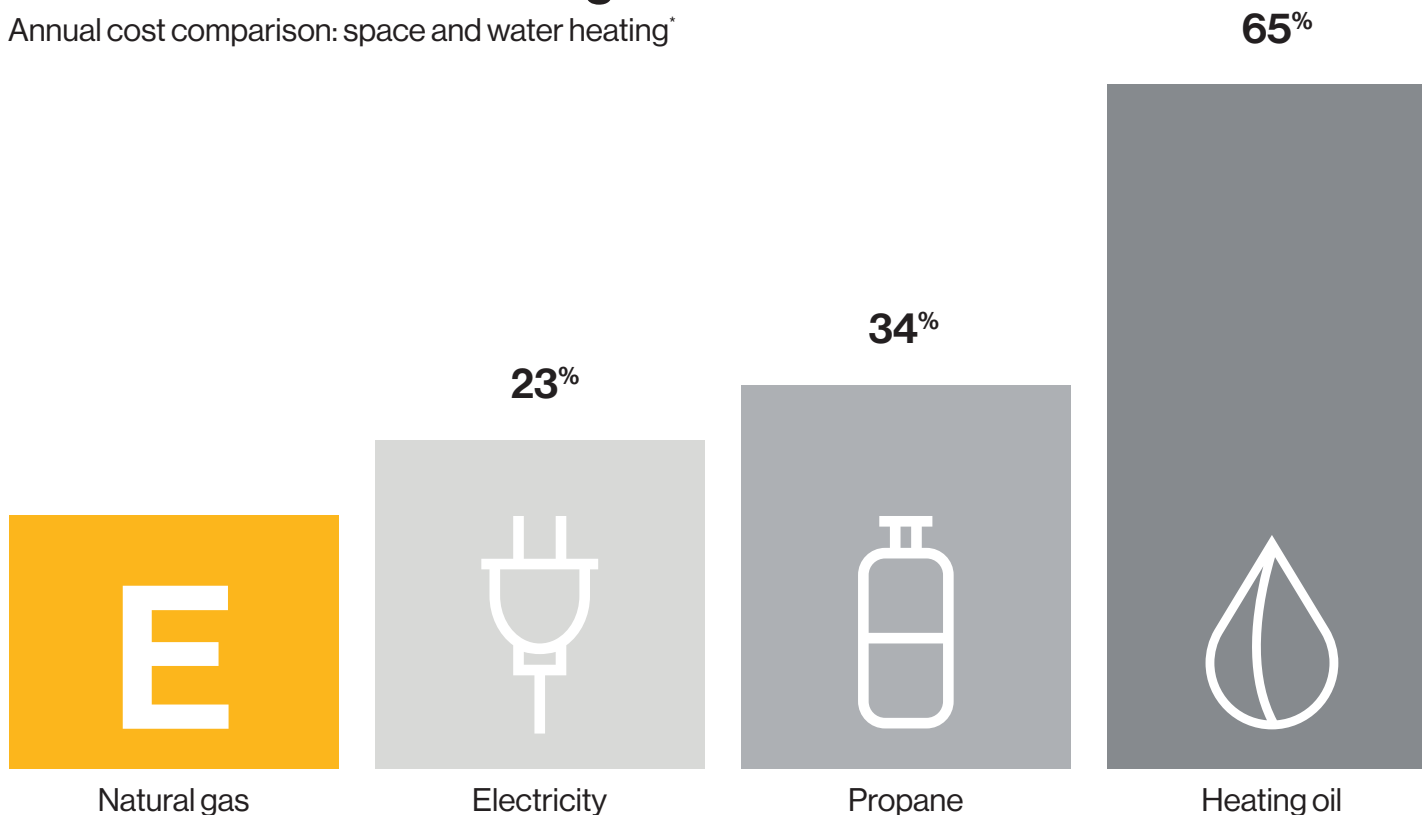
Cost and benefits

How much can you save each year?

Lower costs, lower emissions, more convenience and peace of mind.

Residential annual heating bills

Annual cost comparison: space and water heating*



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Bring home all the benefits



More affordable

Compared to other fuels and electricity, natural gas is the most cost-effective way to heat your home and water.



Comfort and convenience

Never worry about running out of fuel or waiting for deliveries again.



Versatile and efficient

From fireplaces to clothes dryers, natural gas can make your home more comfortable and enjoyable.



Lower carbon emissions

Natural gas can help reduce your home's carbon footprint.

Billing and charges

Where does your money go?

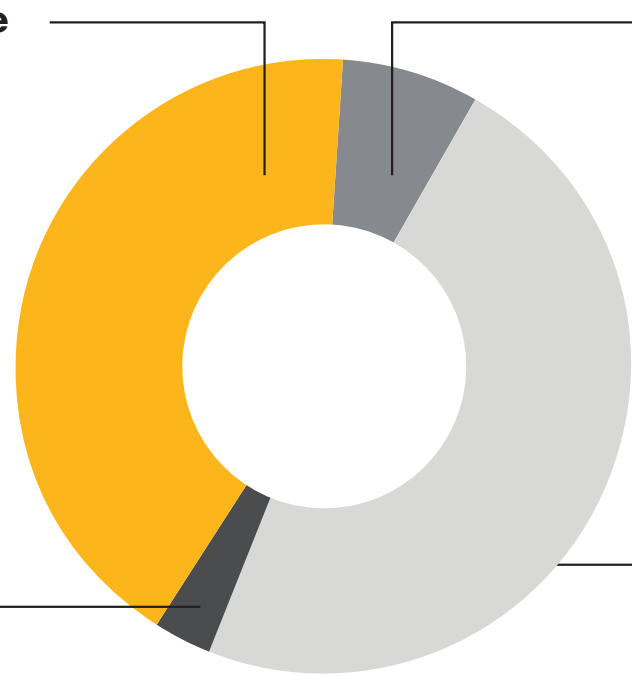
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Expansion Surcharge

The fairest way to cover the infrastructure costs of expanding natural gas service.

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Natural gas rates vary by season—you pay what we pay.



Customer Charge

This is a fixed \$23.98* amount that pays for 24/7 emergency response and other services.

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Supply, Delivery and Transportation Charges

These cover the costs to buy and deliver natural gas to your home.

Frequently asked questions

Q: Why do I have to pay an additional charge towards the construction costs of the project?

A: For us to extend natural gas to rural areas where the cost of building the infrastructure is more than the revenue it generates, the Ontario Energy Board approved an additional expansion surcharge. This is a variable rate charge, based on your usage, of \$0.23/cubic metre of natural gas used. Since homes use more natural gas in colder months, the surcharge will be higher in winter. It will appear as a separate line item on your monthly bill for up to 40 years.

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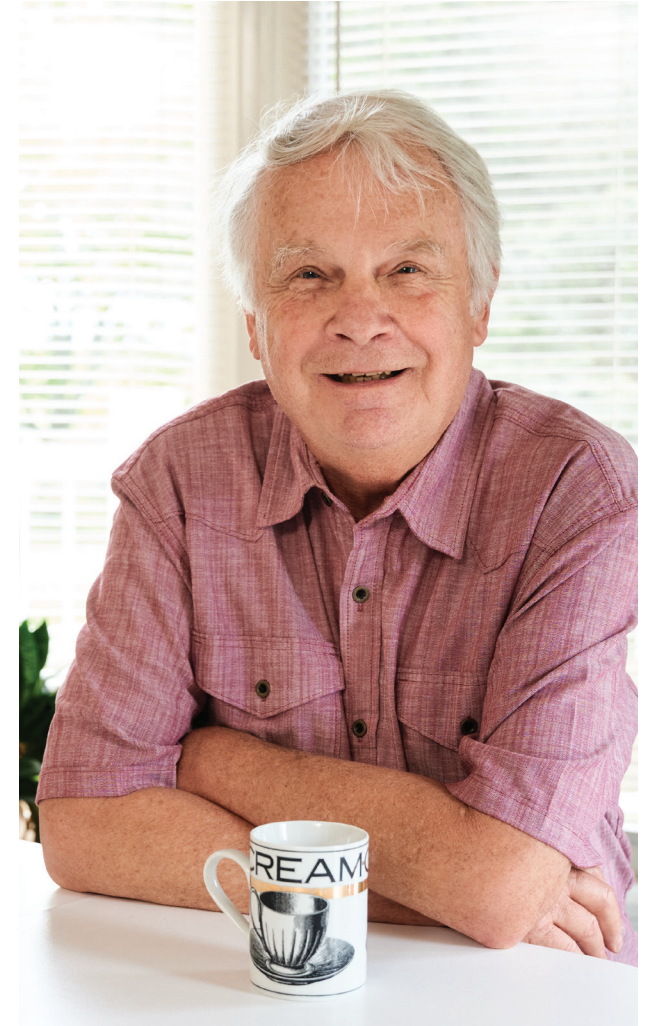
“We’ve saved all kinds of money by converting to natural gas, especially over the cost of hydro these days. It just made sense.”

**– Phil Dewsnap,
Homeowner,
Fenelon Falls**



“I live in a rural region. That means I have my own septic, my own water, and if things don’t work, I’m in real trouble. Natural gas has helped me be more independent and I saved a really good buck.”

– John Powell, Homeowner, Scugog Island



“The advice I would give others is to convert to natural gas. We’ve seen a lot of energy savings, the conversion was simple and you get some extra money in your pocket, so it’s worth doing.”

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5 simple steps to switch

It's always best to complete your application for natural gas service as early as possible. This helps us to ensure you are included in our planning process.



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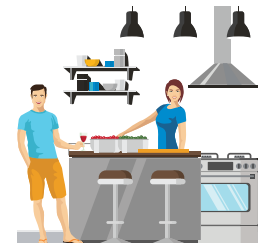
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You will be provided details on the expansion surcharge, which will fluctuate monthly based on your natural gas use. Even with this surcharge, you can still save significantly every year by switching to natural gas.



4. After we install the natural gas service

Contact your contractor to arrange for the gas meter installation and conversion of your natural gas equipment.



5. The final step

Your new natural gas equipment will be turned on and inspected as required by the Technical Standards and Safety Act.

Natural gas service installation policy

Enbridge Gas will provide and install at no cost, one service line per civic address to new customers which will include up to 30 metres of laid pipe and anything beyond that would be \$45 per metre (plus applicable taxes). Call your local heating, ventilation and air conditioning (HVAC) provider for an assessment and to submit an application for gas service.

IMPORTANT!

Do not disconnect your existing fuel source or remove any equipment until your new natural gas service and gas meter have been installed.

Take the first step to savings

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Phone number

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Existing Secondary Heat Source

Signature

Date

Get in touch any time



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ENBRIDGE GAS

CE Selwyn Campaign

October 5, 2022



C O N T E X T

CE SELWYN CAMPAIGN

Concept 1: From pains to gains

We know that customers often make buying decisions based on emotions. In this concept, we focus on negative emotions (pain points) to hook interest initially, supported by the benefits of switching to natural gas.



C O N T E X T

Selwyn

Are you paying too much for home heating?

Now you can switch to natural gas and save up to 60%

You could cut your energy bills in half!

Why choose natural gas?



Save money compared to electricity, propane or oil.



Never run out of fuel or have to wait for deliveries again.



Make your home more comfortable with natural gas fireplaces, barbecues, clothes dryers and more.



Reduce your home's carbon footprint.

What your neighbours are saying



“We’ve seen a lot of energy savings since we converted. I think our first hydro bill when we moved in here was somewhere around \$800. Now we’re down, saved maybe \$1,100 or \$1,500 a year by converting to natural gas.”

Phil, Fenelon Falls




“It was costing me \$5,000 a year for oil fired heating, and now I’m paying 1,400 bucks a year from Enbridge. I’m sort of loving it.”

John, Scugog


Visit enbridgegas.com/savewithgas to calculate your savings.



Concept 1a — Social (Static)

 **Enbridge Gas**
Sponsored

Tired of high energy costs? Choose natural gas for lower energy bills and cleaner heating than propane, oil or wood. [116]



Save with natural gas

ENBRIDGEGAS.COM

Save up to 60% when you switch [30] [Learn More](#)

[Calculate your savings \[22\]](#)

Concept 1a — Social (Carousel)



Enbridge Gas

Sponsored

Selwyn—enjoy home comfort for less. Get lower energy bills and more peace of mind when you switch to natural gas. [113]



Save with natural gas

Inflation hitting your budget? [30]

Now you can hit back [20]

[Learn More](#)



A natural choice

Switch to natural gas and save up to 60% [40]

Cut costs and carbon [20]

[Learn More](#)



Natural gas—available soon!


Coming soon to Selwyn! [22]

Ready to switch? [17]


[Learn More](#)



Social—Video

 **Enbridge Gas**
Sponsored

See why Selwyn welcomes natural gas. It's more affordable, reliable and cleaner than propane, oil or wood. [106]



John Powell
Scugog

ENBRIDGEGAS.COM

Hear from others who've made the switch [40] [Learn more](#)

[Calculate your savings \[22\]](#)



Concept 1 — Google Discovery Image Options

Option 1

Option 2

Option 3

Option 4

Option 5



Google Discovery Copy

Short headline text – 5 variants (40 characters max)	Long headline text (90 characters max)	Description (90 characters max)	CTA:	Business name:	Destination URL:
Save big with natural gas (25)	See why Selwyn welcomes natural gas. It's affordable, reliable and cleaner. (75)	Save on energy bills with a cleaner and more convenient choice than oil, propane or wood. (86)	Learn more	Enbridge Gas	enbridgegas.com/savewithgas
Affordable energy can be yours (30)	Switch to natural gas to save up to 60 percent on energy bills and cut emissions too! (85)	Visit enbridgegas.com/savewithgas to calculate your savings and hear what others are saying. (89)			
Why choose natural gas? (23)	See why natural gas is Ontario's preferred choice and good news for Selwyn. (75)	Enjoy peace of mind and savings up to 60 percent when you switch—it's easy! (75)			
Tired of high energy costs? (28)	Home comfort doesn't need to be costly anymore—reliable natural gas is on the way! (84)	Never run out of fuel or have to wait for deliveries again. (58)			
Save on energy and emissions (28)	Good news for Selwyn—affordable, reliable, cleaner energy is coming soon! (73)	Reduce your energy bills by up to 60% with a cleaner choice than oil, propane or wood. (86)			



CE SELWYN CAMPAIGN

Concept 2: Welcome home neighbour

With a focus on optimism, warm welcomes and community connections this concept creates positive emotions. Cost savings and convenience close the deal.



C O N T E X T

Concept 2 — Social (Static)



Enbridge Gas
Sponsored

Selwyn—get ready to save up to 60 percent on energy bills when you switch to reliable, convenient natural gas. [110]



Selwyn

Natural gas is coming soon

ENBRIDGEGAS.COM

Cut energy bills in half when you switch [40] [Learn more](#)

Calculate your savings [22]



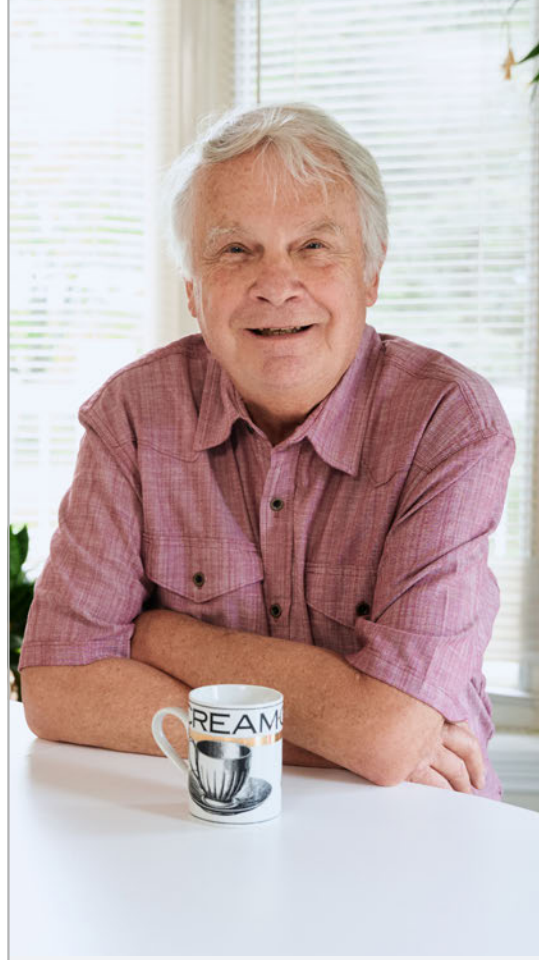
Concept 2 — Social (Carousel)



Enbridge Gas

Sponsored

Have you heard? Natural gas is coming to Selwyn! Find out why Ontarians choose Enbridge Gas. [92]



Save up to 60% on energy

Cheaper than propane, oil or wood [33]

Cut costs and carbon [20]

[Learn more](#)




A choice you can feel good about

Cleaner than propane, oil or wood [22]

Cut costs and carbon [20]

[Learn more](#)



Switch. Save. Smile.


Worry-free comfort and convenience [34]

Cut costs and carbon [20]


[Learn more](#)



Social (Video)

 **Enbridge Gas**
Sponsored

Still heating with oil or propane? Switch to natural gas and save up to 60 percent on your energy costs. [104]



Phil Dewsnap
Fenelon Falls

ENBRIDGEGAS.COM

Hear why your neighbours made the switch [40] [Learn more](#)

Cut costs and carbon [20]

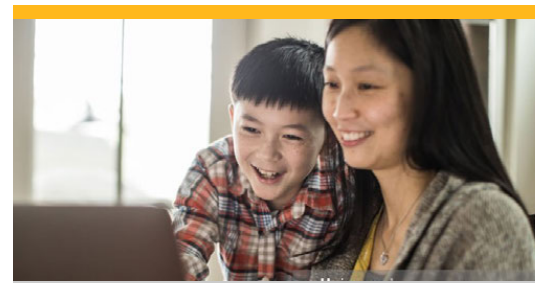
Concept 2 — Google Discovery Image Options

Option 1

Option 2

Option 3

Option 4



CE SELWYN CAMPAIGN

YouTUBE Companion Ads



C O N T E X T

The image shows a YouTube interface. At the top left is the YouTube logo with a search bar. The main video player shows an elderly man sitting in a chair, talking. A large play button is overlaid on the video. At the bottom of the video player is an advertisement overlay with the Enbridge logo, the text 'Make the switch', the URL 'enbridgegas.com/savewithgas', and a 'Start now' button. To the right of the video player is a sidebar with another advertisement for Enbridge gas, featuring the headline 'Save up to 60% Affordable natural gas' and a 'Start now' button. Below the ads are video recommendations with 'Up next' and 'AUTOPLAY' controls.

Long Headline Text:

Selwyn: Are you paying too much for home heating? (59/90)

Description Text: Make the switch to natural gas and save up to 60 percent each year! (67/70)

Call-to-Action Text: Start now (10/10)

Headline Text: Make the switch (15/15)

Display URL: enbridgegas.com/savewithgas



YouTube Video Action Ads + Companion Ads

The screenshot shows a YouTube video player with a video of Phil Felton Falls. The video has a large play button overlay. In the bottom left corner of the video, there is a text overlay: "Phil Felton Falls" and "Save on heating" with the Enbridge logo and the URL "enbridgegas.com/savewithgas" and a "Start now" button. In the top right corner of the video player, there is another text overlay: "How much could you save? Switch to natural gas" with the Enbridge logo and a "Start now" button. The video player interface includes a search bar at the top, navigation icons (home, grid, notifications, profile), and an "Up next" section with an "AUTOPLAY" toggle.

Long Headline Text:

Selwyn: Now you can switch to natural gas and save up to 60 percent each year! (88/90)

Description Text: Cut your energy bills in half with affordable, reliable natural gas. (68/70)

Call-to-Action Text: Start now (10/10)

Headline Text: Save on heating (15/15)

Display URL: enbridgegas.com/savewithgas



YouTube Video Action Ads + Companion Ads

The image shows a YouTube video player interface. At the top left is the YouTube logo. A search bar is in the top center. On the right are icons for camera, grid, notifications, and a profile picture. The video content is a promotional advertisement for Enbridge. It features a collage of images: a water tower with the text 'MISSISSAUGAS OF SCUGOG ISLAND FIRST NATION', a scenic view of a lake and forest, an aerial view of a residential area, and a close-up of a rocky shore with driftwood. The main headline is 'We're happy to bring natural gas to communities'. A call-to-action button at the bottom left says 'Start now' with the URL 'enbridgegas.com/savewithgas'. The Enbridge logo is in the bottom right corner of the video frame. To the right of the video player is a companion ad section. The top ad asks 'How much could you save? Switch to natural gas' with the Enbridge logo. Below it is another ad that says 'Save on heating' with a 'Start now' button and the URL 'enbridgegas.com/savewithgas'. Below these are 'Up next' video recommendations with a toggle for 'AUTOPLAY'.


Long Headline Text:
Natural gas is reliable, convenient and much more affordable than other energy options. (87/90)

Description Text:
Selwyn: Switch to natural gas and save up to 60% a year! (68/70)

Call-to-Action Text: Start now (10/10)
Headline Text: Save on heating (15/15)

Display URL: enbridgegas.com/savewithgas





**Are you paying
too much for
home heating?**

**Come visit us to
see how much
you can save!**

Tuesday, Feb. 7
12 p.m. – 7 p.m.

**Learn about the benefits of switching to
natural gas and how to get connected.**

Stop by our Information Session at:

Community Hall

836 Charles St, Bridgenorth

Drop by to have all **your questions answered**
and let us know if you're interested in connecting
to natural gas.

Talk about potential savings
on your home energy bills.

Connect with us at: **ceapplications@enbridge.com**



Mohawks of the Bay of Quinte and Shannonville Community Expansion Project

Virtual Information Session
May 16 – 29

Mohawks of the Bay of Quinte and Shannonville Community Expansion Project

Virtual Information Session

May 16 – 29

Mohawks of the Bay of Quinte and Shannonville Community Expansion Project

Open House

Location

Mohawks Bay of Quinte
Community Centre (upstairs)
1807 York Road, Deseronto

Date and time

May 30, 4 – 7 p.m.



Marketing Creative Approval Sign Off Document



Project name:	
Date:	
Client:	
Marketing Lead:	

Approvals	Date	Name
Attachment Lead:		

Prints	
Print quantity:	

Shipping information	
Ship to (name):	
Ship to (address):	
Phone (for courier):	
Date (to arrive):	

How to start saving with natural gas

Safe. Reliable. Affordable. Abundant.

- 1 Inquire with us**

Visit enbridgegas.com/savewithgas to review project details, calculate your estimated savings and engage with our project team to answer any of your questions.
- 2 Get an estimate from your local heating contractor**

Once you have made your decision to convert, your contractor will submit the natural gas service application on your behalf.

