Schedule CC Enbridge Gas Community Expansion Project Proposal

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

Part I – Name of Proponent	
Name of Proponent:	File No:
Enbridge Gas Inc.	EB-2019-0255
Project Name: Burk's Falls Community Expansion Proj	ect
Address of Head Office:	Telephone Number:
50 Keil Drive North	519-436-4600
Chatham, ON N7M 5M1	313 430 4000
Chatham, Civ 14714 Givi	
Name of Individual to Contact:	Office Telephone Number:
	519-436-5325
Patrick McMahon	Cell Phone Number:
	519-437-0759
	Email Address:
	patrick.mcmahon@enbridge.com

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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. 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.

	II – Description of and Sup	port for Project		
3.1 Redacted	Provide a general overvieus following: communities to	• •		
	•		ınities; existing population	
		•	institutional and industrial	
	sectors; routing; length of	of pipeline; and nomina	al pipe size.	
		e access to natural gas to	the Village of Burk's Falls. The a forecasted 41 customers (39	
	There are two proposed tie-in	ns. The first tie-in will be n	ear the intersection of	
	and co	onnecting to 1 1/4" polyethy	ylene pipe to supply to the next	
	subdivision for future custome		ocated along oposed distribution pipeline will	
	consist of 2,469 m of 2" polye			
	to The pro	posed system is also desi	gned to provide additional natural	
	gas supply to existing custom	ners as requested by the c	ommunity.	
	There will be no reinforcemen	nt required to accommodat	te additional loads for the system.	
	The approximate length and	size of the distribution pipe	elines required:	
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	2	2,469	
	Please refer to Schedule C	C1 for Project Map.		
3.2	Provide the annual and c attachments over the ten			
	commercial/institutional indicate for each custome would be firm or interrup	and industrial sectors er type whether the se	for each community.	
	modia be initi of interrup	unio.		
	Please refer to Schedule C	C2, 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 CC2, Table 3.3.
3.4	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.
	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.
	Please refer to Schedule CC3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule CC4 for Proposed Construction Schedule.
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.
	Please refer to Schedule CC5.

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.

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.

Please refer to Schedule A6 for Enbridge's CPCN for the Village of Burk's Falls (EBC 114) which covers the entire area of the proposed project.

Part IV – Cost of Project

4.1 Confirm that the proposed project includes a ten-year rate stability period.

The proposed project does include a ten-year rate stability period.

4.2 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).

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).

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.

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.

Please refer to Schedule CC2, Table 4.2.

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule CC2, Table 4.3.

Part \	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project. \$1,237,071 Please refer to Schedule CC2, Table 5.1.
	Tiedse feler to ochedule CO2, Table 3.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$30,172
	Please refer to Schedule CC2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$14.19
	Please refer to Schedule CC2, Table 5.3.

Part VI – Distribution Charge

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.

Provide a confirmation that there would be no material crosssubsidization between rate classes.

Please refer to Schedule CC2, Table 6.1.

Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part VII - Profitability Index / Benefit to Cost Ratio

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.

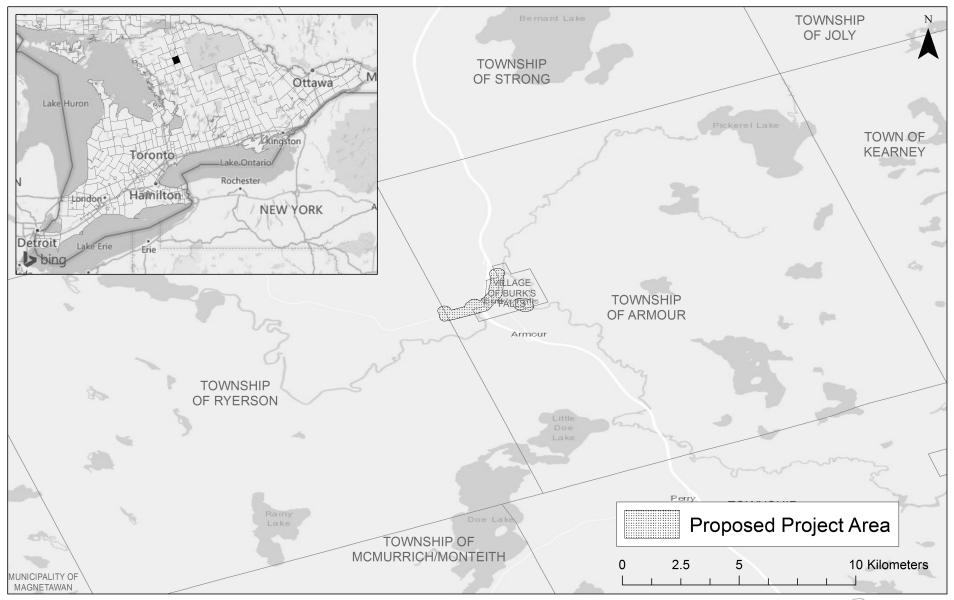
The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a "portfolio" of projects).

Please refer to Schedule CC2, Table 7.1.

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.

Please refer to Schedule CC2, Table 7.2.

Schedule CC1 Enbridge Gas Community Expansion Project Proposal





Schedule CC2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Burk's Falls

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period

Customer TypeFirm / ITResidentialFirmCommercialFirmInstitutionalFirmAgriculturalFirmIndustrialFirmTotal CustomersFirm

Cumulative Customers

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

Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

Customer Type

Residential Commercial Institutional Agricultural Industrial Total Volumes

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

Total Capital Costs

Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule CC2 Redacted

Project Year	<u>1</u>	2 12	<u>3</u> 5	<u>4</u>	<u>5</u> 2	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	12	12	5	3	2	1	1	1	1	1	39 2
	-	2	-	-	-	-	-	-	-	-	2
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
-	- 10	- 4.4	- -	-	-	- 4	- 1	- 4	- 4	- 4	- 44
	<u>12</u>	<u>14</u>	<u>5</u>	<u>3</u>	<u>2</u>	1	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>41</u>
	12	26	31	34	36	37	38	39	40	41	
						olumes - m3					
Project Year	<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>
	12,500	37,500	55,300	63,700	68,900	72,000	74,000	76,000	78,000	80,000	617,900
	-	3,600	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	61,200
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-			-		
	<u>12,500</u>	<u>41,100</u>	<u>62,500</u>	<u>70,900</u>	<u>76,100</u>	<u>79,200</u>	<u>81,200</u>	<u>83,200</u>	<u>85,200</u>	<u>87,200</u>	<u>679,100</u>
					Cumulative	Volumes - m3	3				
Project Year	1	<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>	
	12,500	50,000	105,300	169,000	237,900	309,900	383,900	459,900	537,900	617,900	
	-	3,600	10,800	18,000	25,200	32,400	39,600	46,800	54,000	61,200	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
_	<u>12,500</u>	<u>53,600</u>	<u>116,100</u>	<u>187,000</u>	<u>263,100</u>	342,300	<u>423,500</u>	<u>506,700</u>	<u>591,900</u>	<u>679,100</u>	







Community Expansion Burk's Falls

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue

SES Revenue

Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

EB-2019-0255 Schedule CC2 Redacted

\$ 1,237,071

Year 10

30,172

Year 10 14.19

Project Year Total 2,716 8,736 14,996 16,127 17,249 18,140 18,585 \$ 144,228 13,180 16,804 17,695 2,875 9,453 14,375 16,307 17,503 18,216 18,676 19,136 19,596 20,056 156,193 5,591 18,189 27,555 31,303 33,630 35,020 35,925 36,831 37,736 38,641 \$ 300,421

Net Present Value







<u>1.00</u>

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

Net Present Value





Page 3 of 3

EB-2019-0255 Schedule CC2 Redacted

Schedule CC3 Enbridge Gas Community Expansion Project Proposal

EB-2019-0255 Schedule CC3

Section 3.4 Burk's Falls

Total Forecasted Customers 41 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	GHG per customer	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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	9	21%	\$ 5,000	\$ 2,787	\$ 1,460	\$ 1,328	\$ 11,432	6.6	-2.4	. 56	(21)
Electricity F/A	4	9%							3.6	2	13
Electricity Baseboard	5	12%	\$ 12,000	\$ 1,998	\$ 1,460	\$ 538	\$ 2,649	0.5	3.6	3	18
Propane	18	44%	\$ 600	\$ 1,611	\$ 1,460	\$ 152	\$ 2,740	5.1	-1.0	92	(18)
Wood	4	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	2	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	41	100%	\$ 31,100	\$ 8,395	\$ 5,838	\$ 2,557	\$ 18,808	12.7	3.8	153	(8)

1 Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specially, 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.

		En	nission 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 01 (Community Expansion, Non-FN)												
	Consumption Equivale		Price per Unit										
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.663								
Heating oil	L	2397	Heating oil	\$/L	1.163								
Electricity	kWh	17778	Electricity	\$/kWh	0.112								
Propane	L	3309	Propane	\$/L	0.487								

Notes:

Gas prices correspond to EGI (Union Gas North West) 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 are currently unavailable for the Union North Rate zones.