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A member of our team will contact you to coordinate locating and marking all existing underground utilities.
- 3 Acknowledge your account details**

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Your new natural gas equipment will be turned on and inspected as required by the Technical Standards and Safety Act.

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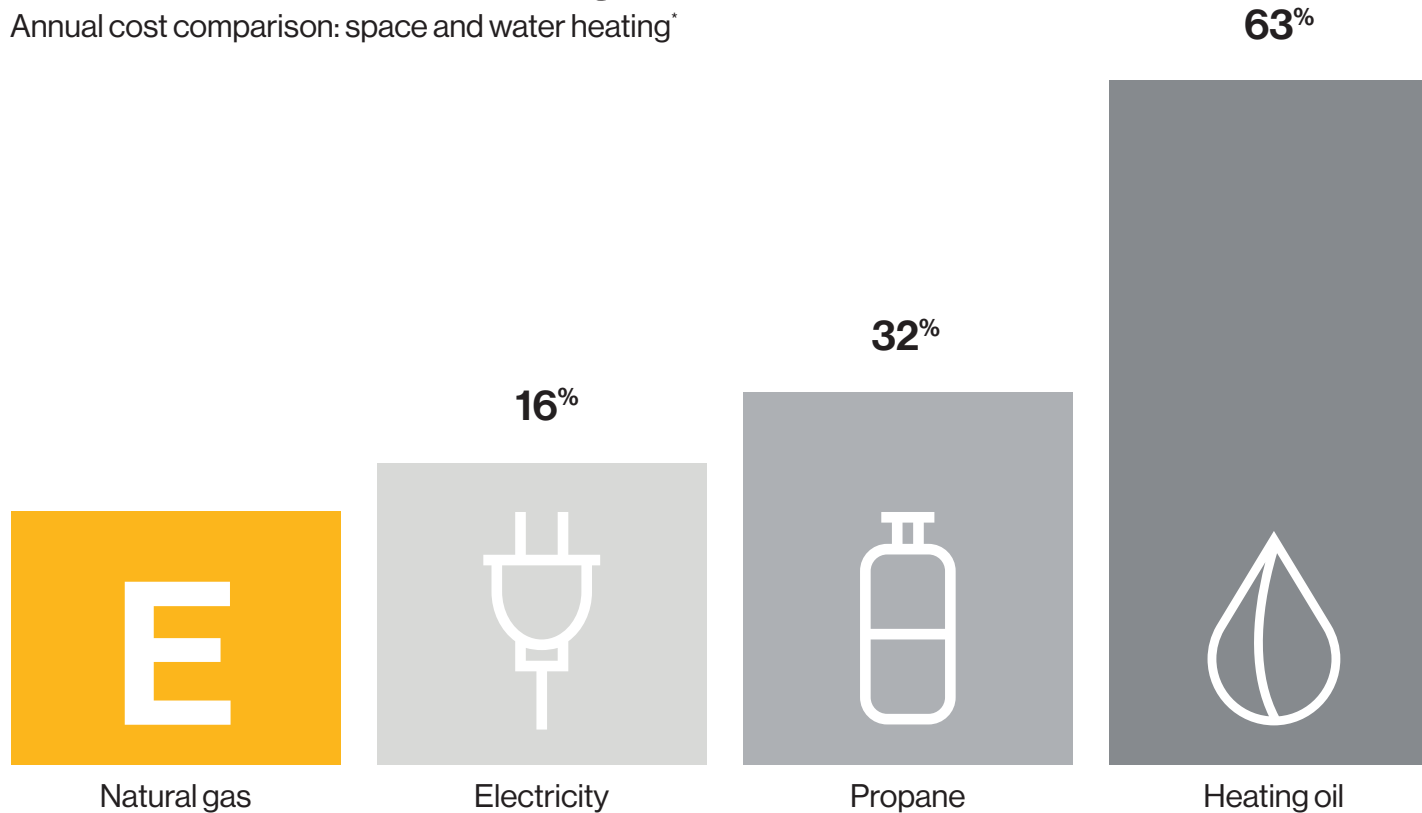
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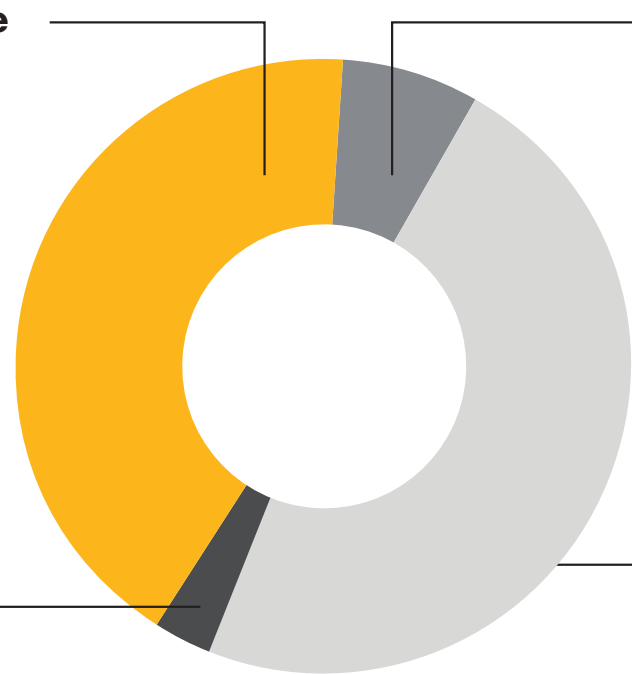
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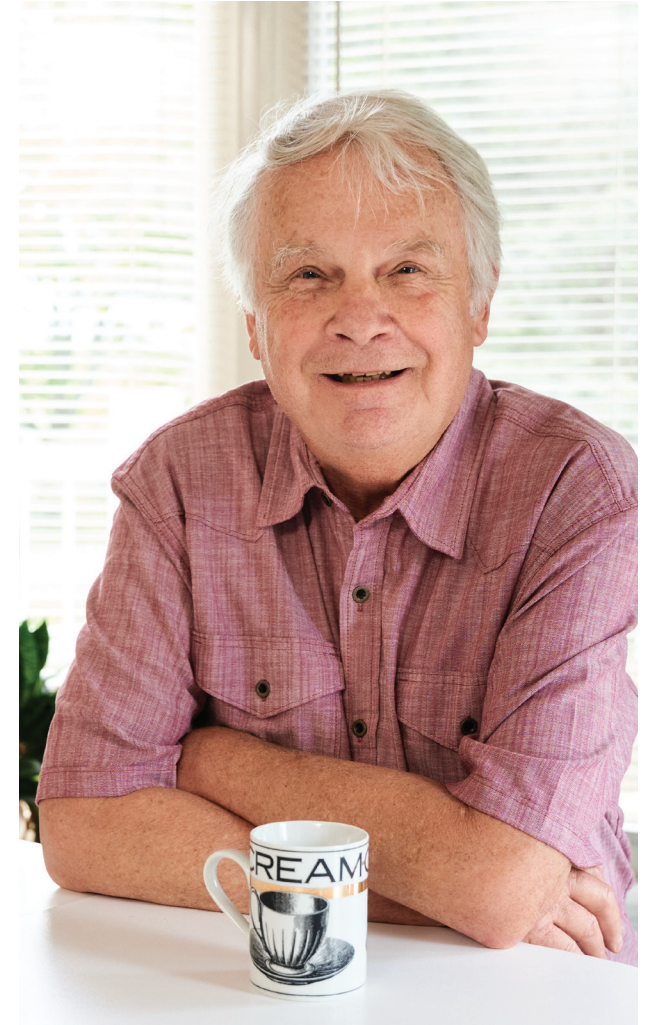
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IMPORTANT!

Do not disconnect your existing fuel source or remove any equipment until your new natural gas service and gas meter have been installed.

Take the first step to savings

Let us know you're interested in connecting to natural gas



Please send the following information to ceapplications@enbridge.com and a Community Expansion Advisor will contact you soon.

Name (please print)

Address

Phone number

Email address

Existing Primary Heat Source

Existing Secondary Heat Source

Signature

Date

Get in touch any time



Prefer postal mail?

Mail your completed expression of interest to us at:

Enbridge Gas
Community Expansion
PO Box 618
Bobcaygeon, ON K0M 1A0



Questions?

We're here for you.

Contact a Community Expansion Advisor:

1-833-356-2689
ceapplications@enbridge.com

Completing this Expression of Interest Card is not an application for natural gas, or a binding contract by either you or Enbridge Gas for natural gas service.

Are you paying too much for home heating?

Come visit us to see how much you can save!

Wednesday, Feb. 1
2 p.m. – 7 p.m.

Thursday, Feb. 2
10 a.m. – 3 p.m.

Learn about the benefits of switching to natural gas and how to get connected.

Stop by our Information Session at:

Mohawk Community Centre — Upper floor
1807 York Rd. Deseronto

Drop by to have all **your questions answered** and let us know if you're interested in connecting to natural gas.

Talk about potential savings on your home energy bills.

Connect with us at: ceapplications@enbridge.com



Choose to pay less for energy

Save up to 65% each year
by switching to natural gas

What's inside:



See how
much you
can save



5-step
guide to get
connected



Ready to cut energy bills in half?

Good news— natural gas is a convenient solution to help you save. This package will guide you through everything you need to know about connecting your home or business and all the benefits of affordable, reliable natural gas.

Save up to 65 percent* each year

Compared to electricity, propane or oil, switching to natural gas could save you on home and water heating costs year round. It's more convenient: you'll never run out of fuel or wait for trucks to arrive.

Lower carbon emissions

Natural gas is cleaner than other fuels and can help reduce your home's carbon footprint.

It's easy to get started

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See how much you can save

Use our online calculator to see how much you can save by switching to natural gas. Enter your home's size, age and a few more details to get a personalized estimate of annual savings.

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Ahmed Al-Amry

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Supervisor, Community Expansion
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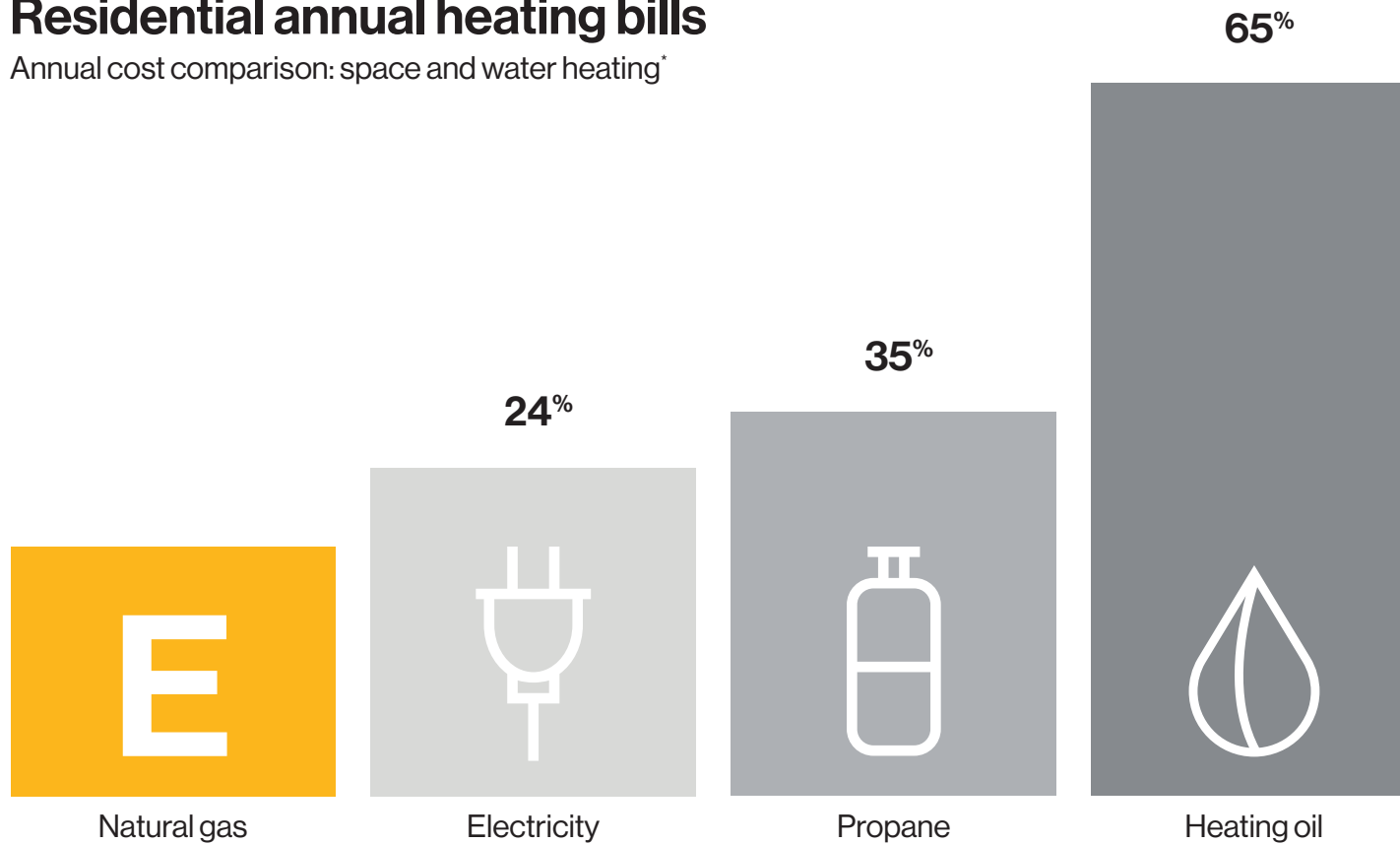
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How much can you save each year?

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Residential annual heating bills

Annual cost comparison: space and water heating*



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More affordable

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Comfort and convenience

Never worry about running out of fuel or waiting for deliveries again.



Versatile and efficient

From fireplaces to clothes dryers, natural gas can make your home more comfortable and enjoyable.



Lower carbon emissions

Natural gas can help reduce your home's carbon footprint.

Billing and charges

Where does your money go?

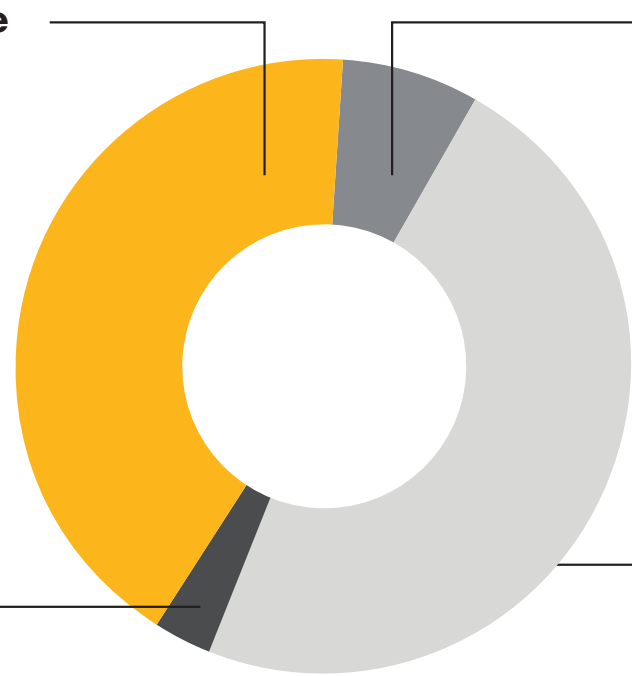
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Supply, Delivery and Transportation Charges

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Frequently asked questions

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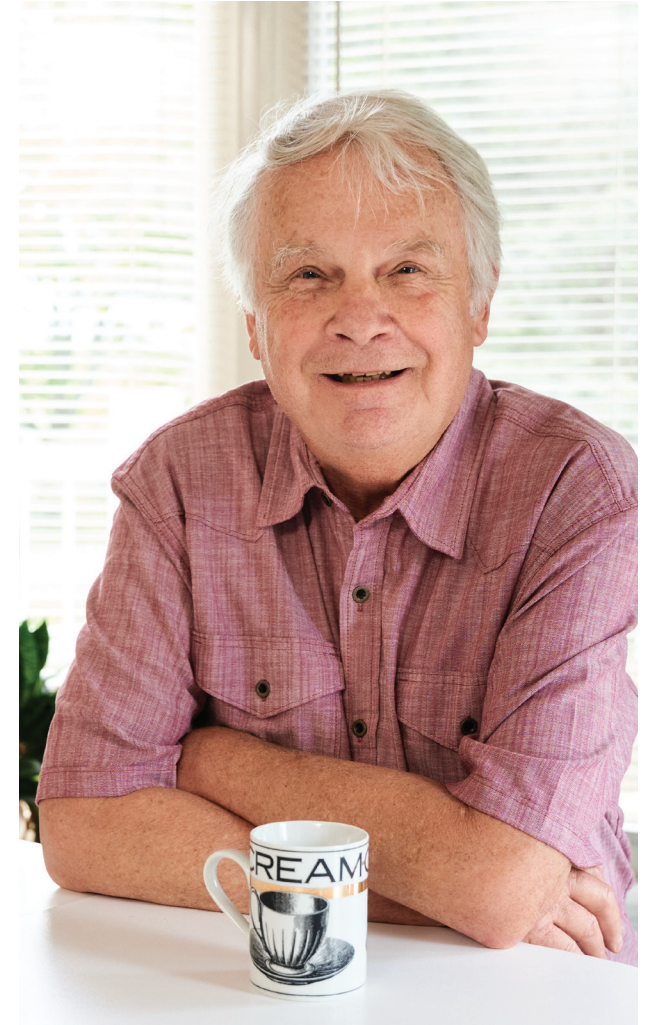
“We’ve saved all kinds of money by converting to natural gas, especially over the cost of hydro these days. It just made sense.”

**– Phil Dewsnap,
Homeowner,
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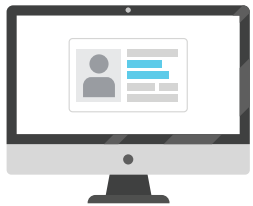
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3. Acknowledge your account details

You will receive a confirmation email with a verification link prompting you to validate the following: your service address, homeowner and billing information.

You will also be provided details on the expansion surcharge, which will fluctuate monthly based on your natural gas use. Even with this surcharge, you can still save significantly every year by switching to natural gas.



4. After we install the natural gas service

Contact your contractor to arrange for the installation and conversion of your natural gas equipment.



5. The final step

Contact 1-877-362-7434 at least 48 hours in advance to arrange your meter activation and final inspection of the natural gas equipment.

Natural gas service installation policy

Enbridge Gas will provide and install at no cost, one service line per civic address to new customers provided that the distance between the Owner's property line and the front wall of house/building is 20 metres or less. Services in excess of this distance will result in additional charges of \$32 per metre (plus applicable taxes). Call your local heating, ventilation and air conditioning (HVAC) provider for an assessment and to submit an application for gas service.

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Phone number

Email address

Existing primary heat source

Existing secondary heat source

Signature

Date

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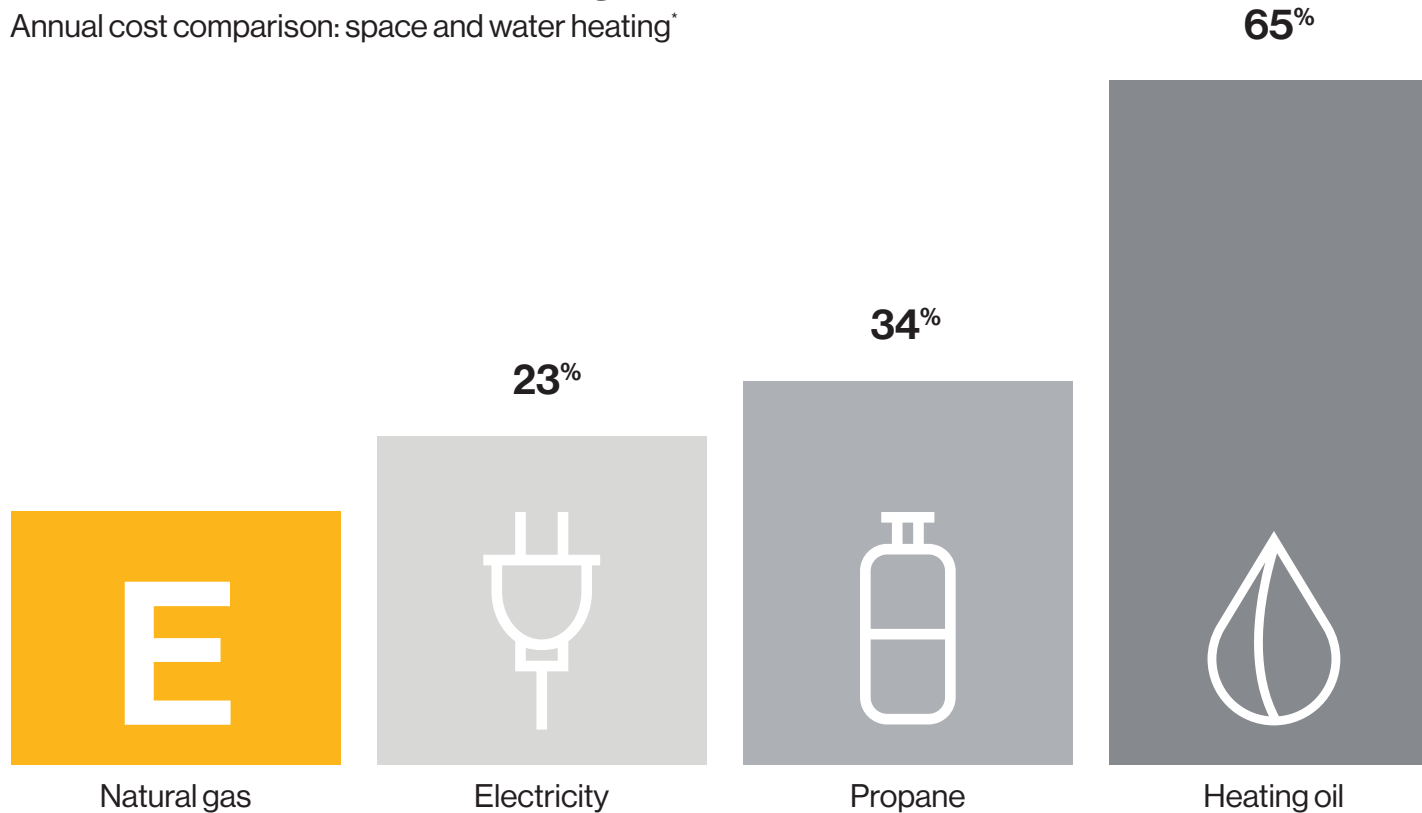
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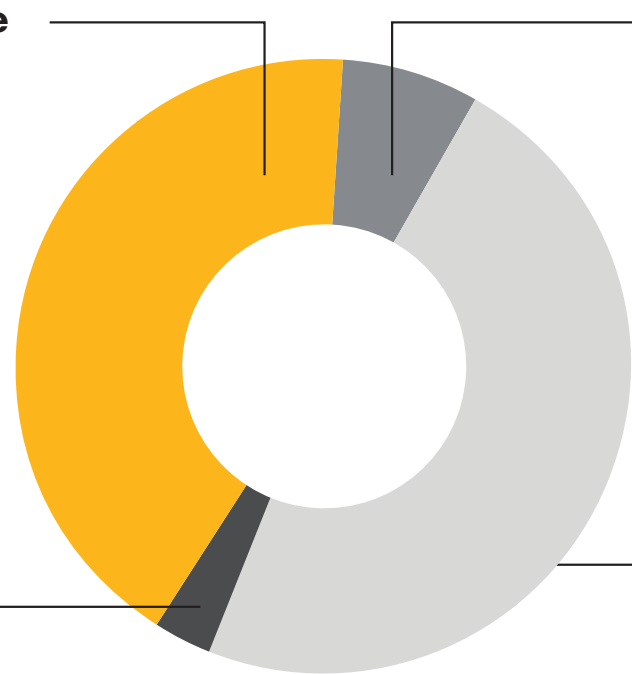
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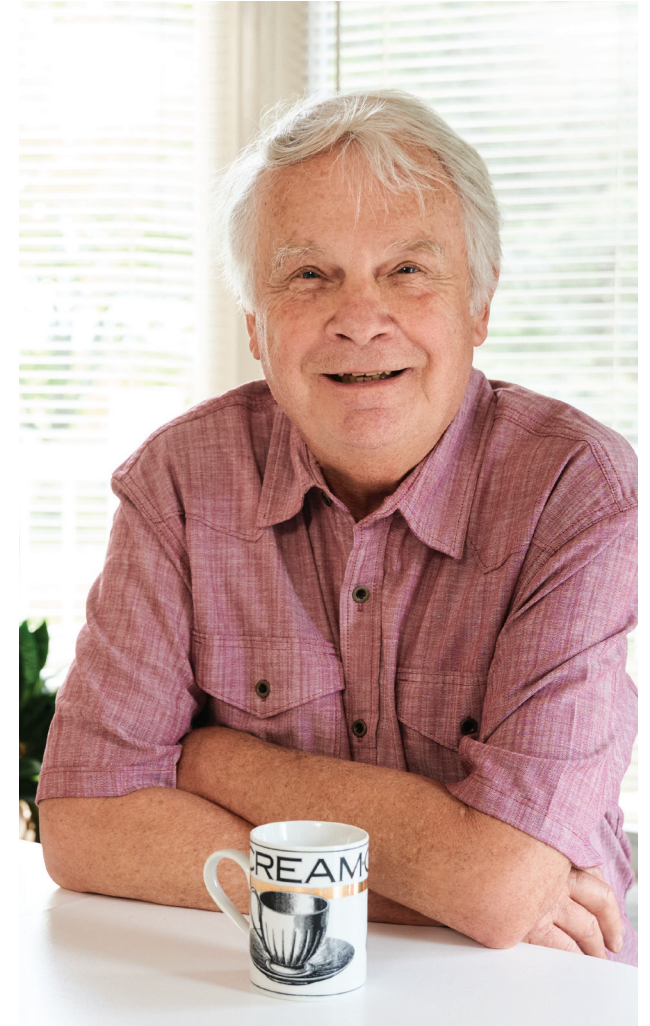
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Contact your contractor to arrange for the gas meter installation and conversion of your natural gas equipment.