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

Schedule CC4 Enbridge Gas Community Expansion Project Proposal

Burk's Falls Community Expansion Project Pipeline Construction Schedule

Task Nama		2022										2023											2024													
Task Name		Feb	Ma	r Apı	r May	y Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan F	eb N	Mar /	pr N	⁄lay J	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																				
Permits & Approvals																																				
Leave to Construct Application and Approval																	-																			
Construction and Testing																																				
In Service																																				

Schedule CC5 Enbridge Gas Community Expansion Project Proposal





VILLAGE OF BURK'S FALLS

172 Ontario Street • PO Box 160 • Burk's Falls ON POA 1C0 P 705-382-3138 • F 705-382-2273 • www.burksfalls.net

March 24, 2020

Enbridge Gas Inc. operating as Union Gas 1211 Amber Dr. Thunder Bay ON P7B 6M6

RE: Natural Gas Expansion Program

To Whom it may concern:

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 Expansion Program will assist in expanding natural gas services to new areas that are not economically feasible without the support. Burk's fall is one such area.

	alis, I would like to formally express our interest to have the	_
	ncluded on Enbridge Gas' list of projects being proposed to t	
Ontario Energy Board for considera	ation for financial support through the Natural Gas Expansion	ı
Program.		
	These projects are importa	
to our community as we work with o	our Regional Community Economic Development Committee)
administered with to grow E	Burk's Falls. We do not have information on heating systems	s for
properties within the Village so we	are not able to provide you with details on which property is	
already connected and potential ne	ew clients.	

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, North Development and Mines. Burk's Falls has two large projects that will bring economic development to the area and free up expenses to create new jobs. Natural gas expansion will be critical to the growth of our community. 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.

We look forward to working with you.

Sincerely, Cathy Stul

Cathy Still Mayor

Schedule CC6 Enbridge Gas Community Expansion Project Proposal

Was Page 1. See Image [OEB:113BH-0:1]

E.B.C. 114

IN THE MATTER OF The Municipal Franchises Act, R.S.O. 1970, Chapter 289, Section 8 and amendments thereto;

3

2

AND IN THE MATTER OF an application by Northern and Central Gas Corporation Limited for a Certificate of Public Convenience and Necessity to construct works and to supply gas to the inhabitants of the Village of Burk's Falls in the District of Parry Sound.

BEFORE: S. J. Wychowanec, Vice Chairman and Presiding Member

4

5

J. R. Dunn, Member

6

June 20, 1980

7

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

8

UPON the application of Northern and Central Gas Corporation Limited dated March 21, 1980, for a certificate of public convenience and necessity to construct works and to supply gas in the Village of Burk's Falls;

9

AND UPON the application having been heard at Toronto on May 6, 1980, in the presence of counsel for the Applicant and for the Board, no one else appearing, and Reasons for Decision having been delivered on June 20, 1980:

Was Page 2. See Image [OEB:113BH-0:2]

10

1. IT IS ORDERED that a certificate of public convenience and necessity is hereby granted to Northern and Central Gas Corporation Limited to construct works to supply and to supply gas in the Village of Burk's Falls.

11

2. AND IT IS ORDERED that the Certificate of Public Convenience and Necessity hereby granted may be assigned by Northern and Central Gas Corporation Limited to Montreal Trust Company, as trustee, and to such person, firm or corporation to whom Montreal Trust Company, as trustee, may assign such Certificate in execution of the trusts under a deed of trust and mortgage, together with in each case all rights and powers, statutory or otherwise, which flow from or are evidenced by such Certificate.

12

3. AND IT IS ORDERED that the Board's costs are fixed at \$154.18 to be now paid by the Applicant.

ISSUED at Toronto this 25th day of September, 1980.	13
ONTARIO ENERGY BOARD	14
<signed> S. A. C. Thomas Secretary to the Board</signed>	15

Schedule DD Enbridge Gas Community Expansion Project Proposal

Caledon	(
---------	---

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

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

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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. 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.

Part II	II – Description of and Supp	ort for Project	
3.1	Provide a general overview	of the project, whi	ch is to include the
Redacted			
			nunities; existing population
	of each community by residential, commercial/institutional and industrial		
	sectors; routing; length of		
			ne Town of Caledon along
		•	ccess to natural gas to a forecasted
	100 customers (94 residential,	2 commercial / instituti	onal and 4 industrial).
	The proposed project will tie in	to an aviating NDC 0 a	tool VUD ningling on
			teel XHP pipeline on and tie-in location to cut the pressure
	down to distribution levels. Pro	nosed facilities run	along
			also run along,
	The approximate length and size	ze of the distribution pip	pelines required:
	Pipe Type		
	Polyethylene	2	
	Polyethylene	4	9,235
	Please refer to Schedule DD	1 for Project Map.	
2.0	Provide the annual and cur	mulative forecast of	f the number of customer
3.2	attachments over the ten-y	ear rate stability pe	eriod by residential.
	commercial/institutional ai		
	Indicate for each customer		
	would be firm or interruptil		•
	Please refer to Schedule DD	2 Table 3.2.	
3.3	Provide the annual and cur	nulative forecast of	volumes (in m³) over the ten-
			commercial/institutional and
	industrial sectors for each		
		•	
	For the residential segmen	t, the default value	for the average consumption
			s more accurate information
	regarding the annual cons		
	community may use that v	alue, in which case	it must explain how it has
	determined that it is more		
	Please refer to Schedule DD	2, Table 3.3.	

3.4	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.
	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.
	Please refer to Schedule DD3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule DD4 for Proposed Construction Schedule.
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.
	Please refer to Schedule DD5.
3.7	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.
	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.
	Please refer to Schedule DD6 for Enbridge's CPCN for the Town of Caledon (EB-2008-0410) which covers the entire area of the proposed project.

Part IV – Cost of Project Confirm that the proposed project includes a ten-year rate stability period. The proposed project does include a ten-year rate stability period. 4.2 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). 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). 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. 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.

Please refer to Schedule DD2, Table 4.2.

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule DD2, Table 4.3.

Part \	Part V – Section 36.2 Funding		
5.1	Provide the total amount of section 36.2 funding needed to support the project.		
	\$5,048,975 Please refer to Schedule DD2, Table 5.1.		
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project. \$50,490 Please refer to Schedule DD2, Table 5.2.		
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project. \$8.09 Please refer to Schedule DD2, Table 5.3.		

Part \	/I – Distribution Charge
6.1	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.
	Provide a confirmation that there would be no material cross- subsidization between rate classes.
	Please refer to Schedule DD2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

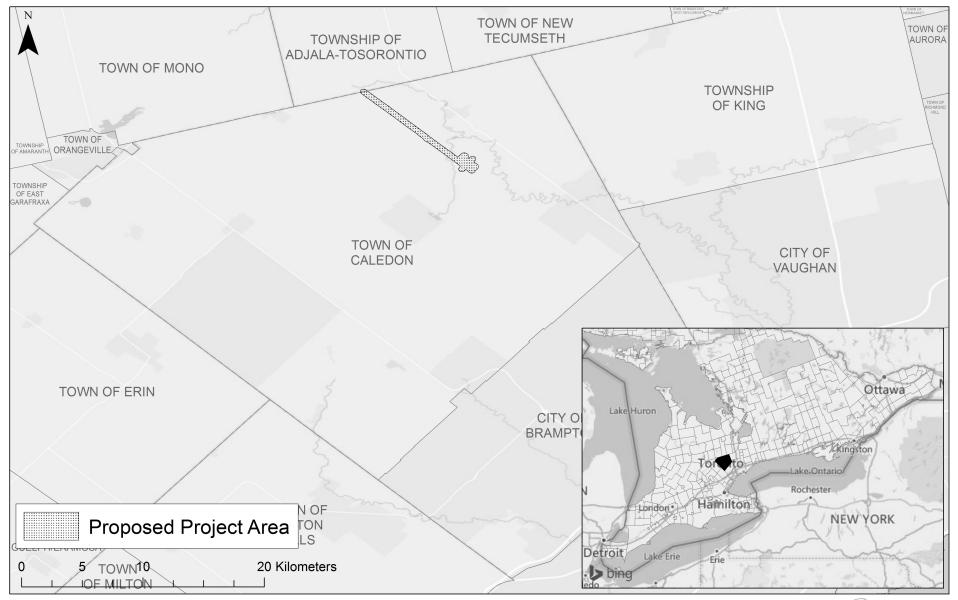
Part \	VII – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support. 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).
	Please refer to Schedule DD2, Table 7.1.
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.
	Please refer to Schedule DD2, Table 7.2.

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). • Leave to Construct
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. Please refer to Schedule DD4.

Schedule DD1 Enbridge Gas Community Expansion Project Proposal

Caledon	()
---------	---	---

Caledon 2





Schedule DD2 Enbridge Gas Community Expansion Project Proposal

Caledon ((
-----------	---

ommunity Expansion	Caledon () InService Date: Nov-01-2023												EB-2019-02 Schedule D Redacted	
Table 3.2 - Custome	er Attachments Over The Rate Stability Period Customer Type Residential Commercial Institutional Agricultural Industrial Total Customers Cumulative Customers	Firm / IT Firm Firm Firm Firm Firm Firm	Project Year	1 25 - - - - 25	2 22 1 - - 2 25 50	3 9 1 - - 1 11 61	4 6 - - 1 <u>7</u> 68	5 5 - - - 5 73	6 6 - - - - 5	7 5 - - - 5 84	8 6 - - - - <u>6</u> 90	9 5 - - - 5 95	10 5 - - - - 5	Total 94 2 - 4 100
Table 2.2 Appual o		y Pariad (m2)	_	25	50	61	00	73	79	04	90	95	100	
Table 3.3 - Affilial a	and Cumulative Volumes Over The Rate Stability Period (m3) Annual Volumes - m3													
	Customer Type Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	30,000 - - - - 30,000	86,400 1,200 - 100,000 187,600	250,000 377,200	4 141,600 4,800 - - 350,000 496,400	5 154,800 4,800 - - 400,000 559,600	6 168,000 4,800 - - 400,000 572,800	181,200 4,800 - - 400,000 586,000	194,400 4,800 - - 400,000 599,200	207,600 4,800 - - 400,000 612,400	219,600 4,800 - - 400,000 624,400	Total 1,507,200 38,400 - 3,100,000 4,645,600
				Cumulative Volumes - m3										
	Customer Type Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	30,000 - - - - - 30,000	116,400 1,200 - - 100,000 217,600	240,000 4,800 - - 350,000 594,800	381,600 9,600 - - 700,000 1.091,200	536,400 14,400 - - 1,100,000 1,650,800	704,400 19,200 - - 1,500,000 2,223,600	885,600 24,000 - - 1,900,000 2,809,600	1,080,000 28,800 - - 2,300,000 3,408,800	1,287,600 33,600 - 2,700,000 4,021,200	1,507,200 38,400 - - 3,100,000 4,645,600	
Table 4.2 - Total Cap	pital Costs At End Of The Rate Stability Period													
	Total Capital Costs			Year 10										
Table 4.3 - Revenue	Requirement Over The Rate Stability Period													
	Revenue Requirement		Project Year	1	<u>2</u>	<u>3</u>	4	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	9	<u>10</u>	<u>Total</u>
	Closing Rate Base (net of proposed Section 36.2	2 funding)		<u>Year 10</u>										

Caledon (_____

InService Date: Nov-01-2023

EB-2019-0255 Schedule DD2 Redacted

60,824 \$ 437,794

1,068,488

\$ 1,506,282

143,612

<u>204,436</u>

56,408

137,816

194,224

58,721

140,852

<u>199,573</u>

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

\$ 5,048,975

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

<u>Year 10</u> 50,490

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

Section 36.2 Funding Amount Per Volume (m3)

<u>Year 10</u> 8.09

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

\$	5,257	20,726	35,886	44,626	49,469	51,782	54,095
	6,900	43,148	86,756	114,172	128,708	131,744	134,780
\$	12,157	<u>63,874</u>	122,642	<u>158,798</u>	<u>178,177</u>	<u>183,526</u>	<u>188,875</u>

Net Present Value





<u>1.00</u>

_		_	
Commu	initv	⊢ xnar	าดเลเ
~~	41 II C Y	-APG	

ion Caledon (_____)
InService Date: Nov-01-2023

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

Cash Inflow
Revenue:
Distribution Revenue
System Expansion Surcharge (SES) Revenue
Total Revenue (A)

Expenses:
O&M Expense
Municipal Tax
Income Tax
Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital
Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

EB-2019-0255 Schedule DD2 Redacted

Schedule DD3 Enbridge Gas Community Expansion Project Proposal

Caledon ()
-----------	---

Section 3.4 Caledon (_____

Total Forecasted Customers 100 **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	GHG per customer	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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	21	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 32,965	7.2	-2.7	151	(56)
Electricity F/A	9	9%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 6,358	0.6	3.9	5	35
Electricity Baseboard	12	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 8,477	0.6	3.9	7	47
Propane	44	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 12,466	5.6	-1.1	. 246	(48)
Wood	9	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	5	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	100	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 60,267	13.9	4.1	409	(22)

¹ Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specifially, 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.

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

		Emission Factors										
	CO2	CH4	N2O	CO2e	Units							
Natural Gas	1863 g/m3	0.037 g/m3	0.035 g/m3	0.0018743	55 tonnes/m3							
Heating Oil	2725 g/L	0.006 g/L	0.031 g/L	0.0027343	88 tonnes/L							
Propane	1510 g/L	0.024 g/L	0.108 g/L	0.0015427	'84 tonnes/L							
Electricity	30 g/kWh	-	-	0.000	03 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 Equivale		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 montly average EDPRO residential rates for Zone 4 (March 2020)

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

Schedule DD4 Enbridge Gas Community Expansion Project Proposal

Caledon	()
---------	-----

Caledon (______) Community Expansion Project Pipeline Construction Schedule

Task Name		2022						2023									2024																			
		Feb	Ma	r Ap	r Ma	ay Jur	n Ju	ıl Au	ıg Se	ер О	ct N	ov De	c Ja	n Fe	b Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																				
Permits & Approvals											4		F																							
Leave to Construct Application and Approval																																				
Pre-Construction, Construction and Testing													T																							
In Service																																				

Schedule DD5 Enbridge Gas Community Expansion Project Proposal

Caledon	()
---------	---	---



Allan Thompson Mayor

EB-2019-0255 Schedule DD5 Redacted

Sent via E-Mail: webmaster-corp@enbridge.com

May 1, 2020

Al Monaco, President and Chief Executive Officer Enbridge Inc. Suite 3000 425 1st Street South-West Calgary, Alberta T2P 3L8

RE: EXPRESSION OF SUPPORT FOR NATURAL GAS EXPANSION SUPPORT PROGRAM FOR TOWN OF CALEDON

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.

The Town of Caledon is one such area, and we are eager to bring this affordable, reliable fuel source to our residents and businesses.

On April 28, 2020, Caledon Council adopted a resolution formally expressing interest to have the three underserviced areas of included on Enbridge Gas' list of projects being proposed to the Ontario Energy Board (OEB).

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.

For more information regarding this matter, please contact the undersigned.

Thank you for your attention to this matter.



Allan Thompson Mayor

Sincerely,

Allan Thompson

au rys

Mayor

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

(greg.rickford@pc.ola.org)

The Honourable Bill Walker, Associate Minister of Energy

(bill.walker@pc.ola.org)

Mark Wilson, Sr. Advisor, Municipal & Stakeholder Relations, Enbridge Gas Inc.

(Mark.Wilson@enbridge.com)

Schedule DD6 Enbridge Gas Community Expansion Project Proposal

Caledon	()
---------	---	---

EB-2008-0410

Certificate of Public Convenience and Necessity

The Ontario Energy Board hereby grants

Enbridge Gas Distribution Inc.

Approval under section 8 of the Municipal Franchise Act, R.S.O. 1990, c. M.55, as amended, to construct works to supply gas to the

Town of Caledon

This Certificate of Public Convenience and Necessity cancels Certificates for the former Township of Albion (E.B.C. 47), the former Village of Bolton (E.B.C. 050), the former Township of Caledon (E.B.C. 65), the former Township of Chinguacousy (F.B.C. 3) and the former Village of East Caledon (E.B.C. 67) and replaces them with a single Certificate of Public Convenience and Necessity for the amalgamated Town of Caledon.

Dated at Toronto, March 13, 2009 **Ontario Energy Board**

Original Signed By

Neil McKay Manager, Facilities Applications

Schedule EE Enbridge Gas Community Expansion Project Proposal

Caledon	()
---------	---	---

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

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

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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. 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.

Part II	II – Description of and Sup	port for Project									
3.1	Provide a general overvie	w of the project, whic	h is to include the								
Redacted											
	would serve any on-reserve Indigenous communities; existing population										
	of each community by res										
				asti iai							
	sectors; routing; length of pipeline; and nominal pipe size. Enbridge Gas is proposing to provide service within the Town of Caledon along										
	The proposed facilities will provide access to natural gas to a forecasted 141										
	customers (124 residential, 15 commercial / institutional and 2 industrial).										
	customers (124 residential, 10		i ana z maasman.								
	The proposed project will tie-i	n to the existing system o	n as we	ell as on							
	Pro	posed distribution facilities	s will be installed along	o o.o o							
	between these two tie-ir	points as well as along	from	to							
	between these two tie-ir	and	of								
	The approximate length and s	size of the distribution pipe	elines required:								
			•								
	Pipe Type	Diameter (NPS)	Length (m)								
	Polyethylene	2	7,707								
	Polyethylene	4	15,745								
	-										
	Please refer to Schedule E	E1 for Project Map.									
		,									
3.2	Provide the annual and c	umulative forecast of t	the number of custor	mer							
J.Z	attachments over the ten-										
	commercial/institutional			_							
	Indicate for each custome										
	would be firm or interrupt		i vice to be provided								
	would be inition interrupt	libie.									
	Diagon refer to Cabadula E	E2 Table 2.2									
	Please refer to Schedule E	EZ, Table 3.2.									
2.2	.										
3.3	Provide the annual and cu										
	year rate stability perio	_	mmercial/institution	al and							
	industrial sectors for eac	h community.									
			_	_							
	For the residential segme										
	level is 2,200 m ³ per year.										
	regarding the annual con	sumption for residenti	ial customers in a gi	ven							
	community may use that	value, in which case it	t must explain how it	has							
	determined that it is more										
	Please refer to Schedule E	E2. Table 3.3.									
		,									

3.4	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.
	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.
	Please refer to Schedule EE3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule EE4 for Proposed Construction Schedule.
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.
	Please refer to Schedule EE5.
3.7	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.
	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.
	Please refer to Schedule EE6 for Enbridge's CPCN for the Town of Caledon (EB-2008-0410) which covers the entire area of the proposed project.

Part IV – Cost of Project Confirm that the proposed project includes a ten-year rate stability period. The proposed project does include a ten-year rate stability period. 4.2 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). 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). 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. 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. Please refer to Schedule EE2, Table 4.2. 4.3

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule EE2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$8,620,777
	Please refer to Schedule EE2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$61,140
	Please refer to Schedule EE2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$15.55
	Please refer to Schedule EE2, Table 5.3.

Part \	VI – Distribution Charge						
6.1	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.						
	Provide a confirmation that there would be no material cross- subsidization between rate classes.						
	Please refer to Schedule EE2, Table 6.1.						
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.						