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Prize draw at 7 p.m.

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Marketing Creative Approval Sign Off Document



Project name:	
Date:	
Client:	
Marketing Lead:	

Approvals	Date	Name
Attachment Lead:		

Prints	
Print quantity:	

Shipping information	
Ship to (name):	
Ship to (address):	
Phone (for courier):	
Date (to arrive):	

How to start saving with natural gas

Safe. Reliable. Affordable. Abundant.

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Hidden Valley

Community Expansion Project



**Virtual
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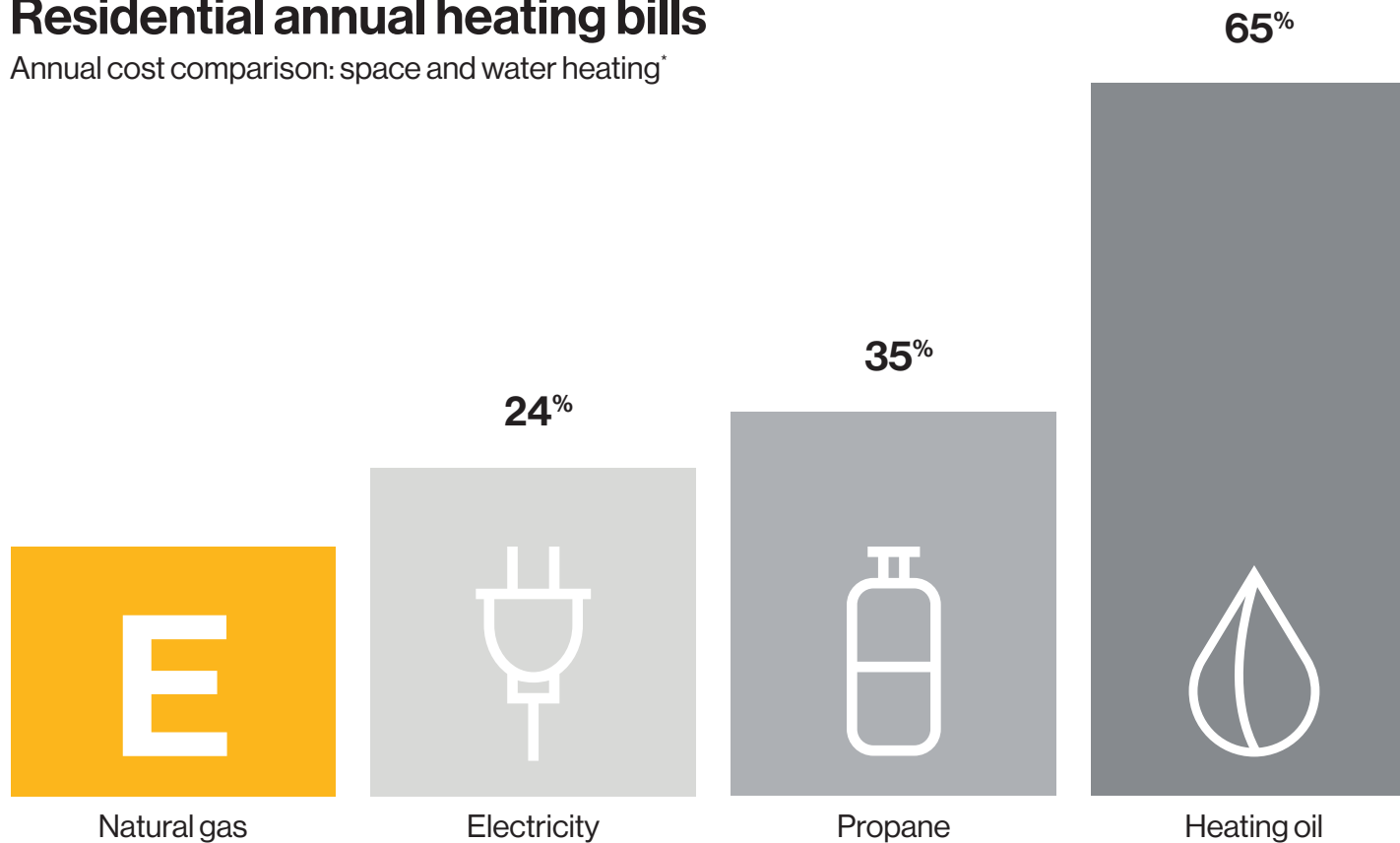
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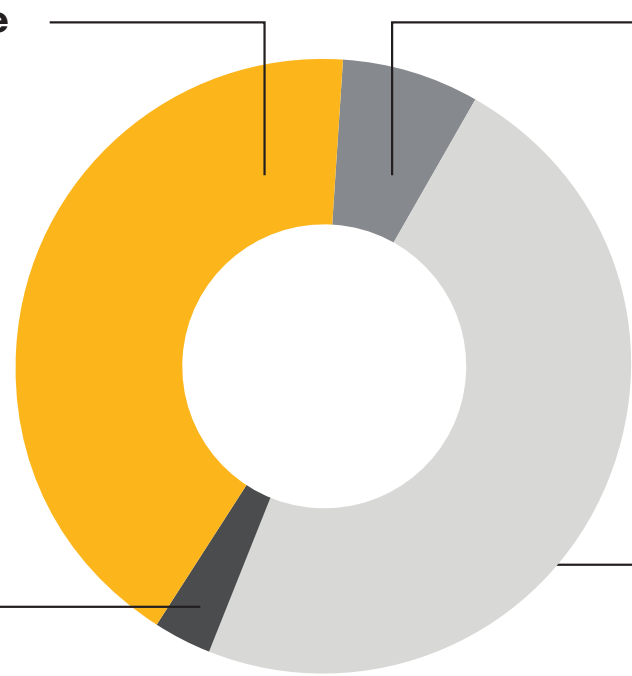
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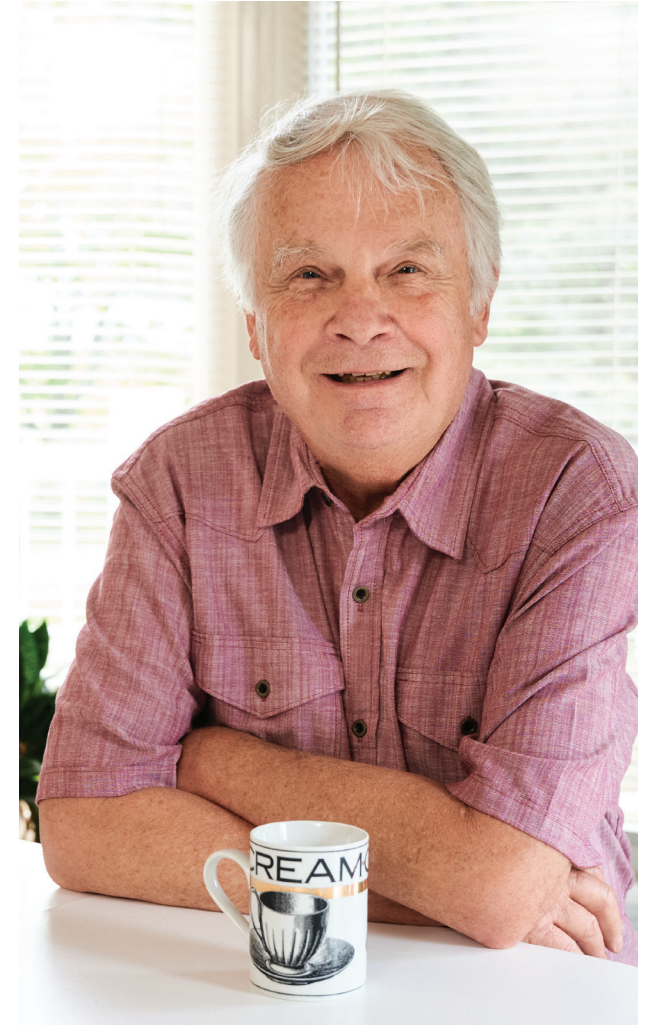
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Contact 1-877-362-7434 at least 48 hours in advance to arrange your meter activation and final inspection of the natural gas equipment.

Natural gas service installation policy

Enbridge Gas will provide and install at no cost, one service line per civic address to new customers provided that the distance between the Owner's property line and the front wall of house/building is 20 metres or less. Services in excess of this distance will result in additional charges of \$32 per metre (plus applicable taxes). Call your local heating, ventilation and air conditioning (HVAC) provider for an assessment and to submit an application for gas service.

IMPORTANT!

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Take the first step to savings

Let us know you're interested in connecting to natural gas



Please send the following information to ceapplications@enbridge.com and a Community Expansion Advisor will contact you soon.

Name (please print)

Address

Phone number

Email address

Existing primary heat source

Existing secondary heat source

Signature

Date

Get in touch any time



Prefer postal mail?

Mail your completed expression of interest to us at:

Enbridge Gas
Community Expansion
PO Box 618
Bobcaygeon, ON K0M 1A0



Questions?

We're here for you.

Contact a Community Expansion Advisor:

1-833-356-2689
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Choose to pay less for energy

Save up to 65% each year
by switching to natural gas

What's inside:



See how
much you
can save



5-step
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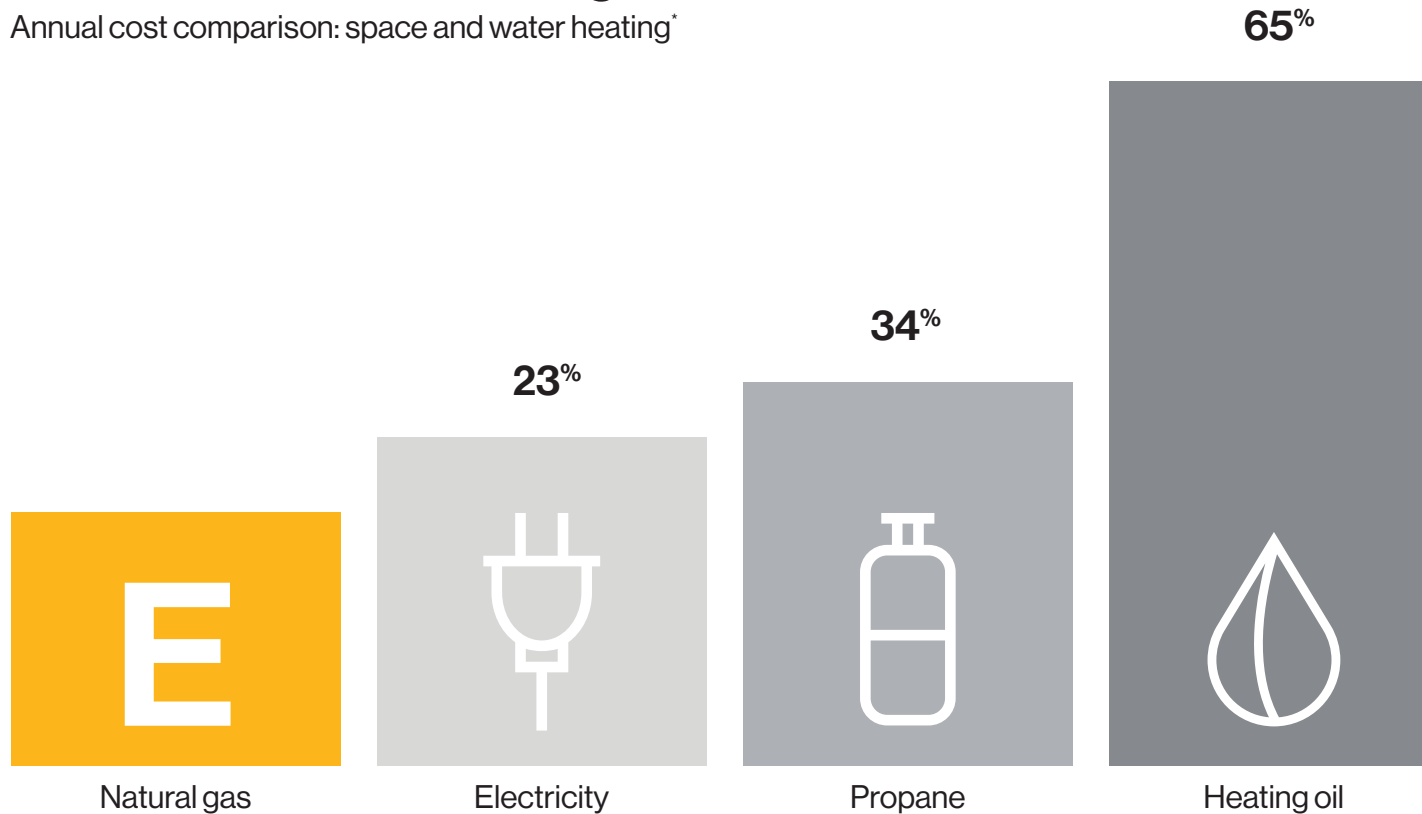
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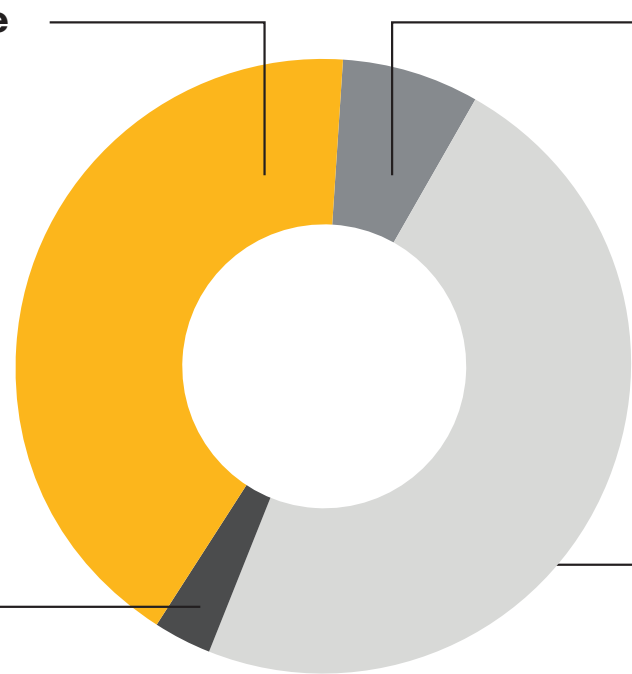
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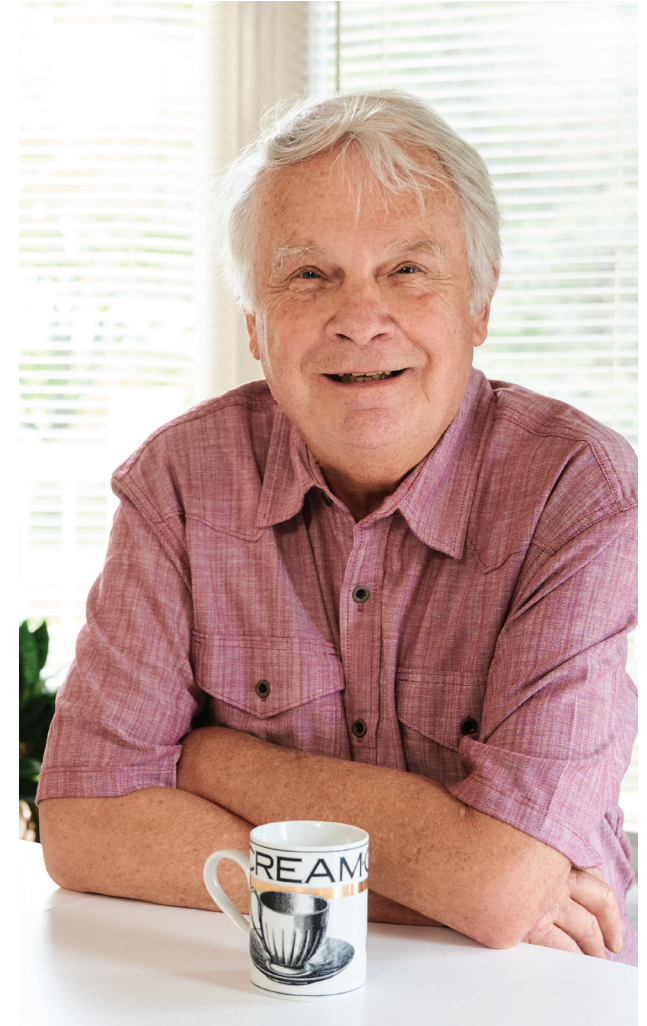
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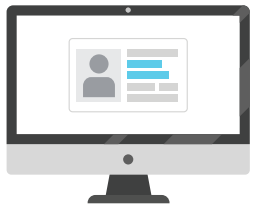
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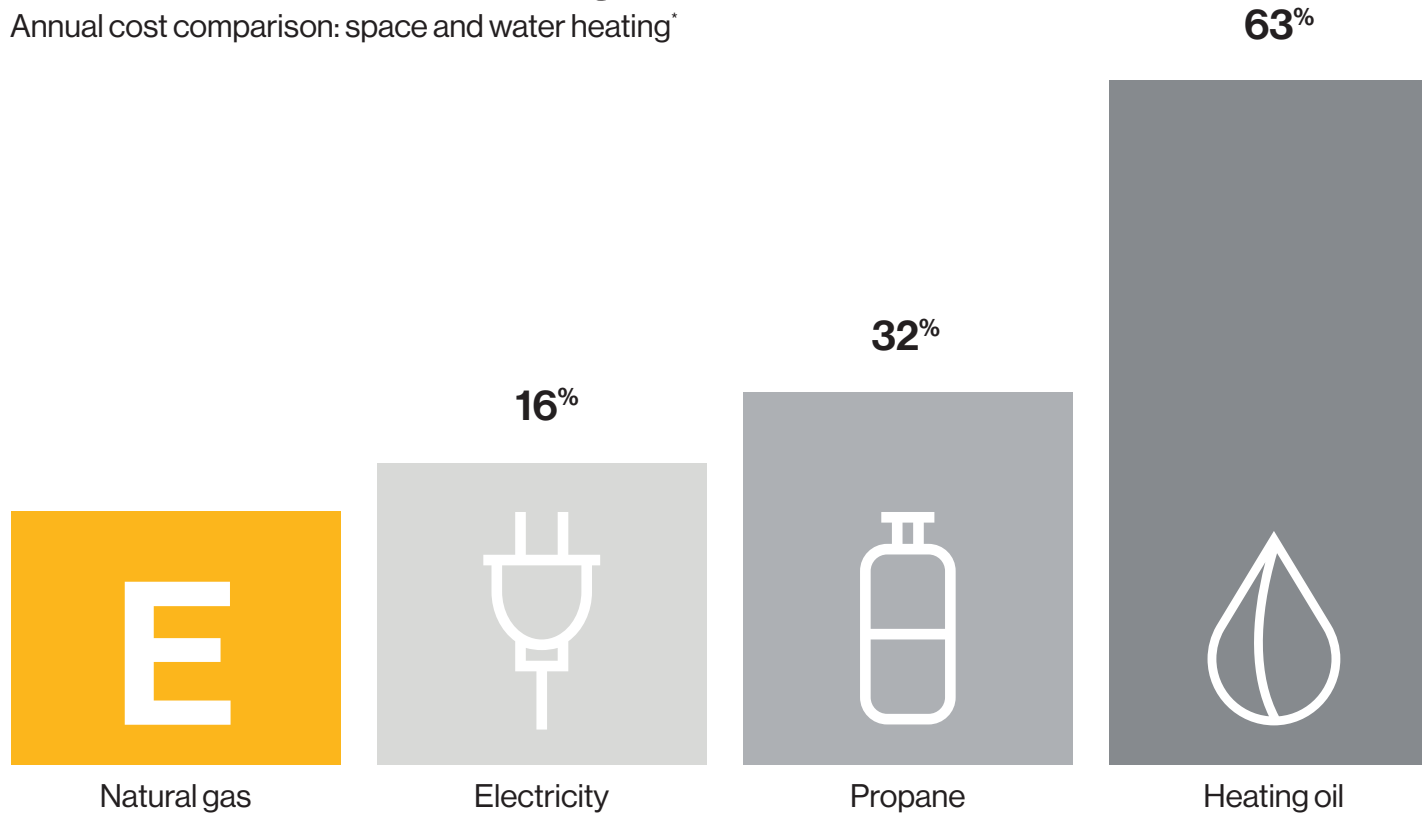
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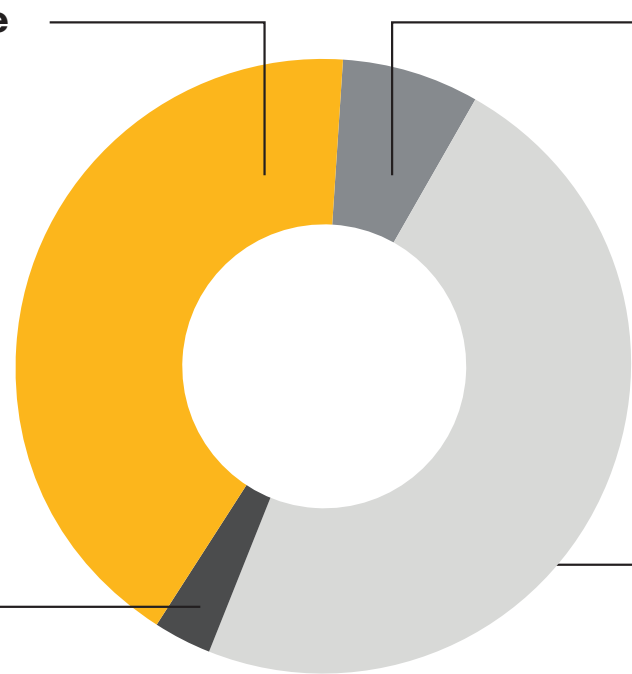
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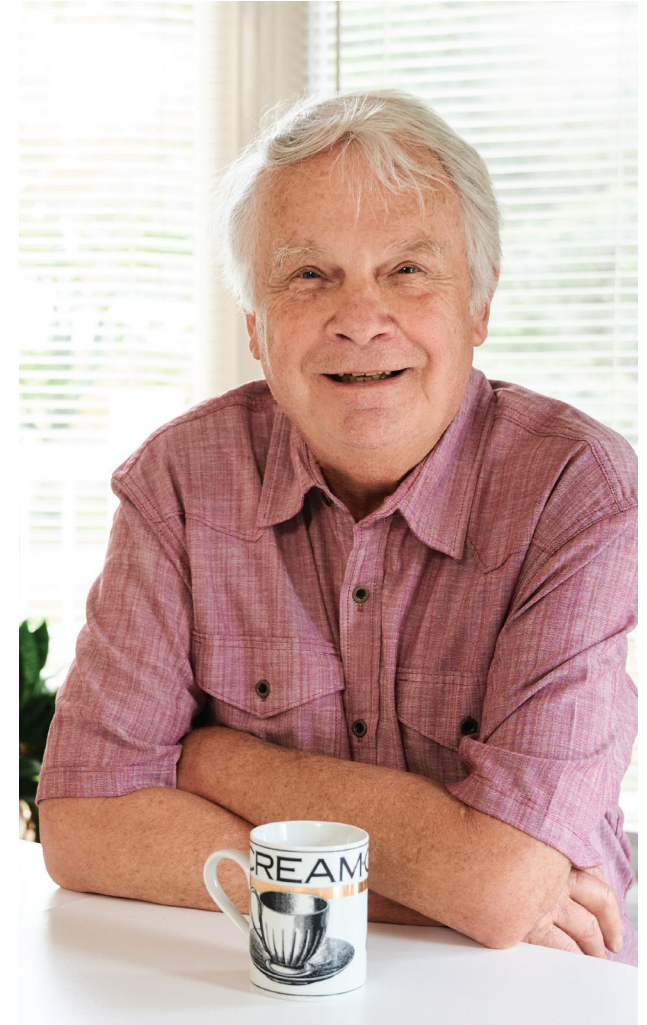
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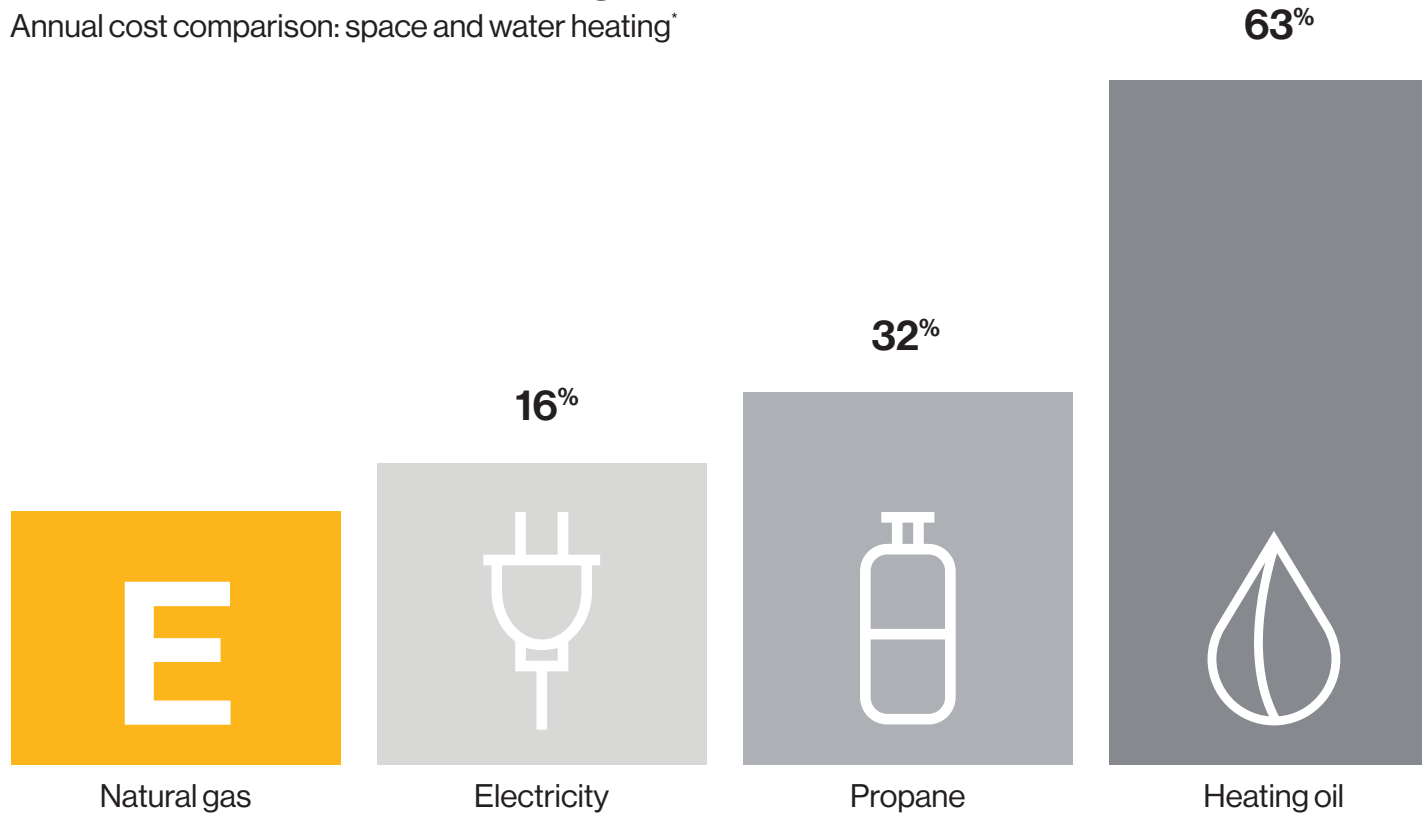
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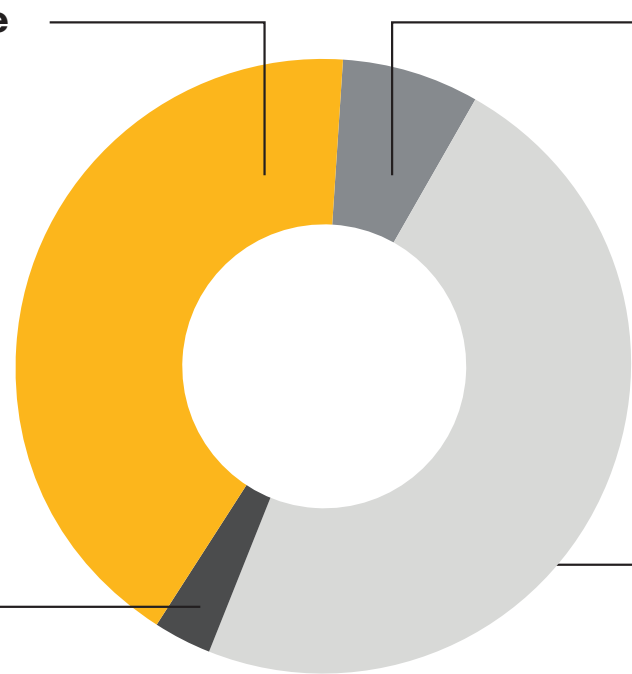
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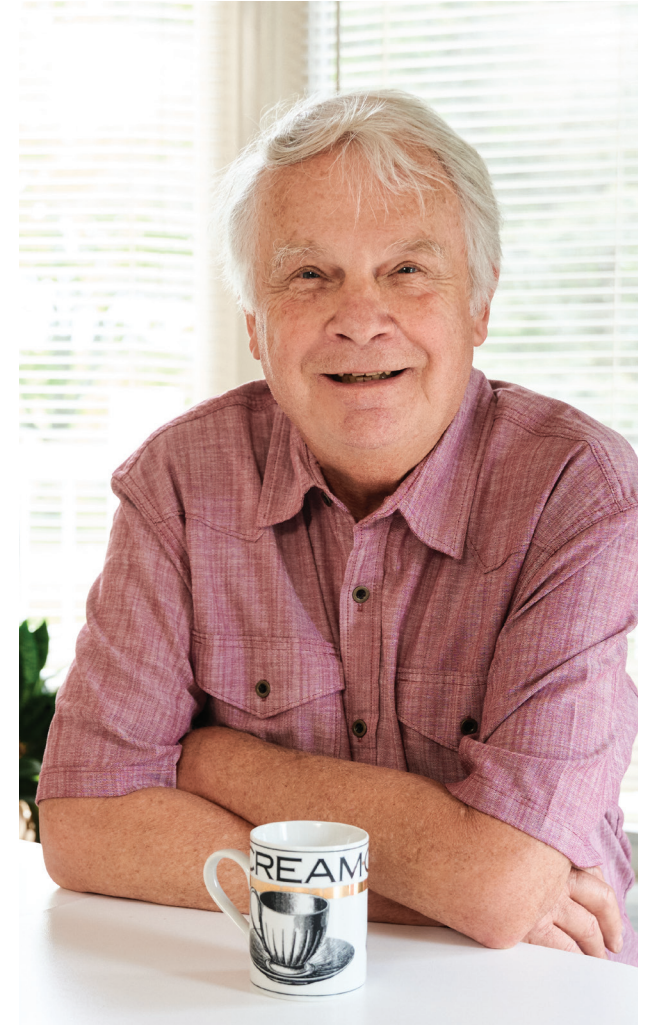
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Information session

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Saturday, Feb. 11 10 a.m.–3 p.m.

Hidden Valley Resort

1755 Valley Rd, Huntsville



Bobcaygeon
Information Session Advertisement
Kiawartha This Week
November 2022

Ready to cut your energy bills in half?

**Bobcaygeon Community
Expansion Information Session**

**Thursday, Dec. 1
5 p.m. – 8 p.m.**

Learn about the benefits of switching to natural gas and how to get connected.

Stop by our Information Session at:

Royal Canadian Legion Branch 239
96 King St. E, Bobcaygeon

Representatives will be available to answer all your questions:

Drop by to have all **your questions answered** and let us know if you're interested in connecting to natural gas.

Talk about potential savings on your home energy bills.

Connect with us at: ceapplications@enbridge.com



Bobcaygeon
Attachment Package
November 2022 – January 2023

Take the first step to savings

Let us know you're interested in connecting to natural gas



Please send the following information to ceapplications@enbridge.com and a Community Expansion Advisor will contact you soon.

Name (please print)

Address

Phone number

Email address

Existing Primary Heat Source

Existing Secondary Heat Source

Signature

Date

Completing this Expression of Interest Card is not an application for natural gas, or a binding contract by either you or Enbridge Gas for natural gas service. The Expression of Interest Card is intended to help us understand community interest in converting to natural gas if it were to become available. Pending regulatory approvals, we anticipate that we will begin to accept natural gas applications for this expansion project in summer 2023.

Get in touch any time



Prefer postal mail?

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Community Expansion
PO Box 618
Bobcaygeon, ON K0M 1A0



Questions?

We're here for you.

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1-833-356-2689
ceapplications@enbridge.com

Choose to pay less for energy

—
Save up to **55%** each year
by switching to natural gas



Ready to cut energy bills in half?

Good news—natural gas is a convenient solution to help you save. This package will guide you through everything you need to know about connecting your home or business and all the benefits of affordable, reliable natural gas.

Save up to 55 percent* each year

Compared to electricity, propane or oil, switching to natural gas could save you on home and water heating costs year round. It's more convenient: you'll never run out of fuel or wait for trucks to arrive.

Lower carbon emissions

Natural gas is cleaner than other fuels and can help reduce your home's carbon footprint.

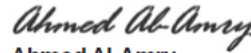
It's easy to get started

Follow our simple five-step guide on page six to see how the connection process works.

See how much you can save

Use our online calculator to see how much you can save by switching to natural gas. Enter your home's size, age and a few more details to get a personalized estimate of annual savings.

Calculate your savings by visiting enbridgegas.com/savewithgas and finding your community page to use the calculator.



Ahmed Al-Amry
Supervisor, Community Expansion
Enbridge Gas



Get in touch any time

For construction updates or questions about the steps to connect to natural gas, personalized cost savings and more, contact one of our Community Expansion Advisors.

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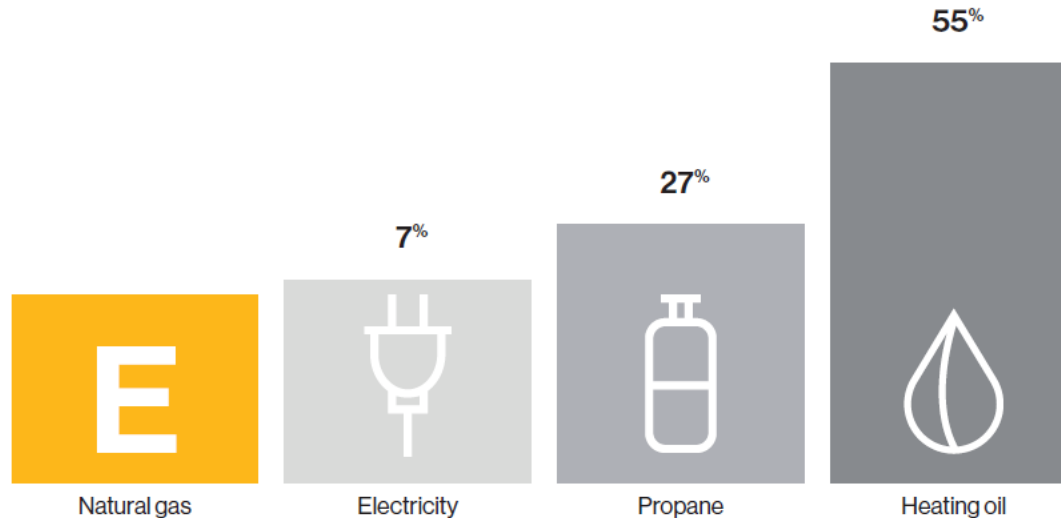
Cost and benefits

How much can you save each year?

Lower costs, lower emissions, more convenience and peace of mind.

Residential annual heating bills

Annual cost comparison: space and water heating*



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Bring home all the benefits



More affordable

Compared to other fuels and electricity, natural gas is the most cost-effective way to heat your home and water.



Comfort and convenience

Never worry about running out of fuel or waiting for deliveries again.



Versatile and efficient

From fireplaces to clothes dryers, natural gas can make your home more comfortable and enjoyable.



Lower carbon emissions

Natural gas can help reduce your home's carbon footprint.

Billing and charges

Where does your money go?

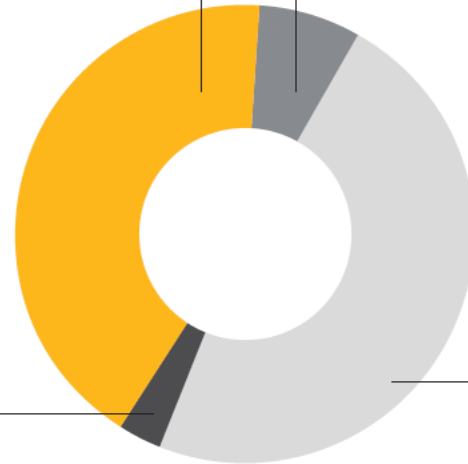
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The fairest way to cover the infrastructure costs of expanding natural gas service.

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Natural gas rates vary by season—you pay what we pay.



Customer Charge

This is a fixed \$22.12* amount that pays for 24/7 emergency response and other services.

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Supply, Delivery and Transportation Charges

These cover the costs to buy and deliver natural gas to your home.

Frequently asked questions

Q: Why do I have to pay an additional charge towards the construction costs of the project?

A: For us to extend natural gas to rural areas where the cost of building the infrastructure is more than the revenue it generates, the Ontario Energy Board approved an additional expansion surcharge. This is a variable rate charge, based on your usage, of \$0.23/cubic metre of natural gas used. Since homes use more natural gas in colder months, the surcharge will be higher in winter. It will appear as a separate line item on your monthly bill for up to 40 years.

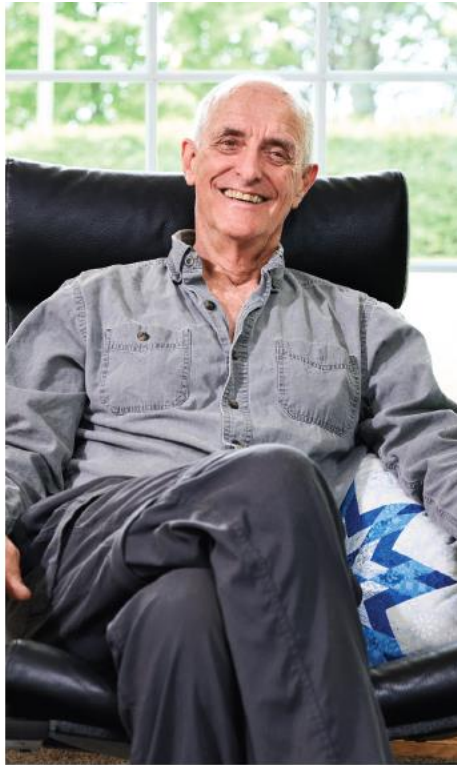
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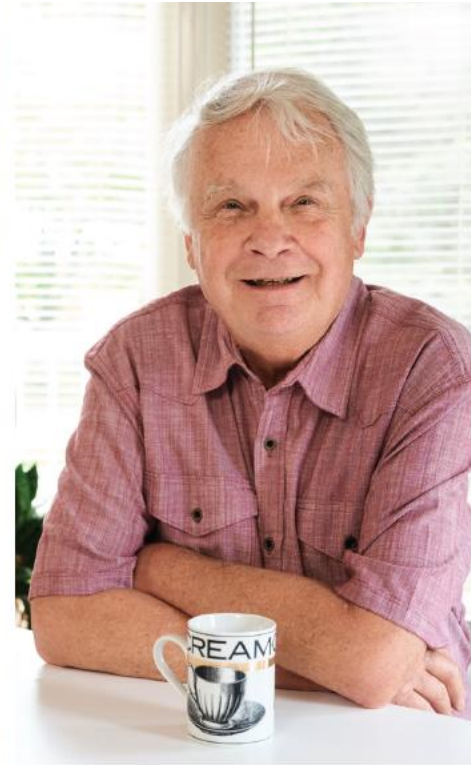
“We’ve saved all kinds of money by converting to natural gas, especially over the cost of hydro these days. It just made sense.”

– **Phil Dewsnap,
Homeowner,
Fenelon Falls**



“I live in a rural region. That means I have my own septic, my own water, and if things don’t work, I’m in real trouble. Natural gas has helped me be more independent and I saved a really good buck.”

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“The advice I would give others is to convert to natural gas. We’ve seen a lot of energy savings, the conversion was simple and you get some extra money in your pocket, so it’s worth doing.”

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Digital/Social Media Ads
December 2022 – January 2023

 **Enbridge Gas**
Sponsored

Tired of high energy costs? Choose natural gas for lower energy bills and cleaner heating than propane, oil or wood. [116]



Save with natural gas

ENBRIDGEGAS.COM

Switching can save you up to 55% [32] [Learn More](#)

Let us know you're interested [29]

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Sponsored

Bobcaygeon—get ready to save up to 55 percent on energy bills when you switch to reliable, convenient natural gas. [114]



Bobcaygeon

Natural gas is coming soon

ENBRIDGEGAS.COM

Let us know you're interested [29] [Learn more](#)

Cut costs and carbon [20]



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Sponsored

Bobcaygeon—enjoy home comfort for less. Get lower energy bills and more peace of mind when you switch to natural gas. [117]



Save with natural gas

Inflation hitting your budget? [30]

Now you can hit back [20]

[Learn More](#)

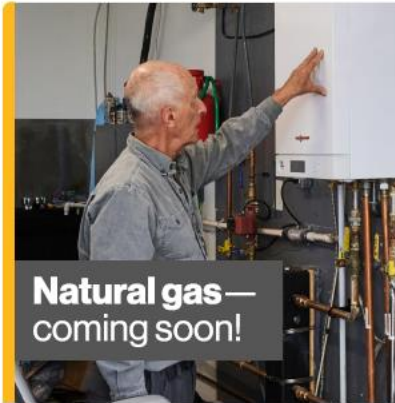


A natural choice

Switch to natural gas and save up to 55% [40]

Cut costs and carbon [20]

[Learn More](#)



Natural gas—coming soon!