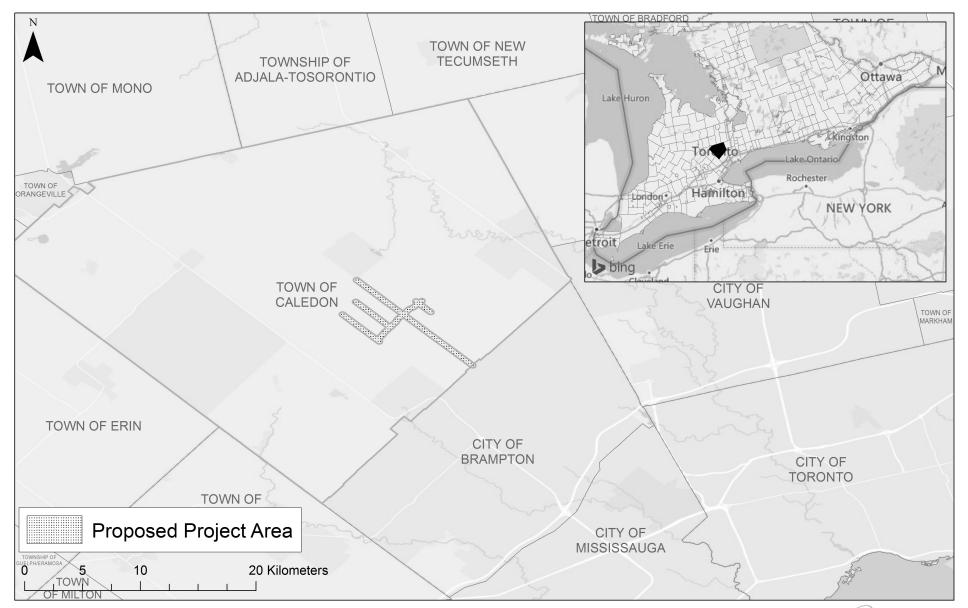
Part \	VII – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.
	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).
	Please refer to Schedule EE2, Table 7.1.
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.
	Please refer to Schedule EE2, Table 7.2.

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). • Leave to Construct
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. Please refer to Schedule EE4.

Schedule EE1 Enbridge Gas Community Expansion Project Proposal

Caledon	(
---------	---

Caledon 3





Schedule EE2 Enbridge Gas Community Expansion Project Proposal

Caledon ((
-----------	---

Community Expansion	Caledon () InService Date: Nov-01-2023												EB-2019-02 Schedule E Redacted	
Table 3.2 - Custome	er Attachments Over The Rate Stability P	Period												
Table 3.2 - Gustome	Customer Type	Firm / IT	Project Year	<u>1</u>	<u>2</u>	<u>3</u>	4	<u>5</u>	<u>6</u>	7	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	Residential	Firm	110,001 1001	33	30	11	<u>4</u> 8	6	8	<u>7</u> 7	8	7	6	124
	Commercial	Firm		-	6	4	1	1	-	-	-	-	-	12
	Institutional	Firm		-	-	-	-	-	-	-	-	-	-	-
	Agricultural	Firm		-	2	1	-	-	-	-	-	-	-	3
	Industrial	Firm		-	2	-	-	-	-	-	-	-	-	2
	Total Customers			<u>33</u>	<u>40</u>	<u>16</u>	<u>9</u>	<u>Z</u>	<u>8</u>	<u>Z</u>	<u>8</u>	<u>Z</u>	<u>6</u>	<u>141</u>
	Cumulative Customers			33	73	89	98	105	113	120	128	135	141	
Table 3.3 - Annual a	and Cumulative Volumes Over The Rate S	Stability Period (m3)												
								Ann	ual Volumes	- m3				
	Customer Type		Project Year	<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			39,600	115,200	164,400	187,200	204,000	220,800	238,800	256,800	274,800	290,400	1,992,000
	Commercial			-	8,500	23,100	30,400	32,800	34,000	34,000	34,000	34,000	34,000	264,800
	Institutional			-	-	-	-	-	-	-	-	-	-	-
	Agricultural			-	10,000	25,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	245,000
	Industrial		_	- 20 600	100,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,700,000
	Total Volumes			<u>39,600</u>	<u>233,700</u>	<u>412,500</u>	<u>447,600</u>	<u>466,800</u>	<u>484,800</u>	<u>502,800</u>	<u>520,800</u>	<u>538,800</u>	<u>554,400</u>	<u>4,201,800</u>
	Customer Time		Droinet Voor	4	2	2	4	_	ative Volume		0	0	40	
	Customer Type Residential		Project Year	20,600	<u>2</u>	210 200	<u>4</u>	<u>5</u>	024 200	<u>7</u>	4 426 900	1 701 600	1 002 000	
	Commercial			39,600	154,800 8,500	319,200 31,600	506,400 62,000	710,400 94,800	931,200 128,800	1,170,000 162,800	1,426,800 196,800	1,701,600 230,800	1,992,000 264,800	
	Institutional			- -	-	-	-	-	120,000	102,000	190,000	230,000	204,000	
	Agricultural			_	10,000	35,000	65,000	95,000	125,000	155,000	185,000	215,000	245,000	
	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		_	<u>39,600</u>	273,300	685,800	<u>1,133,400</u>	1,600,200	2,085,000	<u>2,587,800</u>	3,108,600	3,647,400	4,201,800	
Table 4.2 - Total Cap	pital Costs At End Of The Rate Stability I	Period												
	Total Capital Costs			<u>Year 10</u>										
Table 4.3 - Revenue	Requirement Over The Rate Stability Pe	eriod												
		-												
	Revenue Requirement		Project Year	1	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	7	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	Closing Rate Base (net of proposed Sect	tion 36.2 funding)		<u>Year 10</u>										

Caledon (_____)
InService Date: Nov-01-2023

EB-2019-0255 Schedule EE2 Redacted

573,334

966,414

\$ 1,539,748

78,587 \$

127,512

206,099

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

\$ 8,620,777

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

<u>Year 10</u> 61,140

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

Section 36.2 Funding Amount Per Volume (m3)

<u>Year 10</u> 15.55

6,939

9,108

16,047

30,025

53,751

83,776

51,445

94,875

146,320

58,926

102,948

<u>161,874</u>

62,922

107,364

66,391

111,504

<u>177,895</u>

69,545

115,644

<u>185,189</u>

72,700

119,784

<u>192,484</u>

75,854

123,924

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax
Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

Net Present Value

Project Year

<u>1.00</u>

Community Expansion Caledon (______) InService Date: Nov-01-2023

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue Total Revenue (A)

Expenses:

O&M Expense Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

EB-2019-0255 Schedule EE2 Redacted

Net Present Value

Schedule EE3 Enbridge Gas Community Expansion Project Proposal

Caledon	(
---------	---

Section 3.4 Caledon (______)

Total Forecasted Customers 141 **Penetration Rate** 65%

Existing Fuel / Heating Type	Number of Customers	Current proprtion of customer ¹	Estimated Conversion Cost ²	Estimated Annual Energy Costs (existing fuel)	Estimated Annual Energy Costs (natural gas)		Estimated Annual Savings	GHG per customer	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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	30	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 46,480	7.2	-2.7	212	(79)
Electricity F/A	13	9%			\$ 1,481						50
Electricity Baseboard	17	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 11,953	0.6	3.9	10	66
Propane	62	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 17,578	5.6	-1.1	. 347	(68)
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				
Total	141	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 84,976	13.9	4.1	576	(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 l	Jnits						
Natural Gas	1863 g/m3	0.037 g/m3	0.035 g/m3	0.001874355 t	onnes/m3						
Heating Oil	2725 g/L	0.006 g/L	0.031 g/L	0.002734388 t	onnes/L						
Propane	1510 g/L	0.024 g/L	0.108 g/L	0.001542784 t	onnes/L						
Electricity	30 g/kWh	-	-	0.00003 t	onnes/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 Equivale		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 montly average EDPRO residential rates for Zone 4 (March 2020)

Carbon price is included for all energy types as reported. All costs exclude $\ensuremath{\mathsf{HST}}.$

Schedule EE4 Enbridge Gas Community Expansion Project Proposal

Caledon	(
---------	---

Caledon (______) Community Expansion Project Pipeline Construction Schedule

Tack Nama		2022					2023										2024																				
Task Name	Jan	Feb	Ma	ır Ap	or M	ay Ju	ın J	ul A	Aug S	ep C	Oct N	Nov	Dec	Jan I	eb N	Mar .	Apr I	Иау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																					
Permits & Approvals																																					
Leave to Construct Application and Approval																			•																		
Pre-Construction, Construction and Testing																																					
In Service																																					

Schedule EE5 Enbridge Gas Community Expansion Project Proposal

Caledon ()
-----------	---



Allan Thompson Mayor

EB-2019-0255 Schedule EE5 Redacted

Sent via E-Mail: webmaster-corp@enbridge.com

May 1, 2020

Al Monaco, President and Chief Executive Officer Enbridge Inc. Suite 3000 425 1st Street South-West Calgary, Alberta T2P 3L8

RE: EXPRESSION OF SUPPORT FOR NATURAL GAS EXPANSION SUPPORT PROGRAM FOR TOWN OF CALEDON

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.

The Town of Caledon is one such area, and we are eager to bring this affordable, reliable fuel source to our residents and businesses.

On April 28, 2020, Caledon Council adopted a resolution formally expressing interest to have the three underserviced areas of included on Enbridge Gas' list of projects being proposed to the Ontario Energy Board (OEB).

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.

For more information regarding this matter, please contact the undersigned.

Thank you for your attention to this matter.



Allan Thompson Mayor

Sincerely,

Allan Thompson

au rys

Mayor

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

(greg.rickford@pc.ola.org)

The Honourable Bill Walker, Associate Minister of Energy

(bill.walker@pc.ola.org)

Mark Wilson, Sr. Advisor, Municipal & Stakeholder Relations, Enbridge Gas Inc.

(Mark.Wilson@enbridge.com)

Schedule EE6 Enbridge Gas Community Expansion Project Proposal

Caledon	(
---------	---

EB-2008-0410

Certificate of Public Convenience and Necessity

The Ontario Energy Board hereby grants

Enbridge Gas Distribution Inc.

Approval under section 8 of the Municipal Franchise Act, R.S.O. 1990, c. M.55, as amended, to construct works to supply gas to the

Town of Caledon

This Certificate of Public Convenience and Necessity cancels Certificates for the former Township of Albion (E.B.C. 47), the former Village of Bolton (E.B.C. 050), the former Township of Caledon (E.B.C. 65), the former Township of Chinguacousy (F.B.C. 3) and the former Village of East Caledon (E.B.C. 67) and replaces them with a single Certificate of Public Convenience and Necessity for the amalgamated Town of Caledon.

Dated at Toronto, March 13, 2009 **Ontario Energy Board**

Original Signed By

Neil McKay Manager, Facilities Applications

Schedule FF Enbridge Gas Community Expansion Project Proposal

Carlsbad Springs

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

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

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
	IV/A
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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.
	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.
	N/A

Part II	I – Description of and Sup	port for Project		
3.1 Redacted	Provide a general overvie following: communities to			oiect
	would serve any on-reser			
	of each community by res			
	sectors; routing; length o			
	Enbridge Gas is proposing to			
	Ottawa. The proposed facilities			sted 444
	customers (401 residential, 31	commercial / institution	nal and 12 industrial).	
	The nearest existing gas infra	etructure is on the corn	or of and	
	pressure for the distribution of			
	area. The proposed supply lir			
	proposed station location alor	ng 1	to, _	along
	to , and along	, from _	along	
	, and along	to	off	·
	The proposed distribution sys	tom will provide access	to notural ago to queton	nore elena
		•	•	•
			,	,) and
	(0	f up	to).	
	The approximate length and s	size of the distribution pi	pelines required:	
	Pipe Type	Diameter (NPS)	Length (m)	1
	Polyethylene	2	24,342	1
	Polyethylene	4	12,709	1
			,	_
	Please refer to Schedule Fl	F1 for Project Map.		
3.2	Provide the annual and co			omer
	attachments over the ten-			
	commercial/institutional			
	Indicate for each custome	7 .	service to be provide	ed
	would be firm or interrupt	tible.		
		-		
	Please refer to Schedule Fl	⊦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 FF2, Table 3.3.
3.4	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. 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. Please refer to Schedule FF3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule FF4 for Proposed Construction Schedule.
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.
	Please refer to Schedule FF5.

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.

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.

Enbridge Gas holds various Certificates of Public Convenience and Necessity related to specific areas within the City of Ottawa. Please refer to Schedule FF6 for Enbridge's CPCN (FBC 196) that covers all of the former Township of Cumberland within which Carlsbad Springs is located.

Part IV – Cost of Project

4.1 Confirm that the proposed project includes a ten-year rate stability period.

The proposed project does include a ten-year rate stability period.

4.2 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).

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).

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.

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.

Please refer to Schedule FF2, Table 4.2.

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule FF2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$10,725,127
	Please refer to Schedule FF2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$24,156
	Please refer to Schedule FF2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$4.67
	Please refer to Schedule FF2, Table 5.3.

Part VI – Distribution Charge

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.

Provide a confirmation that there would be no material crosssubsidization between rate classes.

Please refer to Schedule FF2, Table 6.1.

Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part VII - Profitability Index / Benefit to Cost Ratio

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.

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).

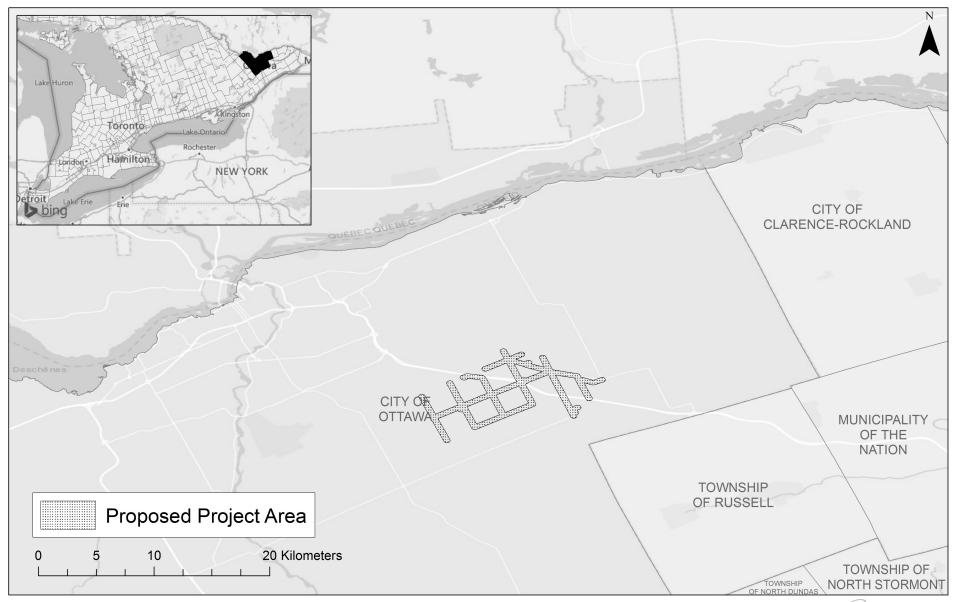
Please refer to Schedule FF2, Table 7.1.

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.

Please refer to Schedule FF2, Table 7.2.

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). • Leave to Construct
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. Please refer to Schedule FF4.

Schedule FF1 Enbridge Gas Community Expansion Project Proposal





Schedule FF2 Enbridge Gas Community Expansion Project Proposal

Community Expansion	Carlsbad Springs InService Date: Nov-01-2023	Firm / IT Firm Firm Firm Firm Firm Firm Firm										EB-2019-02 Schedule F Redacted		
Table 3.2 - Custome	er Attachments Over The Rate Stability Period Customer Type Residential Commercial Institutional Agricultural Industrial Total Customers Cumulative Customers	Firm Firm Firm Firm	Project Year	1 108 - - - - 108	2 96 13 1 2 4 116	36 5 - 1 2 44 268	26 3 - 1 30 298	5 20 2 - - 1 23 321	6 25 1 - - 1 27 348	7 22 1 - 1 24 372	25 1 - 1 27 399	9 22 1 - - 1 24 423	10 21 - - - 21 444	Total 401 27 1 3 12 444
Table 3.3 - Annual a	and Cumulative Volumes Over The Rate Stabili	ty Period (m3)												
	Customer Type Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	1 129,600 - - - - 129,600	2 374,400 23,300 25,000 6,200 200,000 <u>628,900</u>	532,800 55,200 50,000 17,400 500,000 1,155,400	607,200 68,700 50,000 22,400 650,000 1.398,300	Ann <u>5</u> 662,400 76,000 50,000 22,400 750,000 <u>1,560,800</u>	716,400 79,600 50,000 22,400 850,000 1,718,400	772,800 82,000 50,000 22,400 950,000 1,877,200	829,200 84,400 50,000 22,400 1,050,000 2,036,000	885,600 86,800 50,000 22,400 1,150,000 2,194,800	937,200 88,000 50,000 22,400 1,200,000 2,297,600	Total 6,447,600 644,000 425,000 180,400 7,300,000 14,997,000
	Customer Type Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	1 129,600 - - - - - 129,600	2 504,000 23,300 25,000 6,200 200,000 758,500	3 1,036,800 78,500 75,000 23,600 700,000 1,913,900	4 1,644,000 147,200 125,000 46,000 1,350,000 3,312,200	Cumu <u>5</u> 2,306,400 223,200 175,000 68,400 2,100,000 <u>4,873,000</u>	3,022,800 302,800 225,000 90,800 2,950,000 6,591,400	28 - m3 7 3,795,600 384,800 275,000 113,200 3,900,000 8,468,600	4,624,800 469,200 325,000 135,600 4,950,000 10,504,600	5,510,400 556,000 375,000 158,000 6,100,000 12,699,400	10 6,447,600 644,000 425,000 180,400 7,300,000 14,997,000	
Table 4.2 - Total Ca	pital Costs At End Of The Rate Stability Period Total Capital Costs			<u>Year 10</u>										
Table 4.3 - Revenue	e Requirement Over The Rate Stability Period		_											
	Revenue Requirement		Project Year	1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	9	<u>10</u>	<u>Total</u>
	Closing Rate Base (net of proposed Section 36.	.2 funding)		<u>Year 10</u>										

Community Expansion

Carlsbad Springs

InService Date: Nov-01-2023

EB-2019-0255 Schedule FF2 Redacted

262,329 \$ 1,773,679

790,777 \$ 5,222,989

3,449,310

528,448

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

\$ 10,725,127

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

<u>Year 10</u> 24,156

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

Section 36.2 Funding Amount Per Volume (m3)

<u>Year 10</u> 4.67

22,709

29,808

52,517

86,018

144,647

230,665

142,824

265,742

168,695

321,609

490,304

186,147

358,984

<u>545,131</u>

202,247

395,232

<u>597,479</u>

218,242

431,756

649,998

234,236

468,280

<u>702,516</u>

250,231

504,804

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)





Project Year





<u>1.00</u>

InService Date: Nov-01-2023

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

Cash Inflow Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A) Expenses: O&M Expense Municipal Tax

Net Present Value

Total Cash Inflow (C = A + B)

Cash Outflow **Gross Capital**

Income Tax Total Expenses (B)

Change in Working Capital Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

EB-2019-0255 Schedule FF2 Redacted

Schedule FF3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Carlsbad Springs

Total Forecasted Customers 444 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		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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	93	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 146,363	7.2	-2.7	669	(249)
Electricity F/A	40	9%								23	
Electricity Baseboard	53	12%	,								209
Propane	195	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 55,351	5.6	-1.1	1,092	(213)
Wood	40	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	. N/A	N/A
Other	22	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	444	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 267,584	13.9	4.1	1,815	(97)

1 Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specially, 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.