Coming soon to Bobcaygeon! [26]

Let us know you're interested [29]

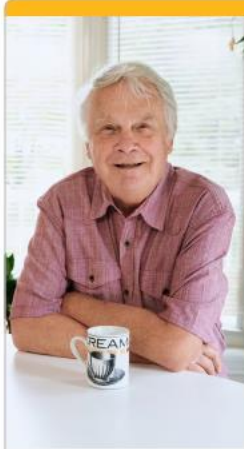
[Learn More](#)



Enbridge Gas

Sponsored

Have you heard? Natural gas is coming to Bobcaygeon! Find out why Ontarians choose Enbridge Gas. [96]



Save up
to 55% on
energy

**Cheaper than propane,
oil or wood [33]**

Let us know you're interested [29]

[Learn more](#)



A choice
you can
feel good
about

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[Learn more](#)



Switch.
Save.
Smile.

**Worry-free comfort and
convenience [34]**

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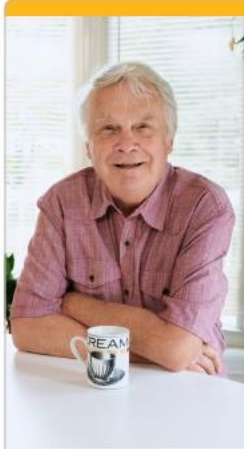
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Switch. Save. Smile.


Worry-free comfort and convenience [34]

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[Learn more](#)

 **Enbridge Gas**
Sponsored

See why Bobcaygeon welcomes natural gas. It's more affordable, reliable and cleaner than propane, oil or wood. [110]



John Powell
Scugog

ENBRIDGEGAS.COM

Hear from others who've made the switch [40] [Learn more](#)

Let us know you're interested [29]

 **Enbridge Gas**
Sponsored

Still heating with oil or propane? Switch to natural gas and save up to 55% on your energy costs. [97]



Phil Dewsnap
Fenelon Falls

ENBRIDGEGAS.COM

Hear why your neighbours made the switch [40] [Learn more](#)

Let us know you're interested [29]

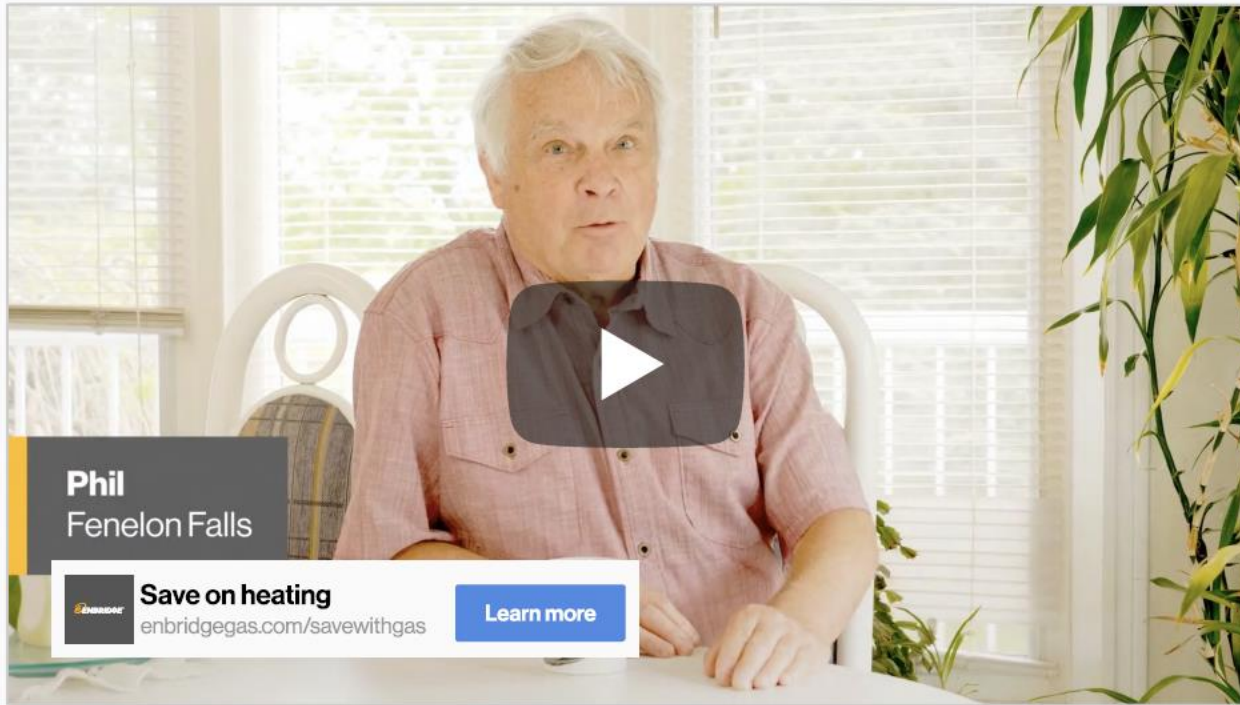
Short headline text – 5 variants (40 characters max)	Long headline text (90 characters max)	Description (90 characters max)
Save big with natural gas (25)	See why Ontarians welcome natural gas. It's affordable, reliable and cleaner. (77)	Save on energy bills with a cleaner and more convenient choice than oil, propane or wood. (86)
Affordable energy can be yours (30)	Switch to natural gas to save up to 55 percent on energy bills and cut emissions too! (85)	Visit enbridgegas.com/savewithgas to let us know you're interested. (67)
Why choose natural gas? (23)	See why natural gas is Ontario's preferred choice and good news for Bobcaygeon. (79)	Enjoy peace of mind and savings up to 55 percent when you switch—it's easy! (75)
Tired of high energy costs? (28)	Home comfort doesn't need to be costly anymore—reliable natural gas is on the way! (84)	Never run out of fuel or have to wait for deliveries again. (58)
Save on energy and emissions (28)	Good news for Bobcaygeon—affordable, reliable, cleaner energy is coming soon! (77)	Reduce your energy bills by up to 55% with a cleaner choice than oil, propane or wood. (86)



Long Headline Text:

Bobcaygeon: Are you paying too much for home heating? (53/90)

Description Text: Let us know you're interested in switching to affordable natural gas (68/70)



Long Headline Text:

Bobcaygeon: You can switch to natural gas and save up to 55 percent each year! (78/90)

Description Text: Let us know you're interested in affordable, reliable natural gas. (66/70)

Kiosk Flyer

January 2023

Are you paying too much for home heating?

Come visit us to see how
much you can save!

Saturday, Jan. 21
9:30 a.m. – 6:00 p.m.

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natural gas and how to get connected.**

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96 King St E, Bobcaygeon

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to natural gas.

Talk about potential savings
on your home energy bills.

Connect with us at: ceapplications@enbridge.com



Community Expansion Construction Trailer Wrap

March 2023 – Present

Bobcaygeon Community Expansion Project



In partnership with NPLC

For more information: ceapplications@enbridge.com



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FILE NAME: ENB1275-CE-BobcaygeonKiosk-KawarthaThisWeek-10_375x10_5_CR02					✕
JOB NO. / CLIENT / PROGRAM		DATE	PUBLICATION (VENDOR) / INSERT DATE		
ENB 1275 / ENB /		November 21, 2022	Kawartha This Week		
COLOUR	TRIM	SAFETY	MARGIN	BLEED	FOLD
CMYK	10.375x10.5	-	9.625 x 9.75	No bleed	N/A
SCALE: 1:1	P.M.: MA	DESIGNER: CR	PRODUCTION: CR		

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—
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Ahmed Al-Amry

Ahmed Al-Amry
Supervisor, Community Expansion
Enbridge Gas



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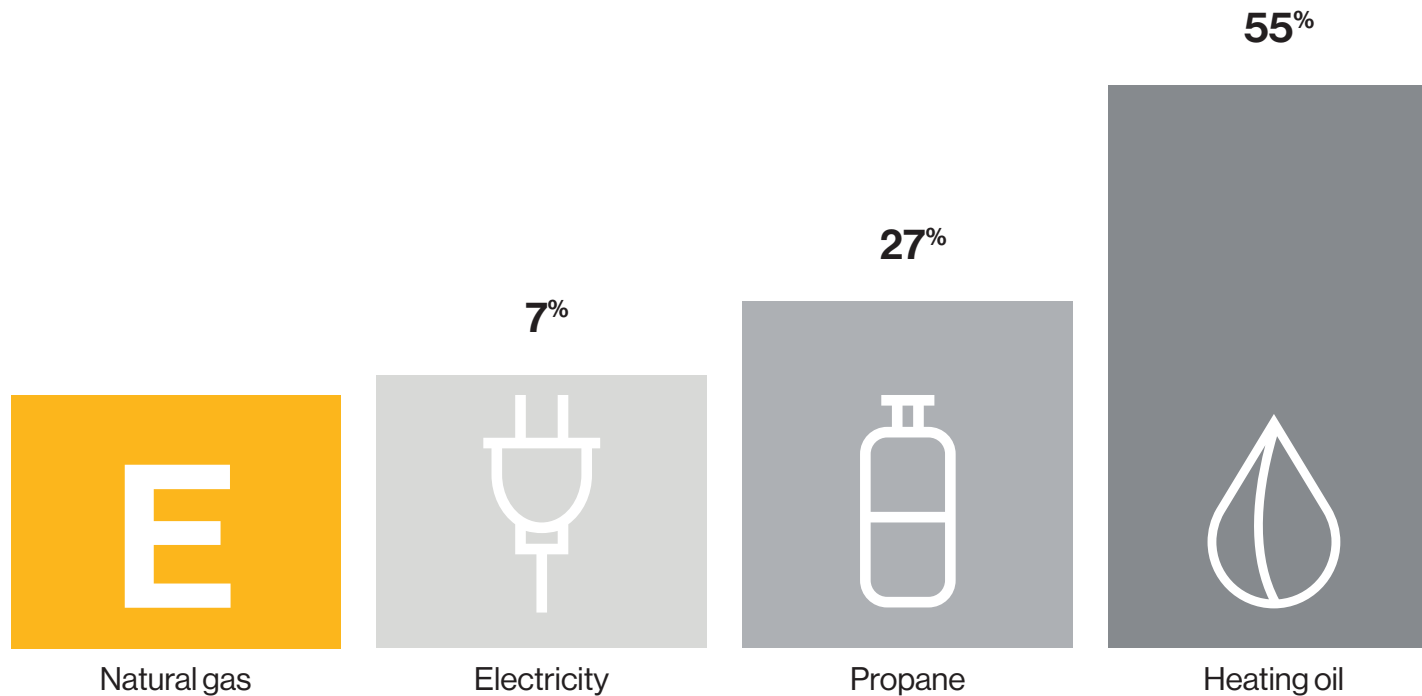
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How much can you save each year?

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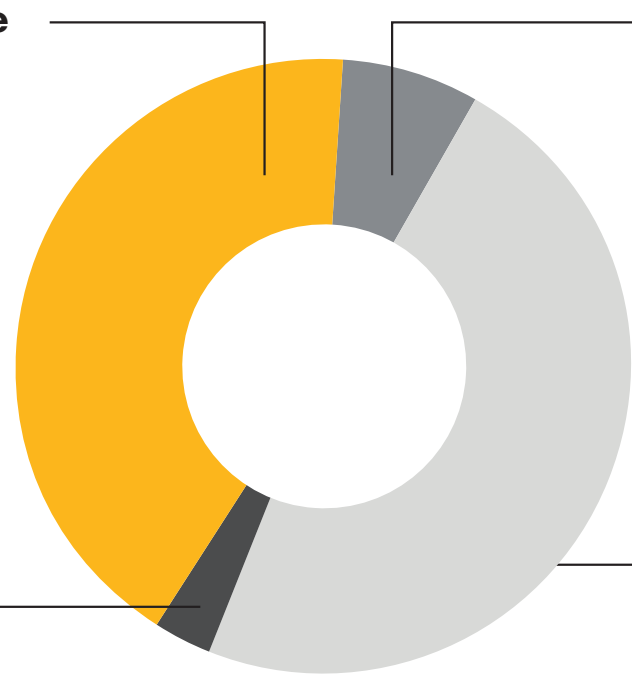
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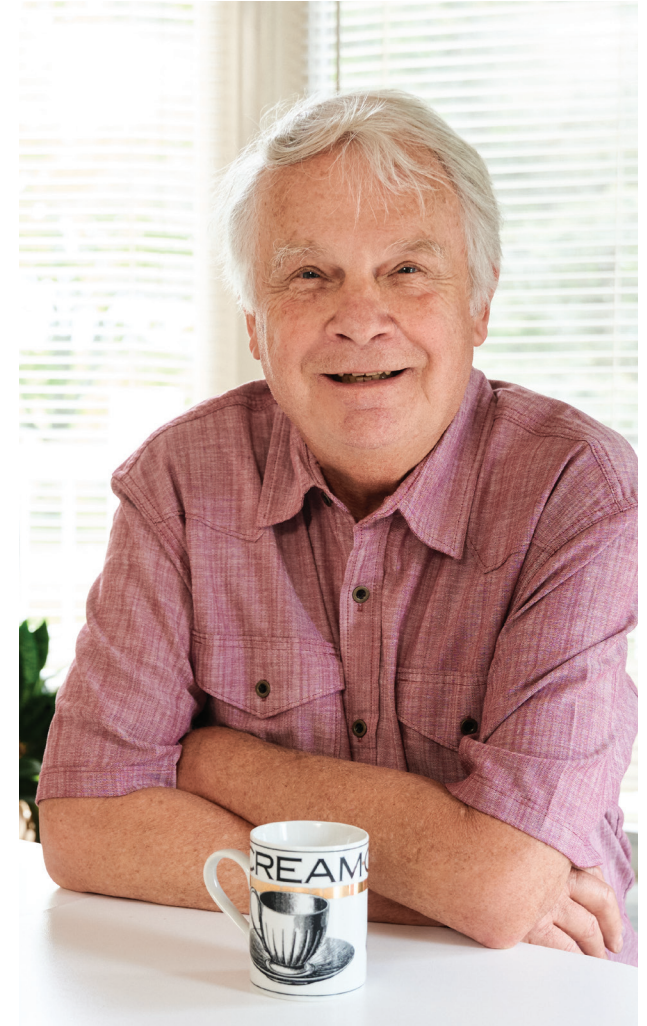
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Homeowner,
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ENBRIDGE GAS

CE Bobcaygeon

November 29, 2022



C O N T E X T

CE BOBCAYGEON

Concept 1: From pains to gains

We know that customers often make buying decisions based on emotions. In this concept, we focus on negative emotions (pain points) to hook interest initially, supported by the benefits of switching to natural gas.



C O N T E X T

Concept 1a — Social (Static)



Enbridge Gas

Sponsored

Tired of high energy costs? Choose natural gas for lower energy bills and cleaner heating than propane, oil or wood. [116]



ENBRIDGEGAS.COM

Switching can save you up to 55% [32]

Let us know you're interested [29]

[Learn More](#)



Concept 1a — Social (Carousel)



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Inflation hitting your budget? [30]

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A natural choice

gettyimages
PM Images

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Natural gas — coming soon!


Coming soon to Bobcaygeon! [26]

Let us know you're interested [29]


[Learn More](#)



Social—Video

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Sponsored

See why Bobcaygeon welcomes natural gas. It's more affordable, reliable and cleaner than propane, oil or wood. [110]



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Scugog

ENBRIDGEGAS.COM

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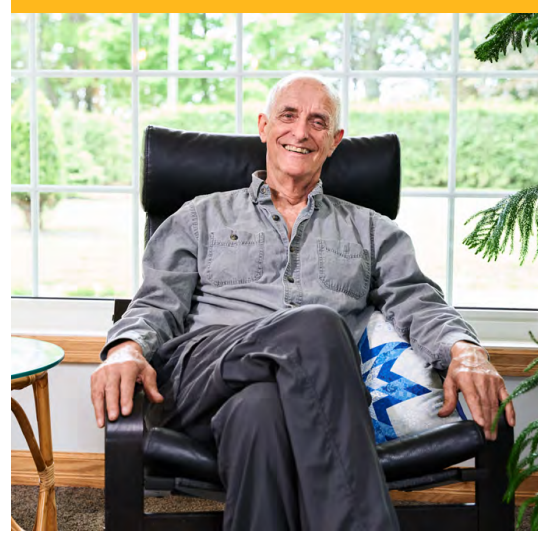
Concept 1 — Google Discovery Image Options

Option 1

Option 2

Option 3

Option 4



Google Discovery Copy

Short headline text – 5 variants (40 characters max)	Long headline text (90 characters max)	Description (90 characters max)	CTA:	Business name:	Destination URL:
Save big with natural gas (25)	See why Ontarians welcome natural gas. It's affordable, reliable and cleaner. (77)	Save on energy bills with a cleaner and more convenient choice than oil, propane or wood. (86)	Learn more	Enbridge Gas	enbridgegas.com/savewithgas
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CE BOBCAYGEON

Concept 2: Welcome home neighbour

With a focus on optimism, warm welcomes and community connections this concept creates positive emotions. Cost savings and convenience close the deal.



C O N T E X T

Concept 2 — Social (Static)



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Sponsored

Bobcaygeon—get ready to save up to 55 percent on energy bills when you switch to reliable, convenient natural gas. [114]



Bobcaygeon
Natural gas is coming soon

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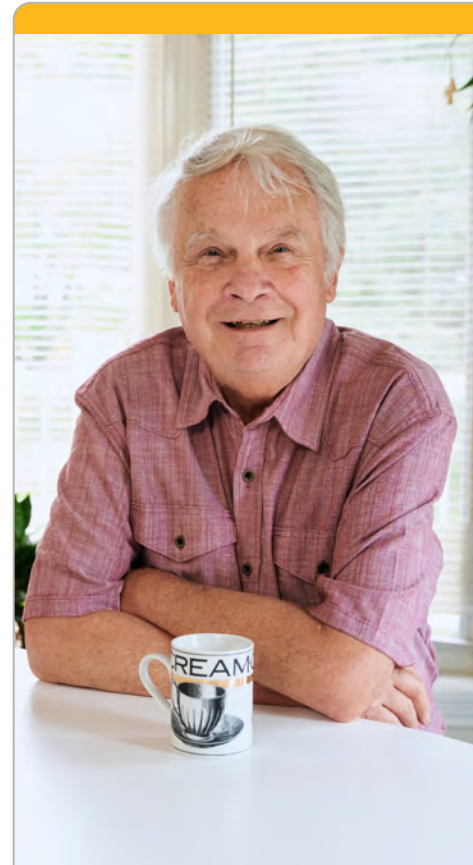
Concept 2 — Social (Carousel)



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Social (Video)

 **Enbridge Gas**
Sponsored

Still heating with oil or propane? Switch to natural gas and save up to 55% on your energy costs. [97]



Phil Dewsnap
Fenelon Falls

ENBRIDGEGAS.COM

Hear why your neighbours made the switch [40] [Learn more](#)

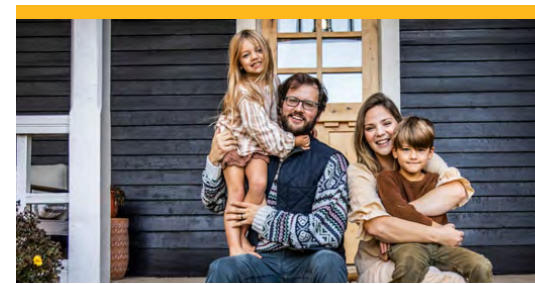
Let us know you're interested [29]



Concept 2 — Google Discovery Image Options

Option 1

Option 2



CE BOBCAYGEON

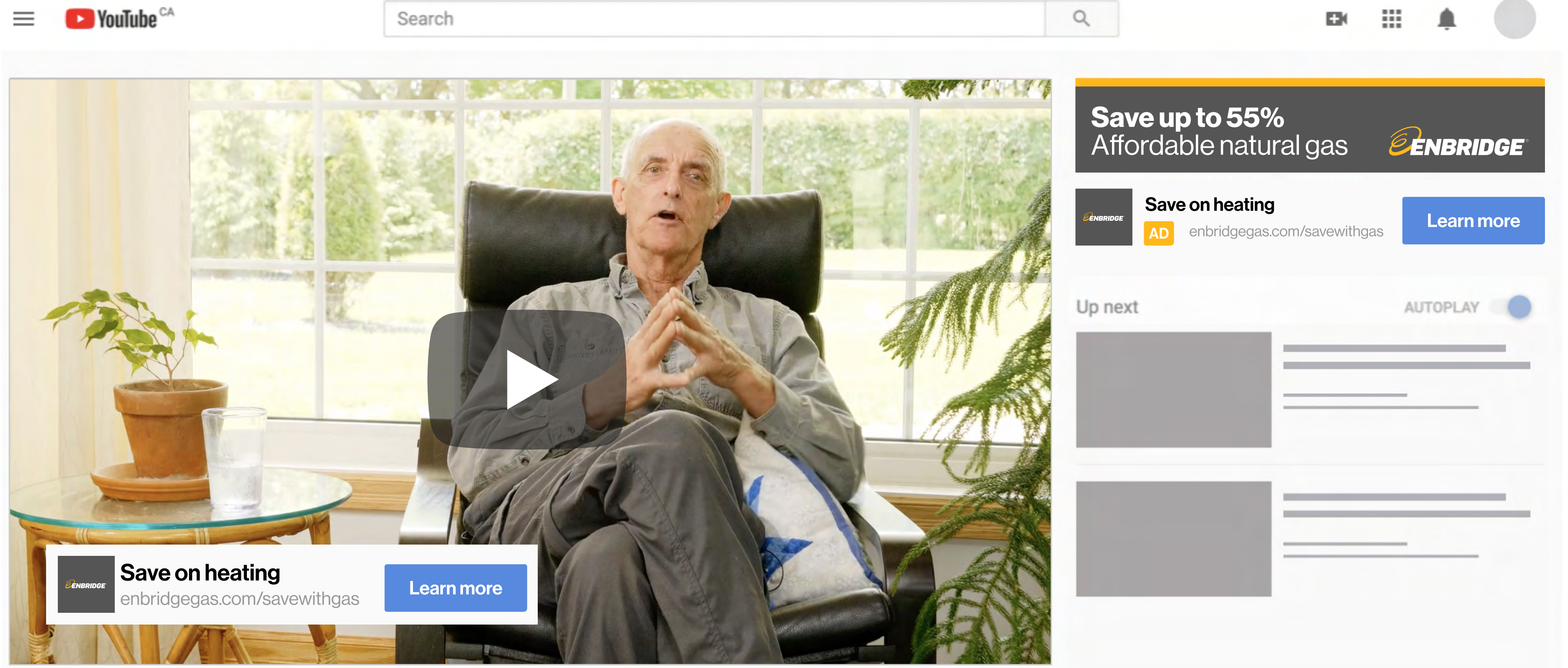
YouTube Companion Ads - Concept 1



C O N T E X T

YouTube Companion Ads (300 X 60)

Option 1A



Long Headline Text:

Bobcaygeon: Are you paying too much for home heating? (53/90)

Description Text: Let us know you're interested in switching to affordable natural gas (68/70)

Call-to-Action Text: Learn more (10/10)

Headline Text: Save on heating (15/15)

Display URL: enbridgegas.com/savewithgas



CE BOBCAYGEON

YouTUBE Companion Ads - Concept 2



C O N T E X T

YouTube Video Action Ads + Companion Ads

The screenshot shows a YouTube video player interface. At the top left is the YouTube logo with a 'CA' superscript. A search bar is located at the top center. On the right side of the top bar are icons for video, grid, notifications, and a profile picture. The video content shows an older man with white hair, Phil Fenelon Falls, sitting at a table in a well-lit room with blinds and a plant. A large play button is overlaid on the video. In the bottom left corner of the video, there is a text overlay: 'Phil Fenelon Falls' and 'Save on heating' with the Enbridge logo, the URL 'enbridgegas.com/savewithgas', and a blue 'Learn more' button. To the right of the video player, there is a companion ad with a dark background and white text: 'How much could you save? Switch to natural gas' with the Enbridge logo. Below this is another ad with a white background and black text: 'Save on heating' with the Enbridge logo, an 'AD' icon, the URL 'enbridgegas.com/savewithgas', and a blue 'Learn more' button. Below the companion ads is an 'Up next' section with an 'AUTOPLAY' toggle and two video thumbnails with placeholder text.

Long Headline Text:

Bobcaygeon: You can switch to natural gas and save up to 55 percent each year! (78/90)

Description Text: Let us know you're interested in affordable, reliable natural gas. (66/70)

Call-to-Action Text: Learn more (10/10)

Headline Text: Save on heating (15/15)

Display URL: enbridgegas.com/savewithgas



CE BOBCAYGEON

YouTube Companion Ads - Concept 3



C O N T E X T

YouTube Video Action Ads + Companion Ads

The image shows a YouTube video player interface. At the top, there is a search bar with the text "Search" and a magnifying glass icon. To the right of the search bar are icons for a camera, a grid, a bell, and a profile picture. The video player itself shows a video with a large play button overlay. The text on the play button says "We're happy to bring natural gas to communities". In the background of the video, there is a water tower with the text "MISSISSAUGAS OF SCUGOG ISLAND FIRST NATION". The Enbridge logo is visible in the bottom right corner of the video frame. To the right of the video player is a companion ad. The ad has a dark background and white text that says "How much could you save? Switch to natural gas" followed by the Enbridge logo. Below this is another ad with a white background and black text that says "Save on heating" followed by the Enbridge logo, a yellow "AD" icon, the URL "enbridgegas.com/savewithgas", and a blue "Learn more" button. Below the companion ads is an "Up next" section with an "AUTOPLAY" toggle switch and two video thumbnails with placeholder text.

Long Headline Text:
Natural gas is reliable, convenient and much more affordable than other energy options. (87/90)

Description Text:
Bobcaygeon: Let us know you're interested. (42/70)

Call-to-Action Text: Learn more (10/10)
Headline Text: Save on heating (15/15)

Display URL: enbridgegas.com/savewithgas



Ready to cut your energy bills in half?

Bobcaygeon Community Expansion Information Session

Thursday, Dec. 1
5 p.m. – 8 p.m.

Learn about the benefits of switching to natural gas and how to get connected.

Stop by our Information Session at:
Royal Canadian Legion Branch 239
96 King St E, Bobcaygeon

Representatives will be available to answer all your questions:

Drop by to have all **your questions answered** and let us know if you're interested in connecting to natural gas.

Talk about potential savings on your home energy bills.

Connect with us at: **ceapplications@enbridge.com**

Bobcaygeon Community Expansion Project



In partnership with NPLC

For more information: ceapplications@enbridge.com



Facebook Ad for Sandford Community Expansion Project Active from March 20 – April 2, 2023



 **Enbridge Gas**
Sponsored · 

Join us from March 20 - April 2, 2023, for our virtual information session where you can learn more about the Sandford Community Expansion project. You will be able to provide feedback and comments on the project, supporting the overall design and execution.

Sandford Community Expansion Project
Virtual information session
March 20 – April 2, 2023

enbridgegas.com
Virtual Info Session
Welcome to Enbridge Ga... [Learn more](#)

Choose to pay less for energy

—
Save up to 65% each year
by switching to natural gas



Ready to cut energy bills in half?

Good news— natural gas is a convenient solution to help you save. This package will guide you through everything you need to know and the benefits of affordable, reliable natural gas.

Save up to 65 percent* each year

Compared to alternative heating sources like electric baseboard, propane or oil, switching to natural gas could save you on home and water heating costs year round.

Lower carbon emissions

Natural gas is cleaner than other fuels, such as propane and oil, and can help reduce your home's carbon footprint.

See how much you can save

Calculate your savings by visiting enbridgegas.com/savewithgas and finding your community page to use the calculator.

Ahmed Al-Amry

Ahmed Al-Amry
Supervisor, Community Expansion
Enbridge Gas

Get in touch any time

There are many alternatives to serve your energy needs. To learn more about alternative technologies, such as heat pumps, visit Natural Resources Canada at <https://tinyurl.com/y3k2nh8b>. If you have questions, please contact one of our Community Expansion Advisors.

Community Expansion Contacts:

Phone: 1-833-356-2689
Email: ceapplications@enbridge.com



* Natural gas prices are based on Rate 1 rates in effect as of April 1, 2023 and include the \$0.23 per m3 expansion surcharge. Electricity rates based on Hydro One Distribution rates (Mid-density R1) as of Jan. 1, 2023 and Regulated Price Plan (RPP) customers that are on Time-Of-Use (TOU) pricing. They include the new Ontario Electricity Rebate (OER). Electric cold climate air source heat pumps are available but not included in the savings calculations. The propane price comparison is based on the lowest price obtained in an area survey conducted quarterly. Oil price is based on the latest available retail price. Since individual fuel prices vary, savings assumptions may or may not be as accurate in your situation. Costs have been calculated for the equivalent energy consumed and include all service, delivery and energy charges. The Federal carbon charge is included for all energy types based on the April 1, 2023 rate. The Federal carbon charge is projected to increase annually from 2024 to 2030.

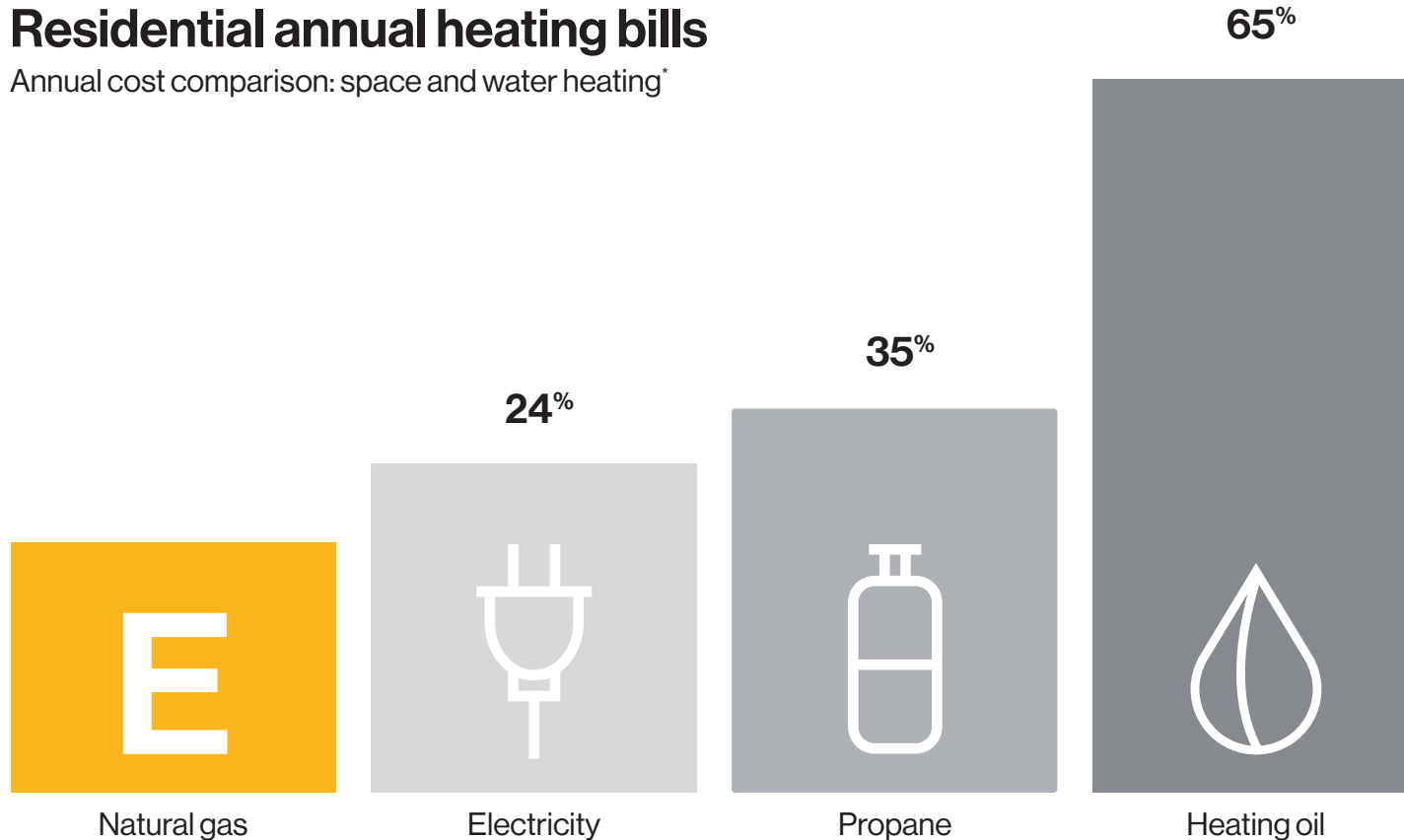
Cost and benefits

How much can you save each year?

Lower costs, lower emissions, more convenience and peace of mind.

Residential annual heating bills

Annual cost comparison: space and water heating*



* Natural gas prices are based on Rate 1 rates in effect as of April 1, 2023 and include the \$0.23 per m3 expansion surcharge. Electricity rates based on Hydro One Distribution rates (Mid-density R1) as of Jan. 1, 2023 and Regulated Price Plan (RPP) customers that are on Time-Of-Use (TOU) pricing. They include the new Ontario Electricity Rebate (OER). Electric cold climate air source heat pumps are available but not included in the savings calculations. The propane price comparison is based on the lowest price obtained in an area survey conducted quarterly. Oil price is based on the latest available retail price. Since individual fuel prices vary, savings assumptions may or may not be as accurate in your situation. Costs have been calculated for the equivalent energy consumed and include all service, delivery and energy charges. The Federal carbon charge is included for all energy types based on the April 1, 2023 rate. The Federal carbon charge is projected to increase annually from 2024 to 2030.

Bring home all the benefits



More affordable

Compared to other fuels, natural gas is the most cost-effective way to heat your home and water.



Comfort and convenience

Never worry about running out of fuel or waiting for deliveries again.



Versatile and efficient

From fireplaces to clothes dryers, natural gas can make your home more comfortable and enjoyable.



Lower carbon emissions

Natural gas can help reduce your home's carbon footprint.

Billing and charges

Where does your money go?

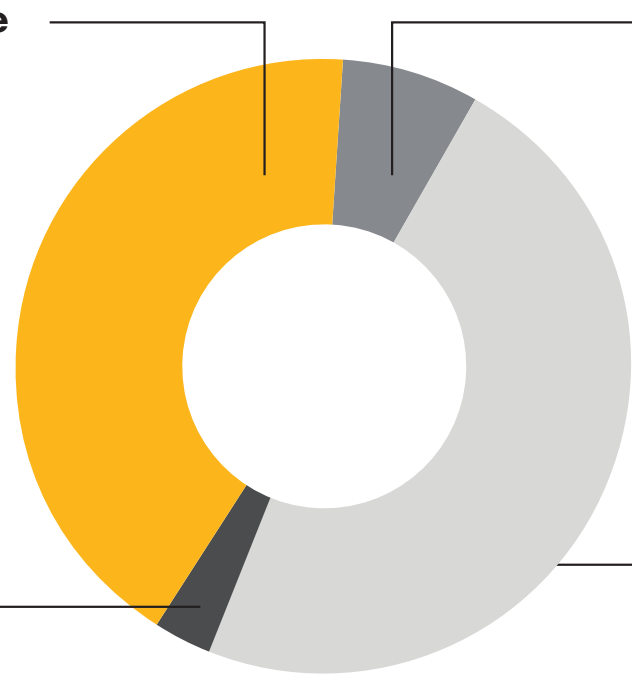
Here's a helpful explanation of a few key items on your natural gas bill

Expansion Surcharge

The fairest way to cover the infrastructure costs of expanding natural gas service.

Cost Adjustment

Natural gas rates vary by season—you pay what we pay.



Customer Charge

This is a fixed \$22.88* amount that pays for 24/7 emergency response and other services.

* Subject to change. Please note that all charges, except the fixed customer charge, vary based on how much natural gas you use.

Supply, Delivery and Transportation Charges

These cover the costs to buy and deliver natural gas to your home.

Frequently asked questions

Q: Why do I have to pay an additional charge towards the construction costs of the project?

A: For us to extend natural gas to rural areas where the cost of building the infrastructure is more than the revenue it generates, the Ontario Energy Board approved an additional expansion surcharge. This is a variable rate charge, based on your usage, of \$0.23/cubic metre of natural gas used. Since homes use more natural gas in colder months, the surcharge will be higher in winter. It will appear as a separate line item on your monthly bill for up to 40 years.

Go to enbridgegas.com/savewithgas to get an estimate of your potential fuel savings.

Q: Why is the surcharge in effect for different lengths of time by community?

A: The length of time the surcharge remains in effect varies by community because the overall cost to serve each community is different, based on factors such as the distance of the community from an existing natural gas pipeline and more.

Programs and rebates to help you save

Enbridge Gas offers a suite of conservation programs to help you save energy at home. From money-saving rebates to discounts and special offers, we're committed to helping you make your home more energy efficient, comfortable and affordable.

Energy conservation is good for you and your community

Reducing energy use is the simplest, most cost-effective way to keep energy costs affordable for everyone. When you make your home more energy efficient, you also help protect it against the effects of a changing climate and contribute to a cleaner, greener Ontario.



Visit our website at enbridgegas.com/conservation to find the right program for you.



“ I was connected with someone who came to my house and walked through the house with me looking for areas that I could improve on by myself or with professional help. Because of the efforts I've made, it's a lot more comfortable and a lot less cold. ”

– Erica H.
Program participant
Ottawa, Ontario

Community Engagement Strategies for Community Expansion Projects

Phase	Timelines (Marketing and Market Insights Timelines)	Strategy	Tier 3 Mktg Activities 50 - 150 customers	Tier 2 Mktg Activities 150 - 500 customer	Tier 1 Mktg Activities 500 + customers	Community Engagement Activities Across all tiers
			Activity (in order of priority)	Activity (in order of priority)	Activity (in order of priority)	
Phase 1 - Market Insights	2-3 weeks survey prep (hire vendor/supply chain process, update and program questionnaire, arrange for fielding) 4+ weeks fielding 2 weeks data compilation, analysis and high level reporting	* Survey typically used to forecast customer attachments, therefore survey required before project economics can be finalized * Survey to gather information that supports future marketing efforts, such as demographics, existing fuel and equipment types, housing characteristics, perceptions of natural gas, etc. * Methodology determined based on community characteristics: door-to-door, online, telephone, or a combination.	* Survey	* Survey	* Survey	1. Municipality are notified of the survey for awareness 2. Municipality to notify residents through available channels (eg social media, newsletter, etc.)
Phase 2 - Pre-Construction This includes activities such as * Identify stakeholders * Attachment forecasts * Route selection * Environmental and Archeology work * Development of drawings * Load estimates for customers	Up to 6 months (Tier 1) Up to 3 months (Tier 2) Up to 2 months (Tier 3)	Build awareness about natural gas and uses of natural gas, informing that natural gas is coming to the community and to address any questions as needed.	* Community open house * Construction vehicle decals (3rd party vehicles)	* Community open house* * Foundational creative assets - print/digital * Construction vehicle decals (3rd party vehicles)	* Community open house * Foundational creative assets - print/digital * Construction vehicle decals (3rd party vehicles)	* Develop or strengthen relationships with key stakeholders * Media scans * Prepare key messaging to respond to inquiries * Support project team
Phase 3 - Active Construction	Up to 18 months (Tier 1) Up to 12 months (Tier 2) Up to 8 months (Tier 3)	1. Drive awareness and education on natural gas and the attachment process, address customer questions/concerns. 2. Drive adoption/attachments	* Open House * Creative Assets - print, digital, grass roots , newspapers * Construction packages (attachment team) * Vehicle decals * CE Tool kit leave behind	* Open House * Creative Assets - print, digital, social, grass roots/community events * Construction packages * Community events	* Open House * Storefront location * Creative Assets - print, digital, social, grass roots/community events, radio, newspapers * Construction packages	* Notice of construction * Internal and external stakeholder communications and events * Support to project team

ENBRIDGE GAS INC.

Answer to Interrogatory from
Individual Participant

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, Page 2 of 7:

“Delivering the Energy that Customers Want and Need 6. The Township of Uxbridge has emphasized its support for the Project on multiple occasions via a council resolution dated June 30, 2020, which is included at Attachment 2 to this Exhibit.”

Question(s):

Please could you provide a copy of the proposed project facilities map and related correspondence (e.g. emails or presentations) provided to Councillors at the time of their support in 2020? If the proposed project facilities map in the application differs from the map provided to Councillor, please explain the differences.

Response:

Please see Attachment 1 to Exhibit I.ED-2 for correspondence between Enbridge Gas and Councillors.

Please see Attachment 1 to this response for the map that was provided to Councillors at the time of their support in 2020. The map provided at Attachment 1 shows a preliminary concept of the project area and was submitted as part of Enbridge Gas's NGEF Application in the EB-2019-0255 proceeding. The proposed project facilities map in the application differs from the map provided to Councillors as it is a detailed facilities map which was produced as the project advanced in maturity. There are no actual differences in Project scope between the proposed project facilities map in the application and the map that was provided to Councillors.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Individual Participant

Interrogatory

Question(s):

Does Enbridge have a copy of a more recent council resolution supporting the project as filed in the application? If so, please provide a copy

Response:

Enbridge Gas has not obtained more recent council resolution than the one provided in 2020; however, Enbridge Gas received a related council resolution from the Township of Uxbridge in October 2023 that supports the modernization of the Ontario Energy Board's Leave-to-Construct process, which included support for the Natural Gas Expansion Program for Sandford.

Please see Attachment 1 to this response for a copy of the noted resolution.



In The Regional Municipality of Durham

The Corporation of the
**Township
of
Uxbridge**

Town Hall
51 Toronto Street South
P.O. Box 190
Uxbridge, ON L9P 1T1
Telephone (905) 852-9181
Facsimile (905) 852-9674
Web www.uxbridge.ca

SENT VIA E-MAIL

October 3, 2023

Donna Popovic
Public Affairs & Communications
Enbridge Gas Inc.
Toronto, Ontario
donna.popovic@enbridge.com

**RE: ENBRIDGE GAS – PHASE TWO OF THE NATURAL GAS EXPANSION
SUPPORT PROGRAM - SANDFORD
TOWNSHIP FILE: A-00 G**

Please be advised that during the regular meeting of Council of September 25, 2023, the following motion was carried:

WHEREAS a community development project by Enbridge Gas is in progress under Phase Two of the Natural Gas Expansion Support Program in the Hamlet of Sandford;

AND WHEREAS the Enbridge Gas has shared with the Township key messages regarding the Ontario Energy Board's Leave to Construct (LTC) process, entitled "reducing red tape for more cost-effective, timely energy connections in Ontario;"

AND WHEREAS the Township supports and wishes to endorse the recommendations put forward by Enbridge Gas in order to expedite the installation of gas to small communities such as Uxbridge.

NOW THEREBE IT RESOLVED:

1. THAT the Township of Uxbridge petition the Ontario Government to expedite the implementation of the following recommendations:
 1. i) THAT the Government of Ontario move to modernize the Ontario Energy Board's (OEB) Leave to Construct (LTC) process for smaller pipeline

projects in order to bring reliable, affordable energy options to communities, homes and businesses in a more cost-effective and timely manner;

2. ii) AND THAT the LTC cost threshold be updated from \$2M to \$10M for hydrocarbon lines (by amending Ontario Regulation O.Reg.328/03) while maintaining current requirements and expectations for Indigenous consultation and environmental review for projects greater than \$2M and less than \$10M;

iii) AND THAT these outdated regulations are causing the LTC to apply far more broadly than intended when it was established over 20 years ago due to increased regulatory and cost pressures, as well as inflation, virtually all gas pipeline projects are now greater than \$2M rendering the threshold meaningless;
1. iv) AND THAT roughly 0.5 KM pipe in urban settings now often exceeds the \$2M threshold;
2. v) AND THAT modernizing these outdated regulations would reduce delays and costs for economic development initiatives including transit projects, community expansion projects, housing developments, connections for low carbon fuel blending (e.g., renewable natural gas, hydrogen) as well as residential and business customer connections;
3. vi) AND THAT based on OEB's performance standards, this proposal would save approx. 5-7 months of regulatory process which is in addition to the time needed to undertake Indigenous consultation and environmental review and prepare an application to the OEB;

vii) AND THAT the cost of preparing and having a LTC application heard ranges from approx. ~\$50,000 to ~\$200,000, which is passed on to customers;

viii) AND THAT while no cost-based threshold exists for electricity lines, there are a range of exemptions ensuring that LTC is only required for significant electricity projects and the proposed changes would help ensure that, consistent with electricity projects, LTC for hydrocarbon lines would only be required for significant projects;

1. ix) AND THAT increasing the cost threshold to \$10M would closer align Ontario with other Canadian jurisdictions (e.g., in B.C., these thresholds are \$15M for electricity and \$20M for natural gas);
2. AND THAT this resolution be circulated to AMO, Premier Doug Ford, the Minister of Energy, Todd Smith, The Minister of Finance, Peter Bethlenfalvy and all Durham Region Municipalities requesting support of the proposed changes regarding reducing red tape for more cost-effective, timely energy connections in Ontario.