		Er	nission 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)

	Ra	ate 1 (Community Expansion	, Non-FN)							
	Consumption Equivale	ent		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 montly average EDPRO residential rates for Zone 4 (March 2020)

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

Schedule FF4 Enbridge Gas Community Expansion Project Proposal

Carlsbad Springs Community Expansion Project Pipeline Construction Schedule

Task Name						202	22		2023										2024																
Task Ivallie		Feb	Mai	r Apr	May	Jun	Jul	Aug	Sep (Oct N	Nov De	ec Ja	ın Fek	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																			
Permits & Approvals																																			
Leave to Construct Application and Approval																																			
Pre-Construction, Construction and Testing												Ī																							
In Service																																			

Schedule FF5 Enbridge Gas Community Expansion Project Proposal





Office of the Mayor City of Ottawa

110 Laurier Avenue West Ottawa, Ontario K1P 1J1 Tel.: (613) 580-2496 Fax: (613) 580-2509

E-mail: Jim.Watson@ottawa.ca

Bureau du maire Ville d'Ottawa

110, avenue Laurier Ouest Ottawa (Ontario) K1P 1J1 Tél.: (613) 580-2496 Téléc.: (613) 580-2509

Courriel: Jim.Watson@ottawa.ca

March 27, 2020

Mr. Ian Ross Director - Eastern Region Operations Enbridge Gas Inc. 400 Coventry Road Ottawa, ON K1K 2C7

Dear Mr. Ross

Subject: Ottawa's Expression of Support for natural gas expansion in support of rural residents and businesses

Thank you for your letter dated February 11, which provided an update on the Government of Ontario's 2020 Natural Gas Expansion Program. The City is pleased that additional funding is available for new service expansion projects in areas that would not be feasible without this support. The City of Ottawa is interested in participating in the call for proposals, which will be submitted by Enbridge Gas. With your support, we would like to put forward the following rural projects for funding:

- 1. Dunrobin Shores (residential stream; Ward 5)
- 2. Carlsbad Springs, Sarsfield and surroundings (residential stream; Ward 19)
- 3. (economic development stream; Ward 20)

Based on the guidelines issued by the Ontario Energy Board (EB-2019-0255), we are aware that Enbridge Gas may be required to include support for the proposed projects from Council, as applicable, demonstrated through a written expression of support or a commitment to financial support in its project submissions. We look forward to engaging with you on next steps, as required, to secure this formal support from Ottawa's City Council.

We understand that natural gas is the most common and affordable heating fuel in Ontario. We fully support the efforts of Enbridge Gas, the OEB and the Ministry of Energy, Northern Development and Mines to bring this service to underserved rural communities. We look forward to working together to expand natural gas access in order to attract new opportunities, help create jobs and lower monthly costs for our residents living in Ottawa's rural communities.

I look forward to engaging further with you on this initiative to support greater access of natural gas for our residents and businesses in underserved communities.

Sincerely,

Jim Watson Mayor

City of Ottawa

c.c.: Councillor Eli El-Chantiry, Ward 5
Councillor George Darouze, Ward 20
Steve Willis, GM, Planning, Infrastructure and Economic Development
Geraldine Wildman, Program Manager, Natural Systems & Rural Affairs
Sonia Fazari, Senior Advisor, Eastern Region, Enbridge Gas

Schedule FF6 Enbridge Gas Community Expansion Project Proposal

F.B.C. 196

IN THE MATTER OF The Municipal Pranchises Act, R. S. O. 1950 Chapter 249 and amendments thereto; EB-2019-0255 Schedule FF6

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 Cumberland in the County of Prescott and Russell

BEFORE

A. R. Crosier, Chairman

) Friday, the 31st day

W. R. Howard, Commissioner

of Jamuary, 1958.

CERTIFICATE OF MUBLIC CONVENTENCE AND MECHASIAY

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 31st day of January, 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 DOTH 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 Cumberland and for the construction of the works necessary therefor.

2. The Board fixes the costs of this Application at \$5.00 payable fortherith by the Applicant.

DATED at Toronto this 11th day of February 1958.

ONTARIO FUEL BOARD

Maner.

Commissioner

Schedule GG Enbridge Gas Community Expansion Project Proposal

Cedar Valley

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

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

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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. 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.

Part III – Description of and Support for Project Provide a general overview of the project, which is to include the Redacted 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 serve the community of Cedar Valley in the Town of Erin. The proposed facilities will provide access to natural gas to a forecasted 54 customers (53 residential and 1 commercial / institutional). The proposed project will tie-in to the existing distribution system in the community of Hillsburgh on and Facilities head along to the distribution system within Cedar Valley. The approximate length and size of the distribution pipelines required: Pipe Type Diameter (NPS) Length (m) Polyethylene 2 1,800 Polyethylene 4 2,950 Please refer to Schedule GG1 for Project Map. Provide the annual and cumulative forecast of the number of customer 3.2 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 GG2, Table 3.2. 3.3 Provide the annual and cumulative forecast of volumes (in m³) over the tenyear 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 GG2, Table 3.3.

3.4	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.
	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.
	Please refer to Schedule GG3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule GG4 for Proposed Construction Schedule.
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.
	Please refer to Schedule GG5.
3.7	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.
	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.
	Please refer to Schedule GG6 for Enbridge's CPCN for the Town of Erin (EB-2004-0482) which covers the entire area of the proposed project.

Part IV – Cost of Project Confirm that the proposed project includes a ten-year rate stability period. The proposed project does include a ten-year rate stability period. 4.2 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). 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). 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. 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. Please refer to Schedule GG2, Table 4.2. 4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total			
Revenue Requirement							

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule GG2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$2,132,768
	Please refer to Schedule GG2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$39,496
	Please refer to Schedule GG2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$16.93
	Please refer to Schedule GG2, Table 5.3.

Part '	VI – Distribution Charge					
6.1	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.					
	Provide a confirmation that there would be no material cross- subsidization between rate classes.					
	Please refer to Schedule GG2, Table 6.1.					
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.					

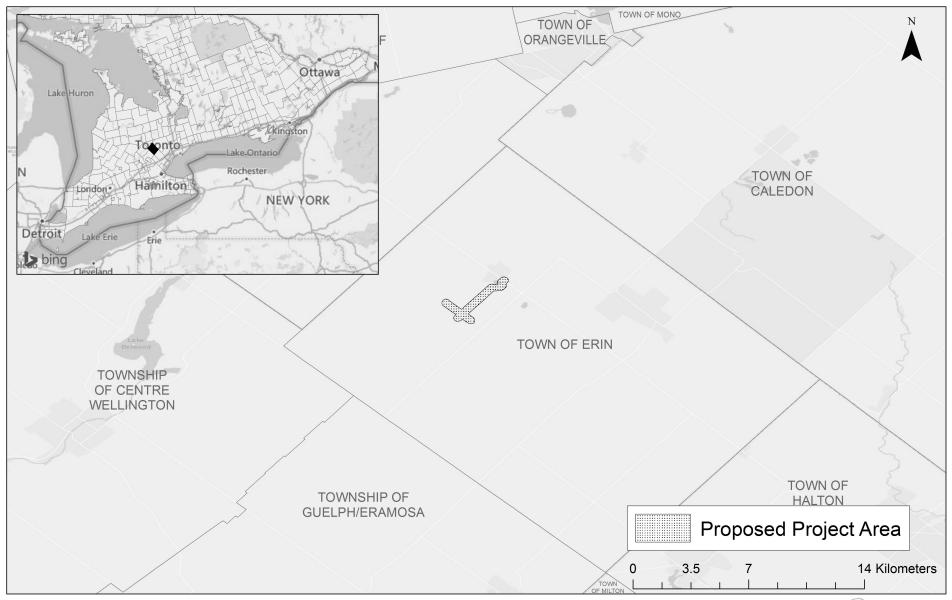
Part \	/II – Profitability Index / Benefit to Cost Ratio					
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support. 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).					
	Please refer to Schedule GG2, Table 7.1.					
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.					
	Please refer to Schedule GG2, Table 7.2.					

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). • Leave to Construct
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.
	Please refer to Schedule GG4.