I trust you will find the above to be satisfactory.

Yours truly,



Debbie Leroux
Director of Legislative Services/Clerk

/ljr

cc: Premier Doug Ford
Honourable Todd Smith, Minister of Energy
Honourable Peter Bethlenfalvy, Minister of Finance
AMO
All Durham Municipalities

ENBRIDGE GAS INC.

Answer to Interrogatory from
Individual Participant

Interrogatory

Question(s):

Please could you explain what is required in order to also bring service to the farms at the end of each spur of the Project? Please also include information on discussions with those farms and any economic analysis that Enbridge has performed to assess serving those additional customers.

Response:

To service the farms past our endpoints, the property owners would need to show interest in natural gas by submitting an inquiry or gas application through Enbridge Gas's online system which would be reviewed by Enbridge Gas's local regional office. Any main extension off an expansion project inherits, at a minimum, the remaining term of the System Expansion Surcharge (SES) for the expansion project it is connecting to. If there is an economic shortfall, after applying the remaining term (less than 40 years), the main extension SES term may be increased to a maximum of 40 years to offset the economic shortfall. If the economics still fall short, the customer(s) would be required to pay the full contribution in aid of construction (CIAC) amount in lieu of the SES for the entire project cost.

There has not been any engagement with the farms at the end of each spur of the Project as they are considered outside the scope of the Project.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Individual Participant

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, Page 6 of 7: "Current Municipal Property Assessment Corporation ("MPAC") data"

Question(s):

Please could you explain how the MPAC data is used to forecast growth?

Response:

Municipal Property Assessment Corporation (MPAC) data was used to establish the basis for the forecast and to designate property types such as commercial or industrial. Field visits were subsequently conducted to confirm addresses within the proposed Project scope and verify desktop category assumptions where applicable.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Individual Participant

Interrogatory

Reference:

Exhibit F, Tab 1, Schedule 1, Attachment 2, Page 7 of 12 OPCC Environmental Consultation Log.

Question(s):

Was Ward 4 Councillor, Deputy Mayor Willie Popp missed in the communication? Please provide a full copy of communications (email, presentations, etc.) to councillors to understand which were included and what information they were provided throughout the process.

Response:

Ward 4 Councillor Deputy Mayor Willie Popp was missed on the circulation of the Environmental Report, which occurred on June 1, 2023. The Township of Uxbridge Mayor and Ward 1-3 and 5 Councillors were included in the circulation of the Environmental Report on June 1, 2023. No responses were received by these contacts.

In addition to the Environmental Report, the Township of Uxbridge Mayor and Ward 1-3 and 5 Councillors were issued a Notice of Study Commencement on March 13, 2023. The Notice included a project overview and details of the Virtual Information Session. A response was requested by April 19, 2023; no responses were received from these contacts. The Notice can be found at Appendix F3 of the Environmental Report and the Record of Consultation and Engagement can be found at Appendix H of the Environmental Report.

Please see also see Attachment 1 to Exhibit I.ED-2 for communications with municipal officials within the Township of Uxbridge.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Individual Participant

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, Page 3 of 7
"Figure 1 shows this price advantage"

Question(s):

Please could you provide the background assumptions and calculations for the Figure 1 chart? Excel would be ideal if it exists.

Response:

Please see the response at Exhibit I.ED-1 part c) - d) for the background assumptions and calculations used to calculate Figure 1.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Individual Participant

Interrogatory

Question(s):

Please can you whether the Customer Charge is included in Figure 1 costs.

Response:

The customer charge is included in the natural gas cost only.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Individual Participant

Interrogatory

Reference:

Exhibit E, Tab 1 Schedule 1, Page 4 of 5

“At the next rebasing application after the ten-year RSP expires, Enbridge Gas will use actual revenues and actual capital costs of the Project to determine any revenue sufficiency or deficiency for rate-setting purposes.

Question(s):

Please can you advise what a project cost increase or a revenue shortfall would mean to the rates of a Sandford customer in the period after the RSP expires?

Response:

Enbridge Gas will file the actual costs and revenues of the Project with the OEB for consideration of inclusion in distribution rates in the rebasing application following the conclusion of the RSP. After the RSP, a Sandford customer will pay normal distribution rates plus a system expansion surcharge for the period proposed in this application.

Enbridge Gas is unable to predict what the actual impact on the customer's rates will be due to the number of variables that could evolve during the ten-year RSP.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Individual Participant

Interrogatory

Reference:

Exhibit D, Tab 1, Schedule 1 Page 2 of 7:

“Pipe may be installed using either the trench method or the trenchless method or a combination of both”

Question(s):

Some of the Project route overlaps with the planned fiber installation in Sandford. Please will you advise whether your Project Manager would have permission to coordinate with the Fiber project so that Sandford residents would be inconvenienced only once?

Response:

The Sandford Project Team at Enbridge Gas has already been working with the Township of Uxbridge to coordinate and align future planned work within the community. Meetings have been conducted to discuss future work, along with accommodation or adjustments to the running line to avoid impeding future work that is planned and to minimize the impact of construction on the residents.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

Enbridge Gas also hereby also applies to the OEB for an Order pursuant to Section 8 of the Municipal Franchises Act cancelling and superseding the existing Certificates of Public Convenience and Necessity held by Enbridge Gas Inc. for the former Town of Uxbridge, the former Township of Uxbridge and the former Township of Scott and replacing them with a single Certificate of Public Convenience and Necessity to construct works to supply natural gas in the Township of Uxbridge. [A/2/1]

Question(s):

- a) Please explain why it is necessary to cancel and replace the existing Certificates of Public Convenience and Necessity held by Enbridge?
- b) Please explain the differences in terms between the new version and the existing version of the Certificates of Public Convenience and Necessity.
- c) Please explain the impact if the existing documents were left in place and Leave to Construct is granted for the Project.
- d) Please explain why the Franchise Agreement was updated previous, while the Certificates of Public Convenience and Necessity was not (i.e. was there a reason why these were not done simultaneously).

Response:

- a) In 1974, with the creation of the Regional Municipality of Durham, the former Town of Uxbridge, the former Township of Uxbridge and the former Township of Scott were amalgamated into the current Township of Uxbridge.

The OEB's Natural Gas Facilities Handbook (issued March 31, 2022) states the following:

3.6.2 Municipal Changes that do not affect another Person's Certificate Rights

If the boundaries of a person's existing certificate are affected by a municipal amalgamation or annexation, and no other person holds a certificate for any part of the newly amalgamated or annexed municipal territories, then the person should notify the OEB within 90 days of the date that the change takes effect to have the certificate amended to reflect the change. The OEB will not as a matter of course amend the territory covered by the person's existing certificate to include any additional service area that was added to the municipality through the amalgamation or annexation. The certificate would be amended to include the metes and bounds of the person's existing certificate. However, the certificate holder could also apply for a new certificate that would include any additional service area within the newly amalgamated territories.

With the 1974 amalgamation, the municipalities for which the existing Certificates of Public Convenience and Necessity apply no longer exist.

- b) The existing Certificates of Public Convenience and Necessity issued by the Ontario Fuel Board to the Consumers' Gas Company in 1957 and 1958 make reference to sections of the outdated 1950 version of the *Municipal Franchises Act*, but they make similar references to the approval to construct works to supply natural gas within the municipality. The new version of the Certificate of Public Convenience and Necessity now refers to applying to the municipality "as it is constituted" on the date of the Decision and Order approving the Certificate.
- c) The existing Certificates of Public Convenience and Necessity are no longer valid in that they refer to municipalities that no longer exist and make references to sections of outdated legislation that no longer exist. Keeping the existing Certificates in place would also be contrary to the intent of the OEB's Natural Gas Facilities Handbook which outlines key principles and expectations generally applicable to franchise agreement and Certificate applications.
- d) When Enbridge Gas applied on March 15, 2019 for approval of a new franchise agreement with the Township of Uxbridge (EB-2019-0110), the OEB's Natural Gas Facilities Handbook had not yet been developed so it was assumed that existing Certificates would be sufficient until more formal direction was provided on the OEB's position regarding its expectations on Certificates. All three of the existing Certificates were provided within the franchise agreement application to the OEB as was an explanation of the 1974 amalgamation. While the OEB acknowledged the existing Certificates and their age, there was no direction provided by the OEB regarding Certificates when the Decision and Order was issued on April 25, 2019 approving the proposed franchise agreement. It was not until the OEB's Natural Gas Facilities Handbook was released that Enbridge Gas began to review the need for replacement Certificates.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

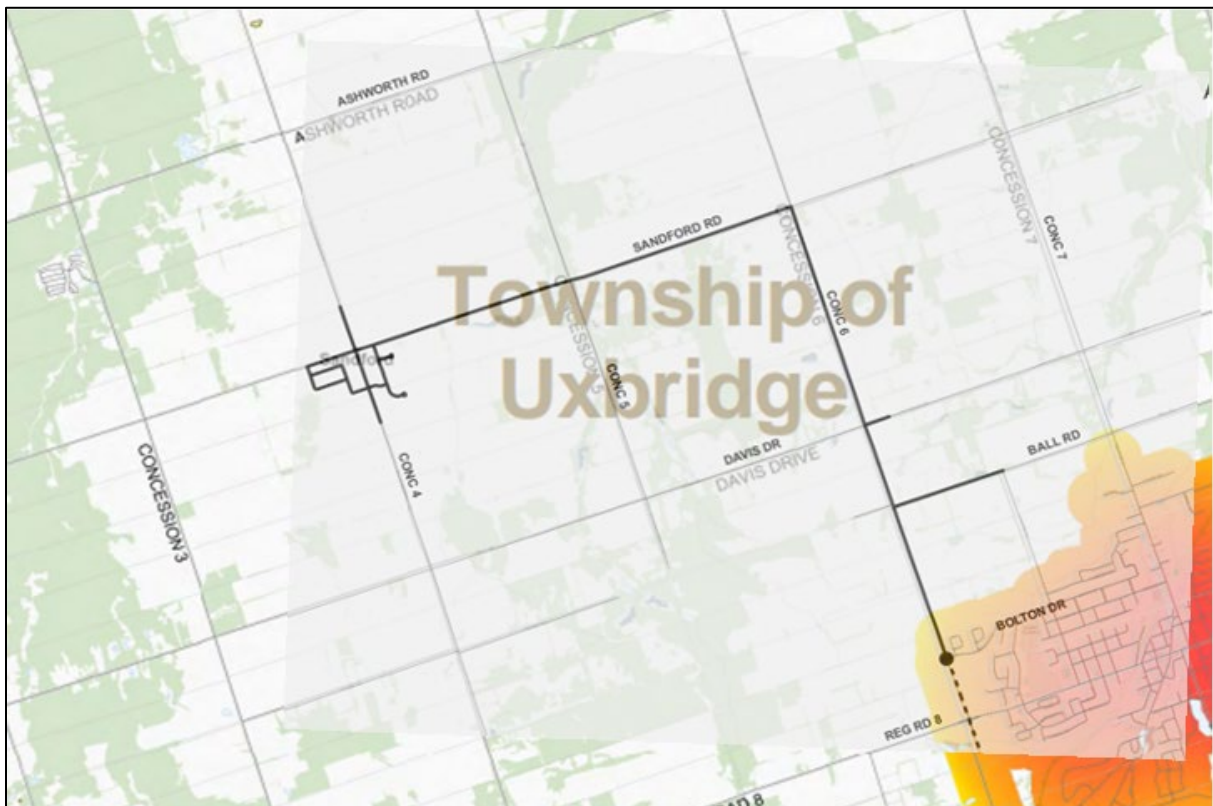
Question(s):

Please super-impose the proposed pipeline from Exhibit A, Tab 2, Schedule 1 onto the Heat Map in Exhibit A, Tab 2, Schedule 1, Attachment 2, or vice versa. This will illustrate how the Heat map correlated to the proposed Project.

Response:

Please see the proposed pipeline from Exhibit A, Tab 2, Schedule 1 superimposed onto the Heat Map in Exhibit A, Tab 2, Schedule 1, Attachment 2, as requested.

Figure 1: Proposed Pipeline Superimposed onto Heat Map



ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

Please explain the difference between the Enbridge in-person surveys of potential commercial/industrial customers and the Forum survey of potential customers. Are the duplicative activities?

Response:

A different type of building was approached by each of the two methods. Residential homes were the focus of the Forum survey and larger commercial and industrial properties were approached by Enbridge Gas directly. They were not duplicative activities.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

- a) What excess capacity is available from the Project to service additional customers in the future beyond the 183 forecasted, if any?
- b) Are the Ancillary Facilities only for the purpose to serve the 183 customers identified? If not please explain how many of the 183 customers would be served and what other customers would be served from the Ancillary Facilities now or in the future.

Response:

a) – b)

Please see the response at Exhibit I.ED-5 part a).

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

- a) Please confirm how many of the 199 surveys [Forum Research Survey] conducted are customers along the proposed route and how many would not have gas access based on the route proposed in the application.
- b) If 100% of potential customers along the proposed Project attached to it, what number of customers would that represent? (please provide the breakdown by residential, commercial/industrial if available).
- c) How many firm confirmation requests have been received from potential customers (please provide numbers by customer type, e.g. residential, commercial, etc.).

Response:

- a) The Forum Research survey was conducted along the route proposed in the application, with no changes to the scope made after the survey was completed. Individual respondents are not identified in the survey results due to the anonymous nature of the survey, but since the survey scope matches the proposed Project Area, Enbridge Gas assumes all 199 respondents will have access to natural gas.
- b) Please see Total Potential Customers at Exhibit B, Tab 1, Schedule 1, page 7, Table 2.
- c) None. Customer outreach and engagement to solicit gas applications will commence in 2024.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, Attachment 3, Forum Research Survey

Question(s):

The survey response rate was 261/1990 or approximately 54%. Please explain why the survey response rate was so low for this project.

Response:

As described in the Company's pre-filed evidence at Exhibit B, Tab 1, Schedule 1, Attachment 3, the response rate was 54% based on a list of 199 properties identified for surveying. Enbridge Gas does not consider the response rate of 54% to be low relative to other community expansion surveys. Please see the response at Exhibit I.STAFF-1 part a) for information regarding average response rates for similar surveys.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

Please provide a copy of the information and materials provided to consumers about both the costs and benefits of switching to an air source heat pump, as an alternative to natural gas.

Response:

Please see the response at Exhibit I.ED-9 part a) for the information provided to consumers regarding electric heat pumps. The information was provided via the Forum survey and no additional materials were provided.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

“Considering that the proposed Project was previously reviewed and approved by the Government of Ontario and the OEB for the purposes of granting funding under Phase 2 of the NGEF, Enbridge Gas did not assess other facility alternatives.”

Question(s):

- a) Please provide a copy of the approvals from the Government of Ontario and the OEB for this Project, and please highlight the specific approvals and scope related to this Project.
- b) If the number of customers proposed or project costs vary from what was submitted to the NGEF, please explain the difference.
- c) Please confirm that NGEF approval for access to grant funding does not automatically provide Leave to Construct (or other required regulatory) approvals related to this project.

Response:

- a) For the approval related to this Project from the Government of Ontario please refer to Schedule 2, Item 23, O.Reg. 24/19 Expansion of Natural Gas Distribution Systems.¹ The approval does not reference Project scope; however, the Project's NGEF proposal includes Project scope information (please see Attachment 1 to the response to Exhibit I.STAFF-3 for the Project's NGEF proposal).
- b) The Company's original Project proposal was developed based on a table-top estimate and desktop information available at the time; customer count information relied solely upon Municipal Property Assessment Corporation (MPAC) data and municipal/community address extracts to establish the basis for the forecast and to designate property types (e.g., residential, commercial or industrial). Following funding approval, development of the Project progressed including field visits to confirm addresses, refine the total potential customer count and Project scope, and to verify desktop category assumptions, where applicable. As a result of this Project

¹ <https://www.ontario.ca/laws/regulation/190024>

development, the Company gathered more accurate data relative to the MPAC information that supported its original proposal. As a result, 43 additional potential customers were identified.

c) Confirmed.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

PollutionProbe_IR_AppendixA_EnbridgeIncentives_20231031

Question(s):

- a) Please confirm that an OEB approved incentive is available of \$6500 for installation a complete new or replacement variable capacity cold climate air source heat pump (ccASHP) system, intended to service the entire home. If incorrect, please indicate the incentive and reference.
- b) Please indicate how many consumers in the proposed expansion project community were provided with the list of incentives available per noted above.

Response:

- a) The OEB approved incentive from Enbridge Gas for the installation of a complete new or replacement variable capacity cold climate air source heat pump (ccASHP) system, intended to service the entire home under the Home Efficiency Rebate Plus program is \$1,500. The total available incentive is \$6,500 which is made up of the above noted OEB approved incentive and a \$5,000 incentive from NRCan.
- b) Consumers who responded to the Forum Research survey were advised that incentives for ASHP systems are available; however, specific rebate amounts were not provided.

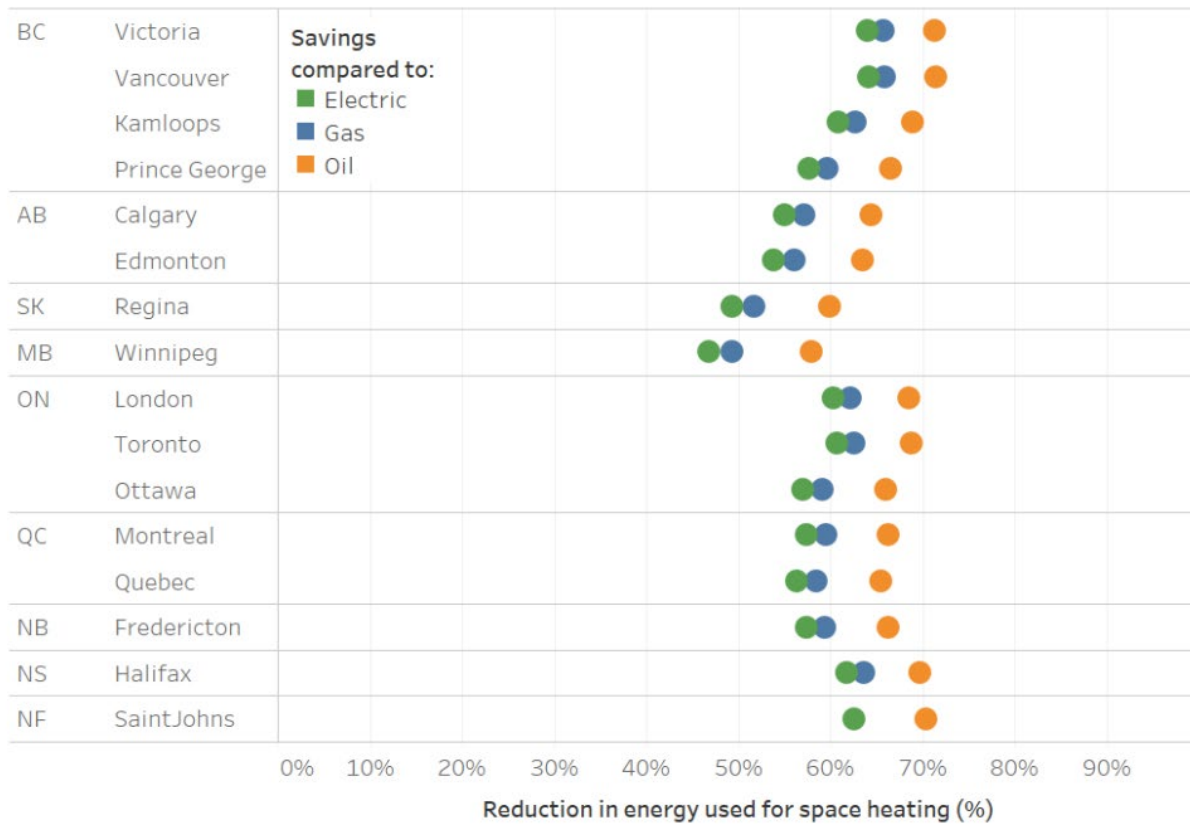
ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

PollutionProbe IR AppendixB CanmetReport [per EB-2022-0200 Exhibit J11.5]



The CanmetENERGY cold-climate air source heat pump (ccASHP) Report shows a ccASHP is 50% to 70% more efficient than natural gas, oil or resistance (i.e. baseboard) electric.

Question(s):

- a) Please indicate whether this information for ccASHPs was shared with potential customers as part of the information related to heat pumps. If it was, please provide a copy of the information/materials provided to consumers.
- b) This information was provide in EB-2022-0200 based on a 2022 Study. If Enbridge has a more recent/relevant study/information that provides a different savings rate for ccASHPs vs. natural gas, oil or electric resistance heating, please provide a copy.

Response:

- a) This information was not shared with potential customers.
- b) Please see the response at Exhibit I.ED-28 part a) for Enbridge Gas's information regarding annual operational costs for high-efficiency electric cold climate air source heat pump configurations compared to natural gas furnace configurations.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

PollutionProbe_IR_AppendixC_ASHPCalculator per EB-2022-0200.

Question(s):

The referenced online air source heat pump calculator compares annual heating costs compared to natural gas. If Enbridge has another source and values it believes is more accurate, please provide a copy.

Response:

Enbridge Gas is not aware of the accuracy of the information appended to the interrogatory by PP and is not relying on it with respect to the Company's application, and therefore cannot comment on its accuracy.

Please see the response at Exhibit I.ED-28 part a) for Enbridge Gas's information regarding annual operational costs for high-efficiency electric cold climate air source heat pump configurations compared to natural gas furnace configurations.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

PollutionProbe_IR_AppendixD_HeatPumpConversionGuidehouse per EB-2022-0200.
Enbridge's Guidehouse Pathways to Net Zero Emissions for Ontario Study (P2NZ).

Question(s):

Guidehouse indicated that 40% to 85% of Ontario households are expected to switch to a heat pump by 2050. If Enbridge has more current information or reports, please provide a copy.

Response:

The referenced information is from the Pathways to Net Zero Emissions for Ontario Study (P2NZ), which was not designed or intended to be interpreted as a forecast or prediction. The objective of the P2NZ study was to create and present possible scenarios relating to how Ontario's energy system could support the achievement of net zero emissions in Ontario by 2050.