Schedule GG1 Enbridge Gas Community Expansion Project Proposal

Cedar Valley

Cedar Valley, Town of Erin





Schedule GG2 Enbridge Gas Community Expansion Project Proposal

Cedar Valley

community Expansion	Cedar Valley (Town of Erin) InService Date: Nov-01-2023												EB-2019-025 Schedule GG Redacted	
Table 3.2 - Custome	er Attachments Over The Rate Stability Perio													
	Customer Type	Firm / IT	Project Year	<u>1</u>	2 13	<u>3</u>	<u>4</u> 3	<u>5</u>	<u>6</u>	<u>7</u> 3	<u>8</u>	<u>9</u>	<u>10</u> 3	Total 53
	Residential	Firm		14		5		3	3		3	3		
	Commercial Institutional	Firm Firm		-	-	-	-	-	-	-	-	-	-	-
	Agricultural	Firm		-	1	-	-	-	-	_	-	-	-	1
	Industrial	Firm		-	-	_	-	_	_	_	_	_	-	-
	Total Customers		_	<u>14</u>	<u>14</u>	<u>5</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>54</u>
	Cumulative Customers			14	28	33	36	39	42	45	48	51	54	
Table 3.3 - Annual a	and Cumulative Volumes Over The Rate Stab	oility Period (m3)												
								Annu	al Volumes - 1	m3				
	Customer Type		Project Year	<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			16,800	49,200	70,800	80,400	87,600	94,800	102,000	109,200	116,400	123,600	850,800
	Commercial			-	-	-	-	-	-	-	-	-	-	-
	Institutional			-	-	-	-	-	-	-	-	-	-	-
	Agricultural			-	1,200	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	20,400
	Industrial Total Volumes			16 900	- 50 400	73,200	92 900		- 07 200	104 400	111 600	<u>118,800</u>	126 000	971 200
	Total volumes			<u>16,800</u>	<u>50,400</u>	<u>73,200</u>	<u>82,800</u>	<u>90,000</u>	<u>97,200</u>	<u>104,400</u>	<u>111,600</u>	116,800	<u>126,000</u>	<u>871,200</u>
						_			tive Volumes					
	Customer Type		Project Year	1	<u>2</u>	<u>3</u>	4	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	9	<u>10</u>	
	Residential			16,800	66,000	136,800	217,200	304,800	399,600	501,600	610,800	727,200	850,800	
	Commercial			-	-	-	-	-	-	-	-	-	-	
	Institutional Agricultural			-	- 1,200	3,600	6,000	9 400	- 10,800	- 13,200	- 15,600	- 18,000	- 20,400	
	Industrial			-	1,200	3,000	-	8,400	10,000	13,200	15,600	10,000	20,400	
	Total Volumes			<u>16,800</u>	<u>67,200</u>	140,400	223,200	<u>313,200</u>	410,400	<u>514,800</u>	<u>626,400</u>	745,200	<u>871,200</u>	
Table 4.2 - Total Ca	pital Costs At End Of The Rate Stability Peri	od		<u>Year 10</u>										
	Total Capital Costs			<u>Teal 10</u>										
Table 4.3 - Revenue	e Requirement Over The Rate Stability Period	i												
			Project Year	1	2	2	4	5	6	7	Q	۵	<u>10</u>	<u>Total</u>
	Revenue Requirement		<u> </u>	<u>-</u>	<u> </u>	<u>2</u>		<u>2</u>	<u> </u>	<u>-</u>	<u>u</u>	<u>2</u>	<u>10</u>	Total
			_	<u>Year 10</u>										
	Closing Rate Base (net of proposed Section 3	36.2 funding)												

Community Expansion Cedar Valley (Town of Erin) InService Date: Nov-01-2023

EB-2019-0255 Schedule GG2 Redacted

22,710 \$ 158,022

200,376

358,398

28,980

51,690

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

\$ 2,132,768

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

<u>Year 10</u> 39,496

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

Section 36.2 Funding Amount Per Volume (m3)

Year 10 16.93

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

6,808 20,739

2,944

3,864

9,147

11,592

13,458

16,836

<u>30,294</u>

15,140

19,044

<u>34,184</u>

16,401

20,700

<u>37,101</u>

17,663

22,356

<u>40,019</u>

18,925

24,012

<u>42,937</u>

20,186

25,668

<u>45,854</u>

21,448

27,324

<u>48,772</u>

Net Present Value

Project Year

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

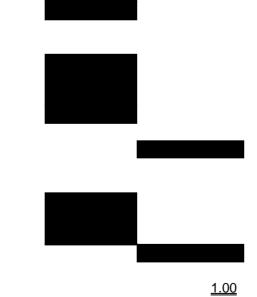
Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)



Community Expansion Cedar Valley (Town of Erin) InService Date: Nov-01-2023

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

Net Present Value







Redacted

EB-2019-0255 Schedule GG2

Schedule GG3 Enbridge Gas Community Expansion Project Proposal

Cedar Valley

Section 3.4 Cedar Valley (Town of Erin)

Total Forecasted Customers 54 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		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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	11	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 17,801	7.2	-2.7	81	(30)
Electricity F/A	5	9%									19
Electricity Baseboard	6	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 4,578	0.6	3.9	4	25
Propane	24	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 6,732	5.6	-1.1	133	(26)
Wood	5	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	3	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	54	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 32,544	13.9	4.1	221	(12)

1 Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specially, 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 Equivale		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 montly average EDPRO residential rates for Zone 4 (March 2020)

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

Schedule GG4 Enbridge Gas Community Expansion Project Proposal

Cedar Valley

Cedar Valley Community Expansion Project Pipeline Construction Schedule

Tools Nove o						20	22						2023						2024																
Task Name	Jan	Feb	Ma	r Apr	r May	Jun	Jul	Aug	Sep (Oct N	Nov De	c Jan	Feb	Mar	Apr N	Иау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																			
Permits & Approvals																																			
Leave to Construct Application and Approval																																			
Pre-Construction, Construction and Testing																																			
In Service																																			

Schedule GG5 Enbridge Gas Community Expansion Project Proposal

Cedar Valley

Town of Erin

5684 Trafalgar Rd. Hillsburgh, Ontario N0B 1Z0 www.erin.ca



Office of the Mayor

Tel: (519) 855-4407, Ext.232 Fax: (519) 855-4821 E-mail: <u>Allan.Alls@erin.ca</u>

April 21, 2020

Enbridge Gas Inc. 6 Colony Court Brampton, ON L6T 4E4

Dear Mr. Balkanci,

Re: Expression of Support for Natural Gas Expansion to Town of Erin/ Cedar Valley Natural Gas Expansion Project

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. The Natural Gas Expansion Program will unlock financial support needed to expand natural gas service to new areas across Ontario. The Town of Erin is eager to bring this affordable, reliable fuel source to the hamlet of Cedar Valley to better service the residents of Erin.

On behalf of the Town of Erin, I would like to formally express our interest to have the Cedar Valley Natural Gas Expansion Project included on Enbridge Gas' list of projects being proposed to the Ontario Energy Board for consideration for financial support through the Natural Gas Expansion Program.

Based on the draft Guidelines issued by the OEB (ED-2019-0255), we are aware that Enbridge Gas Inc. may be required to 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 to our community to attract new opportunities, help create jobs and lower monthly costs for our residents.

Sincerely,

Allan Alls Mayor

Town of Erin

Schedule GG6 Enbridge Gas Community Expansion Project Proposal

Cedar Valley

Certificate of Public Convenience and Necessity

The Ontario Energy Board hereby grants

Enbridge Gas Distribution Inc.

approval under section 8 of the *Municipal Franchises Act*, R.S.O. 1990, c. M.55, as amended, to construct works to supply gas to the

Town of Erin

This certificate replaces the certificates of the former municipalities that are now within the Town of Erin.

Dated at Toronto, February 10, 2005.

ONTARIØ ENERGY BOARD

Peter H. O'Dell

Assistant Board Secretary

Schedule HH Enbridge Gas Community Expansion Project Proposal

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

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

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
	IV/A
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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.
	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.
	N/A

Part II	I – Description of and Sup	port for Project	
3.1 Redacted		o be connected, includ rve Indigenous commu sidential, commercial/	ding whether the project unities; existing population institutional and industrial
		Dack. The proposed facilit	ervices in additional areas in the ties will provide access to natural 13 commercial / institutional).
	The	oolyethylene pipeline in the proposed project will inclu Charlton and Dack. There	e Town of Englehart of ude, will be no reinforcement required
	The approximate length and	size of the distribution pipe	elines required:
	Pipe Type Polyethylene	Diameter (NPS)	Length (m) 10,556
	The approximate length and	size of the supply laterals	required:
	Pipe Type	Diameter (NPS)	Length (m)
	Polyethylene	4	6,730
3.2	Please refer to Schedule H Provide the annual and c attachments over the ten commercial/institutional Indicate for each custom would be firm or interrup	umulative forecast of the control of	iod by residential, for each community.
	Please refer to Schedule H	IH2, 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 HH2, Table 3.3.
3.4	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.
	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.
	Please refer to Schedule HH3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule HH4 for Proposed Construction Schedule.
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.
	Please refer to Schedule HH5.

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.

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.

Please refer to Schedule HH6 for Enbridge's CPCN for the Municipality of Charlton and Dack (RB-2004-0212 / EB-2004-0430) which covers the entire area of the proposed project.

Part IV – Cost of Project

4.1 Confirm that the proposed project includes a ten-year rate stability period.

The proposed project does include a ten-year rate stability period.

4.2 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).

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).

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.

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.

Please refer to Schedule HH2, Table 4.2.

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule HH2, Table 4.3.

Part \	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$8,626,988
	Please refer to Schedule HH2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$83,757
	Please refer to Schedule HH2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$33.82
	Please refer to Schedule HH2, Table 5.3.

Part VI – Distribution Charge

6.1 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.

Provide a confirmation that there would be no material crosssubsidization between rate classes.

Please refer to Schedule HH2. Table 6.1.

Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part VII – Profitability Index / Benefit to Cost Ratio

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.

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).

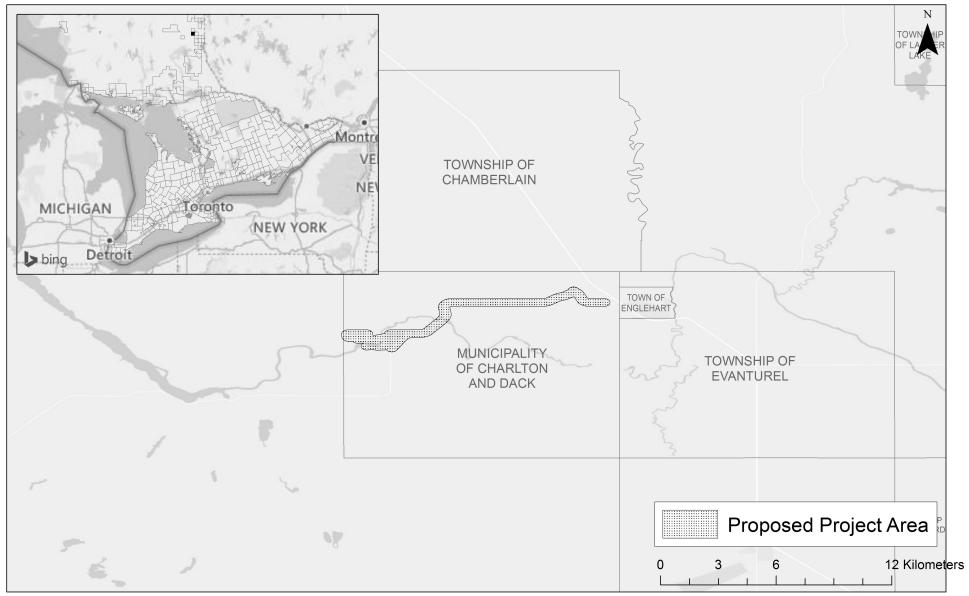
Please refer to Schedule HH2, Table 7.1.