Enbridge Gas submits that provincial-level scenario analyses regarding the year 2050 are not relevant to the Company's application. Enbridge Gas's natural gas attachment forecast for the Project area relies on the energy interests expressed by actual residents and business-owners within the Project area.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

Please confirm that Enbridge uses an average gas furnace life of 18 years as the best available assumption for its DSM Program. If a more recent (OEB approved) average life value is available, please provide the source.

Response:

Confirmed.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1 - Figure 1: Annual Energy Costs & Savings Versus Natural Gas, Including SES

Question(s):

- a) Please confirm that the values in Figure 1 relate to fuel only and do not include incremental equipment costs to retrofit a home or business with natural gas.
- b) Please confirm that the values in Figure 1 only include costs and savings related to heat and exclude costs/savings for cooling.
- c) Please confirm that the values in Figure 1 related to electricity are for electric resistance (e.g. baseboard) heating only. If that is not correct, please state the assumptions and provide the calculation.

Response:

- a) Confirmed.
- b) The values in Figure 1 are based on the energy-equivalent of annual natural gas consumption of 2,400 m³/yr, which does not include cooling. Please refer to the response at Exhibit I.ED-1 part c) - d) for the calculations and assumptions used to calculate Figure 1.
- c) Confirmed. Please refer to the response at Exhibit I.ED-1 part c) - d) for the calculations and assumptions used to calculate Figure 1.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

EB-2022-0200, Exhibit 8, Tab 2, Schedule 9, Attachment 10, p. 1, line 1, column (c), Updated March 8, 2023. Annual delivery charges include a monthly customer charges and demand charges. As part of the 2024 Rebasing proceeding, Enbridge Gas has proposed a straight fixed variable with demand rate design for general service rate classes. Rate design proposals are subject to the OEB's decision in Phase 3 of the 2024 Rebasing proceeding.

Question(s):

Please confirm that the residential fixed bill estimate for customers is approximately \$45 per month or \$564 per year. If incorrect, please provide an updated estimate and reference.

Response:

Not confirmed. The fixed bill estimate for customers is approximately \$45 per month, however, the per year total should be approximately \$550 consistent with the reference provided in the pre-amble of this question.¹

¹ EB-2022-0200, Exhibit 8, Tab 2, Schedule 9, Attachment, 10, p. 1, line 1, column (c).

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, Page 5, including Figure 1.

Question(s):

- a) Please confirm that the options provided in Figure 1 are meant to represent common fuels used historically in comparison to natural gas and not the current options for consumers in the community. If not correct, please explain.
- b) Please explain why other current options have not been included in the Figure 1 comparison and related marketing information, specifically cold climate air source heat pumps.

Response:

a) – b)

Figure 1 provides information regarding conversions from electricity (resistance heating), oil, and propane to natural gas. Figure 1 does not provide information regarding conversions to non-natural gas energy solutions, which Enbridge Gas has no ability to cause consumers to convert to via the Application. Please see the response at Exhibit I.ED-1 parts a) - b) for more information.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

Enbridge Gas served new or upgraded natural gas service requests from customers on the understanding that these customers are sufficiently informed about the available energy and technology solutions and that they have chosen the alternative that best suits their needs [EB-2022-0200 2.6-Staff-81, part (c)]

Question(s):

Please confirm that the above evidence from Enbridge is still accurate. If it is no longer accurate, please provide updated evidence to indicate how Enbridge views its role in providing resources and educational information on a full range of modern energy/technology options to new, potential or existing customers.

Response:

Confirmed.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

Please provide a copy of the all materials used for public consultation including those used for the Open House.

Response:

Public consultation materials used during the Environmental Assessment (including those used for the Information Session) can be found within Appendix F and Appendix G of the Environmental Report at Exhibit F, Tab 1, Schedule 1, Attachment 1.

A copy of the survey administered with residents in the Project Area and the communication letter regarding the survey is provided at Exhibit I.ED-7 Attachment 3 and at Exhibit I.ED-7 Attachment 2, respectively.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, including Table 1.

Question(s):

- a) Please confirm that the information in Table 1 does not include any calculations related to cooling (i.e. heating only).
- b) Table 1 indicates that Enbridge was not able to calculate the annual energy bill for those using a heat pump, but was able to calculate the annual bill for resistance (e.g. baseboard) electric, propane and heating oil. Please explain why Enbridge was able to only calculate some of the comparison figures and not heat pumps.
- c) Please provide the calculations for each fuel annual bill and savings rate vs. natural gas used in Table 1.
- d) Please provide Enbridge's best estimate, calculation and reference sources for the equivalent Table 1 values for a cold climate air source heat pump.

Response:

- a) Please see the response to Exhibit I.PP-14, part b).
- b) Annual energy bill calculations for the use of heat pumps are not relevant to the table referenced within the interrogatory. Please see the response at Exhibit I.ED-1, parts a) - b) for more information.
- c) Please see the response to Exhibit I.ED-1 part c) - d).
- d) Enbridge Gas respectfully declines to provide the requested information as electric heat pumps are not relevant to the table. Please see the response to Exhibit I.ED-1, part a) - b) for more information.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

Exhibit B, Tab 1, Schedule 1, including Table 1.

Question(s):

- a) Please provide a copy of all marketing and communication material provided by Enbridge or partners to consumers/businesses in the community to promote DSM or other energy efficiency opportunities when considering replacement of (water/space) heating systems or related energy efficiency measures.
- b) Please provide a copy of all communication material provided by Enbridge or partners to educate consumers/businesses on options and incentives under the Greener Homes program (delivered by Enbridge in Ontario).
- c) Please provide a table (or marketing material if a table is already included) of potential Greener Homes Grant Program incentives for residential homes, including those for air source heat pumps.
- d) Please confirm that Enbridge Gas is delivering the Greener Homes Grant program in the area impacted by the proposed project.
- e) Has Enbridge conducted analysis on consumers along the proposed pipeline that can or have (currently or recently) participated in the Greener Homes Grant Program. If yes, please provide a copy of the information and analysis.

Response:

a) - b)

Please see the response to Exhibit I.PP.9 part b).

c) Please see Attachment 1 to this response.

d) Confirmed.

e) No.

OEB-APPROVED ADDITIONAL MEASURE INCENTIVES FOR JOINT RESIDENTIAL WHOLE HOME PROGRAM

NRCan	NRCan Incentive	EGI Proposed Enhanced Incentive	OEB Approved Measures	OEB Approved Incentives for EGI	Total Enhanced Incentive (NRCan + OEB Approved EGI)
Canada Greener Homes Grant Measures					
Energy Audits			Energy Audits		
ENERGuide Pre & Post Evaluations	\$600	\$0	ENERGuide Pre & Post Evaluations	\$0	\$600
Attic/Cathedral Insulation			Attic/Cathedral Insulation		
Increase attic insulation to at least R50 from less than R12	\$1,800	\$200	Increase attic insulation to at least R50 from less than R12	\$550	\$2,350
Increase attic insulation to at least R50 from greater than R12 up to R25	\$600	\$400	Increase attic insulation to at least R50 from greater than R12 up to R25	\$200	\$800
Increase attic insulation to at least R50 from greater than R25 up to R35	\$250	\$600	Increase attic insulation to at least R50 from greater than R25 up to R35	\$75	\$325
Increase cathedral/flat roof insulation to at least R-28 from R12 or less	\$600	\$400	Increase cathedral/flat roof insulation to at least R-28 from R12 or less	\$200	\$800
Increase cathedral/flat roof insulation to at least R-28 from greater than R12 up to R25	\$250	\$600	Increase cathedral/flat roof insulation to at least R-28 from greater than R12 up to R25	\$75	\$325
Upgrade uninsulated cathedral ceiling/flat roof to at least R20 from R12 or less	\$600	\$400	Upgrade uninsulated cathedral ceiling/flat roof to at least R20 from R12 or less	\$200	\$800
Exterior Wall Insulation			Exterior Wall Insulation		
For adding insulation value of at least greater than R20 for 100% of building	\$5,000	\$2,500	For adding insulation value of at least greater than R20 for 100% of building	\$1,750	\$6,750
For adding insulation value greater than R12 up to R20 to 100% of the building	\$3,800	\$1,700	For adding insulation value greater than R12 up to R20 to 100% of the building	\$1,200	\$5,000
For adding insulation value greater than R7.5 up to R12 for 100% of building	\$3,300	\$1,200	For adding insulation value greater than R7.5 up to R12 for 100% of building	\$1,200	\$4,500
Exposed Floor Insulation			Exposed Floor Insulation		
For adding insulation value of at least R20 for entire exposed area (minimum area of 11 square meters or 120 square feet)	\$350	\$150	For adding insulation value of at least R20 for entire exposed area (minimum area of 11 square meters or 120 square feet)	\$100	\$450
Basement Insulation			Basement Insulation		
For sealing and insulating at least 80% of basement header to a minimum R20	\$240	\$110	For sealing and insulating at least 80% of basement header to a minimum R20	\$85	\$325
For sealing and insulating at least 50% of the entire basement slab by a minimum of R3.5	\$400	\$200	For sealing and insulating at least 50% of the entire basement slab by a minimum of R3.5	\$150	\$550
For adding insulation value greater than R22 to 100% of basement	\$1,500	\$1,000	For adding insulation value greater than R22 to 100% of basement	\$500	\$2,000

NRCan	NRCan Incentive	EGI Proposed Enhanced Incentive	OEB Approved Measures	OEB Approved Incentives for EGI	Total Enhanced Incentive (NRCan + OEB Approved EGI)
Canada Greener Homes Grant Measures					
For adding insulation value of R10 to R22 to 100% of basement	\$1,050	\$450	For adding insulation value of R10 to R22 to 100% of basement	\$350	\$1,400
For adding insulation value of R10 to R22 to 100% of exterior crawl space wall area, including header	\$1,300	\$700	For adding insulation value of R10 to R22 to 100% of exterior crawl space wall area, including header	\$400	\$1,700
For adding insulation value of R10 to R22 to 100% of exterior crawl space wall area, including header	\$1,040	\$460	For adding insulation value of R10 to R22 to 100% of exterior crawl space wall area, including header	\$360	\$1,400
For adding insulation value greater than R24 to 100% of crawl space ceiling	\$800	\$400	For adding insulation value greater than R24 to 100% of crawl space ceiling	\$250	\$1,050
Furnace/Boiler			Furnace/Boiler		
N/A	N/A	N/A	N/A	N/A	N/A
Space Heating Heat Pump			Space Heating Heat Pump		
Install a ground source heat pump – full system.	\$5,000	\$0	Install a ground source heat pump – full system.	\$1,500	\$6,500
Replace a ground source heat pump – heat pump unit only.	\$3,000	\$0	Replace a ground source heat pump – heat pump unit only.	\$1,000	\$4,000
Install a complete ENERGY STAR certified new or replacement air source heat pump (ASHP) system or a variable capacity cold climate air source heat pump (ccASHP) system. The system must be intended to service the entire home.	\$2,500	\$0	Install a complete ENERGY STAR certified new or replacement air source heat pump (ASHP) system or a variable capacity cold climate air source heat pump (ccASHP) system. The system must be intended to service the entire home.	\$750	\$3,250
Install a complete ENERGY STAR certified new or replacement air source heat pump (ASHP) system, intended to service the entire home.	\$4,000	\$0	Install a complete ENERGY STAR certified new or replacement air source heat pump (ASHP) system, intended to service the entire home.	\$1,250	\$5,250
Install a complete new or replacement variable capacity cold climate air source heat pump (ccASHP) system, intended to service the entire home.	\$5,000	\$0	Install a complete new or replacement variable capacity cold climate air source heat pump (ccASHP) system, intended to service the entire home.	\$1,500	\$6,500
Water Heating			Water Heating		
Replace domestic water heater with an ENERGY STAR certified domestic hot water heat pump (DHW-HP)	\$1,000	\$0	Replace domestic water heater with an ENERGY STAR certified domestic hot water heat pump (DHW-HP)	\$300	\$1,300
Windows & Doors			Windows & Doors		
Replace windows or sliding glass doors with ENERGY STAR most efficient models.	\$250	\$0	Replace windows or sliding glass doors with ENERGY STAR most efficient models.	\$75	\$325
Replace windows or sliding glass doors with ENERGY STAR certified models.	\$125	\$0	Replace windows or sliding glass doors with ENERGY STAR certified models.	\$50	\$175
Replace hinged doors, with or without sidelites or transoms with ENERGY STAR certified models.	\$125	\$0	Replace hinged doors, with or without sidelites or transoms with ENERGY STAR certified models.	\$50	\$175

NRCan	NRCan Incentive	EGI Proposed Enhanced Incentive	OEB Approved Measures	OEB Approved Incentives for EGI	Total Enhanced Incentive (NRCan + OEB Approved EGI)
Canada Greener Homes Grant Measures					
Air Sealing			Air Sealing		
Achieve base target	\$550	\$0	Achieve base target	\$175	\$725
Achieve 10% or more above base target	\$810	\$0	Achieve 10% or more above base target	\$240	\$1,050
Achieve 20% or more above base target	\$1,000	\$0	Achieve 20% or more above base target	\$300	\$1,300
Renewable Energy System			Renewable Energy System		
Install solar panels (photovoltaic (PV) system) ≥ 1.0 kW	\$1,000 per kW	\$0	N/A	\$0	\$1,000 per kW
Resiliency Measures			Resiliency Measures		
Batteries connected to Photovoltaic systems	\$1,000	\$0	Batteries connected to Photovoltaic systems	\$0	N/A
Roofing Membrane	\$150	\$0	Roofing Membrane	\$0	N/A
Foundation water-proofing	\$875	\$0	Foundation water-proofing	\$0	N/A
Moisture proofing crawl space floor, walls and headers	\$600	\$0	Moisture proofing crawl space floor, walls and headers	\$0	N/A
Thermostat			Thermostat		
Replace a manual thermostat with a programmable thermostat	\$50		Replace a manual thermostat with a programmable thermostat	\$20	\$70
Replace a manual thermostat with a adaptive thermostat (Natural gas heated participants in the Enbridge franchise area are eligible for an enhanced \$75 rebate (or \$125 rebate if Moderate Income eligible), all other participants eligible for \$50 rebate.	\$50	\$75	Replace a manual thermostat with a adaptive thermostat (Natural gas heated participants in the Enbridge franchise area are eligible for an enhanced \$75 rebate (or \$125 rebate if Moderate Income eligible), all other participants eligible for \$50 rebate.	\$75	\$125
Multi Measure Bonus			Multi Measure Bonus		
N/A	\$0		N/A	N/A	N/A

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

Is this proposed Project included in the most current Enbridge Asset Management Plan (AMP) or Utility System Plan (USP)? If not, why not. If yes, please provide the references and documents (or links).

Response:

Community Expansion (CE) projects are categorized under the System Access category of projects and are included in the USP budget totals.¹ All regulated utility projects are included in the USP.

The 2023-2032 AMP includes commentary on CE projects generally. Further, the proposed Project is included on the map displaying approved project locations.² However, as stated in the 2023-2032 AMP, specific CE project details and capital expenses are excluded from the AMP as they are not subject to optimization and follow separate project funding criteria.³

¹ EB-2022-0200, Exhibit 2, Tab 6, Schedule 1, p. 53.

² EB-2022-0200, Exhibit 2, Tab 6, Schedule 2, p. 70, Figure 5.1-6.

³ EB-2022-0200, Exhibit 2, Tab 6, Schedule 2, p. 73.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

- a) Please confirm that the amortization period (for EBO 188 analysis) for the proposed Project in the application is 40 years. If that is incorrect, please provide the correct figure.
- b) Please confirm the amortization period Enbridge intends to apply to the Pipeline and Ancillary Facilities.
- c) Please explain how any residual (unamortized) costs would be recovered from rate payers if the proposed pipeline becomes stranded (i.e. not used and useful) before it is fully depreciated.
- d) Enbridge is aware that the OEB could decrease the amortization period for new capital assets starting in 2024 and Enbridge has proposed a 30 year value (per Enbridge EB-2022-0200 Reply Argument). Please indicate what the impact would be to this project if the OEB applies:
 - A 30 year amortization period
 - A 15 year amortization period.

Response:

Enbridge Gas interprets the term “amortization period” used within the interrogatory as “revenue horizon”.

- a) Enbridge Gas confirms that a 40-year revenue horizon has been used for the Project proposed in this Application.
- b) Enbridge Gas has applied the same revenue horizon to the Pipeline and Ancillary Facilities. Please see the response to part a) above.
- c) Enbridge Gas has no basis to believe that the proposed facilities will become stranded assets. From an accounting and regulatory perspective, Enbridge Gas applies group depreciation procedures to plant assets, including gas meters and distribution service lines. If the assets are retired before their expected average

service life is reached (as reflected for the group), the implied loss is captured in accumulated depreciation. The loss would be reflected in subsequent depreciation studies and recovered through depreciation expense over the remaining life of the assets left within the group.

- d) The Project requires funding assistance as part of Phase 2 of the Government of Ontario's Natural Gas Expansion Program as well as a System Expansion Surcharge (SES) for 40 years from the Project customers. The Project would not be feasible and would not proceed if the revenue horizon is reduced to a period less than 40 years.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

Has Enbridge conducted a risk assessment on the probability that the proposed pipeline will become a stranded asset before being fully depreciated? If yes, please provide a copy of the assessment and all related materials. If no, what evidence exists to support that the pipeline will remain used and useful for the full amortization period.

Response:

No. Enbridge Gas has no reasonable basis to believe that the proposed facilities will become stranded assets and thus has had no reason to complete the assessment in question. The Project's natural gas attachment forecast is based on the energy interests expressed by actual residents and business owners within the Project area

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

Please confirm that Enbridge has not received approval (from the OEB, TSSA or other relevant regulator) for use of 100% hydrogen for the Project assets proposed. If approval has been received for 100% hydrogen, please provide a copy of such approval.

Response:

Confirmed.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

Enbridge indicates that the System Expansion Surcharge (“SES”) to all new customers taking gas distribution service from the Project will be a fixed volumetric rate of \$0.23 per cubic metre of gas to be charged in addition to Enbridge Gas’s base distribution rates as approved by the OEB. The SES is proposed to be charged to all customers taking gas distribution service from the Project for a term of 40 years. Please indicate the SES impact if the amortization period the OEB approves is less than 40 years (e.g. 30 years).

Response:

If the approved revenue horizon is less than 40 years, it will result in a PI of less than 1.0 and make the Project unfeasible.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

Please confirm that Enbridge will fund this project from its capital envelopes for 2025 if approved by the OEB. If that is not correct, please clarify.

Response:

Confirmed. Enbridge Gas has included the original forecasted capital costs and revenues in its 2024 Rate Rebasing application.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

PollutionProbe_IR_AppendixF_ExpansionProjectPI

Question(s):

Recent Enbridge Community Expansion Projects have shown a trend of decreasing Portfolio Index (PI) and a lower actual PI than forecasted in the OEB Leave to Construct proceedings. This has also caused the Project Portfolio to dip below the OEB required PI=1.0. Please indicate how the proposed Project compares to other recent community expansion projects and what mitigation has been put in place to reduce the risks that this Project to result in an actual PI less than 1.0.

Response:

For the Sandford Community Expansion Project, Enbridge Gas conducted third-party market research to assess consumer interest in converting to natural gas, engaged major builders/developers, and conducted an additional outreach campaign to collect expressions of interest to supplement the market research. Enbridge Gas has no reason to believe that the PI for the Project will be less than 1.0.

Comparing “trends” from other projects to the proposed project is inappropriate and irrelevant, as each project has unique characteristics and economics. Enbridge Gas will report on the actual capital costs, actual customer attachments, and final project PI through future rebasing applications, following completion of the 10-year rate stabilization period(s) (RSP) and attachment forecast term associated with each community expansion project, in accordance with the OEB’s determinations in prior applications, including the Company’s SES/TCS/HAF Application.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Question(s):

Below is a summary of costs due to the Project and consumers attaching to the Project. If any values are not correct or missing, please provide an updated value and reference.

Item	Estimated Cost
Project Initial Capital Cost ¹	
• (1) Proposed Pipeline Project	\$5,050,496
• (2) Ancillary Facilities	<u>\$2,152,273</u>
Total	\$7,202,770
NPV of O&M Cost (gas) per customer ²	\$547,000
NPV of other expenses per customer ³	\$2,210,000
Average Cost of a Residential Customer ⁴ (service, meter, O/Hs, etc.) ⁵	\$5,991

¹ E/1/1 Table 1

² Per Exhibit E, Tab 1, Schedule 1, Attachment 2

³ \$556,000 + \$1,954,000 = \$2,210,000 per Exhibit E, Tab 1, Schedule 1, Attachment 2

⁴ EB-2022-0200 Exhibit J13.8

⁵ Cost for industrial/commercial would be higher, but residential used to estimate lower end of the range.

Response:

The NPV of O&M Cost (gas) per customer of \$547,000 is incorrect. As per Attachment 1 to Exhibit E, Tab 1, Schedule 1, this figure represents the total O&M expenditure over a 40 year revenue horizon. The correct NPV of O&M cost per customer is \$1,150. This figure has been calculated by Enbridge Gas for the purpose of this response.

The NPV of other expenses per customer of \$2,210,000 is incorrect. As per Attachment 1 to Exhibit E, Tab 1, Schedule 1, this figure represents the total municipal and income tax over a 40 year revenue horizon. The correct NPV of other expenses per customer is \$5,224. This figure has been calculated by Enbridge Gas for the purpose of this response.

The average cost of a residential customer of \$5,991 is not Project-specific. As per the response at Exhibit I.ED-23, part a), the average all-in service cost for a customer for the Project is \$11,584.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Pollution Probe (PP)

Interrogatory

Reference:

Exhibit F, Tab 1, Schedule 1, Attachment 1.

Question(s):

The Environmental Report identifies a coldwater watercourse along the proposed route.

- a) Has permit approval been received to cross the coldwater watercourse? If yes, please provide a copy.
- b) Has Enbridge confirmed what the restrictions are (including time periods) for construction due to the coldwater watercourse?

Response:

- a) Permits will be required from the Lake Simcoe Regional Conservation Authority for watercourse crossings (including for coldwater watercourses) along the preferred route. Permit applications have not yet been submitted; however, permits will be obtained prior to construction.
- b) Watercourse crossings (including coldwater watercourses) are currently proposed to occur by Horizontal Directional Drill. Should in-water works be required, work would be completed between June 15 and September 30. Please refer to Table 10 of the Environmental Report at Exhibit F, Tab 1, Schedule 1, Attachment 1, for a list of proposed measures to be implemented should in-water works be required, which includes measures to implement near coldwater watercourses. Additional conditions or mitigation measures may be identified by the Lake Simcoe Regional Conservation Authority permit(s), once obtained.