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.

Please refer to Schedule HH2, Table 7.2.

Schedule HH1 Enbridge Gas Community Expansion Project Proposal

Charlton & Dack





Schedule HH2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Charlton and Dack

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period

Customer TypeFirm / ITResidentialFirmCommercialFirmInstitutionalFirmAgriculturalFirmIndustrialFirmTotal CustomersFirm

Cumulative Customers

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

Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

Total Capital Costs

Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule HH2 Redacted

Project Year	<u>1</u> 27	2 20	<u>3</u> 14	<u>4</u>	<u>5</u>	<u>6</u> 3	<u>7</u> 3	<u>8</u> 3	<u>9</u>	<u>10</u>	<u>Total</u>
	27		14	7	7	3	3	3	3	3	90
	-	7	2	1	1	-	-	-	-	-	11
	-	-	-	-	-	-	-	-	-	-	-
	-	2	-	-	-	-	-	-	-	-	2
_			-	<u> </u>	-	-					
	<u>27</u>	<u>29</u>	<u>16</u>	<u>8</u>	<u>8</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>103</u>
	27	56	72	80	88	91	94	97	100	103	
					Annual V	olumes - m3					
Project Year	<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>
	29,700	81,400	118,800	141,900	157,300	168,300	174,900	181,500	188,100	194,700	1,436,600
	-	14,400	32,400	37,100	39,300	40,400	40,400	40,400	40,400	40,400	325,200
	-	-	-	-	-	-	-	-	-	-	-
	-	10,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	170,000
<u>_</u>	-	-	-	-	-	-	-	-	-	-	-
	<u>29,700</u>	<u>105,800</u>	<u>171,200</u>	<u>199,000</u>	<u>216,600</u>	<u>228,700</u>	<u>235,300</u>	<u>241,900</u>	<u>248,500</u>	<u>255,100</u>	<u>1,931,800</u>
					Cumulative	Volumes - m	3				
Project Year	1	<u>2</u>	<u>3</u>	4	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	
1101001 100.	29,700	111,100	229,900	371,800	529,100	697,400	872,300	1,053,800	1,241,900	1,436,600	
	-	14,400	46,800	83,900	123,200	163,600	204,000	244,400	284,800	325,200	
	_		-	-	-	-	-		-	-	
	_	10,000	30,000	50,000	70,000	90,000	110,000	130,000	150,000	170,000	
	_	-	-	-	-	-	-	-	-	-	
-	<u>29,700</u>	<u>135,500</u>	<u>306,700</u>	<u>505,700</u>	<u>722,300</u>	951,000	1,186,300	1,428,200	1,676,700	<u>1,931,800</u>	







Community Expansion Charlton and Dack

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue

SES Revenue

Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

EB-2019-0255 Schedule HH2 Redacted

\$ 8,626,988

<u>Year 10</u>

83,757

Year 10 33.82

Project Year 6,255 20,484 37,973 41,679 44,228 45,618 49,788 \$ 373,718 32,289 47,008 48,398 6,831 24,334 39,376 45,770 49,818 52,601 54,119 55,637 57,155 58,673 444,314 13,086 44,818 71,665 83,743 91,497 96,829 99,737 102,645 105,553 <u>108,461</u> \$ 818,032

Net Present Value







<u>1.00</u>

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

Net Present Value





Page 3 of 3

EB-2019-0255 Schedule HH2 Redacted

Schedule HH3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Charlton and Dack

Total Forecasted Customers 103 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	GHG per customer		Estimated Annual GHG - Total Community - Existing	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	22	21%	\$ 5,000	\$ 2,787	\$ 1,495	\$ 1,292	\$ 27,948	6.6	-2.4	. 142	(53)
Electricity F/A	9	9%	\$ 5,000	\$ 1,998	\$ 1,495	\$ 503	\$ 4,662	0.5	3.6	5	33
Electricity Baseboard	12	12%	\$ 12,000	\$ 1,998	\$ 1,495	\$ 503	\$ 6,215	0.5	3.6	7	44
Propane	45	44%	\$ 600	\$ 1,611	\$ 1,495	\$ 116	\$ 5,269	5.1	-1.0	231	(44)
Wood	9	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	5	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	103	100%	\$ 31,100	\$ 8,395	\$ 5,981	\$ 2,414	\$ 44,094	12.7	3.8	385	(19)

1 Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specially, 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 01 (Community Expansion, Non-FN)								
	Consumption Equivale	ent		Price per Uni	t			
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.680			
Heating oil	L	2397	Heating oil	\$/L	1.163			
Electricity	kWh	17778	Electricity	\$/kWh	0.112			
Propane	L	3309	Propane	\$/L	0.487			

Notes:

Gas prices correspond to EGI (Union Gas North East) 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 are currently unavailable for the Union North Rate zones.

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

Schedule HH4 Enbridge Gas Community Expansion Project Proposal

Charlton and Dack Community Expansion Project Pipeline Construction Schedule

Task Name		2022					2023								2024																				
		Feb	Ma	ır Ap	r Ma	y Jun	Jul	Aug	Sep	Oct	Nov [Эес	Jan F	eb Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																			
Permits & Approvals																																			
Leave to Construct Application and Approval																																			
Pre-Construction, Construction and Testing																																			
In Service																																			

Schedule HH5 Enbridge Gas Community Expansion Project Proposal



MUNICIPALITY OF CHARLTON AND DACK

Resolution of Council

MOVED BY:

Jim Huff

MOTION NO: 20

SECONDED BY:

Clem Yantha

DATE: April 6th, 2020

THAT the Council for the Municipality of Charlton and Dack support the submission of an Expression of Interest to the Natural Gas Expansion Support Program.

Certified to be a true copy from the Corporation of the Municipality of Charlton and Dack, passed in Council on the day of April , 2020.

Dan Thibeault, Clerk Treasurer CAO Municipality of Charlton and Dack

J	CARRIED
	DEFEATED
	DEFERRED

Signature of Presiding Officer:

for Debbie Veerman Deputs Reeve

DIVISION VOTE

Position	Name	Yeas	Nays
Councillor	Sandra Parkin	· · · · · · · · · · · · · · · · · · ·	
Councillor	Jim Huff		
Deputy Reeve	Debbie Veerman		
Councillor	Clem Yantha	3 3 92	
Reeve	Merrill Bond		

DECLARATION OF CONFLICT OF INTEREST

Schedule HH6 Enbridge Gas Community Expansion Project Proposal

Certificate of Public Convenience and Necessity

The Ontario Energy Board hereby grants

Union Gas Limited

approval under section 8 of the *Municipal Franchises Act*, R.S.O. 1990, c. M-55, as amended, to construct works to supply gas to the

Municipality of Charlton and Dack.

This certificate replaces the certificate of the former municipality that is now within the Municipality of Charlton and Dack.

Dated at Toronto, November 16, 2004

Ontario Energy Board

Peter H. O'Dell Assistant Board Secretary

Schedule II Enbridge Gas Community Expansion Project Proposal

Chute-à-Blondeau

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

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

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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. 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.

Part III – Description of and Support for Project Provide a general overview of the project, which is to include the Redacted 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 is proposing to serve the community of Chute-à-Blondeau in the Township of East Hawkesbury. The proposed facilities will provide access to natural gas to a forecasted 318 customers (299 residential, 16 commercial / institutional and 3 industrial). The proposed project will tie-in to an existing NPS 4 polyethylene pipeline system the Town of Hawkesbury on _____ at ____. Th proposed supply line runs ____ along ____ to Chute-à-Blondeau and includes customers along _____ and ____ The approximate length and size of the distribution pipelines required: Pipe Type Diameter (NPS) Length (m) Polyethylene 3,175 1 1/4 Polyethylene 2 3,410 Polyethylene 9,000 Please refer to Schedule II1 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 II2, Table 3.2. 3.3 Provide the annual and cumulative forecast of volumes (in m³) over the tenyear 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 II2, Table 3.3.

3.4	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. 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. Please refer to Schedule II3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule II4 for Proposed Construction Schedule.
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.
	Please refer to Schedule II5.
3.7	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.
	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.
	Enbridge Gas does not currently have a franchise agreement with nor a Certificate of Public Convenience and Necessity for the Township of East Hawkesbury. Enbridge Gas does have franchise agreements and CPCNs for adjacent municipalities including the Town of Hawkesbury and the Township of Champlain.

Part IV – Cost of Project

4.1 Confirm that the proposed project includes a ten-year rate stability period.

The proposed project does include a ten-year rate stability period.

4.2 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).

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).

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.

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.

Please refer to Schedule II2, Table 4.2.

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule II2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$4,446,983
	Please refer to Schedule II2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$13,984
	Please refer to Schedule II2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$4.20
	Please refer to Schedule II2, Table 5.3.

Part VI – Distribution Charge

6.1 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.

Provide a confirmation that there would be no material crosssubsidization between rate classes.

Please refer to Schedule II2, Table 6.1.

Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

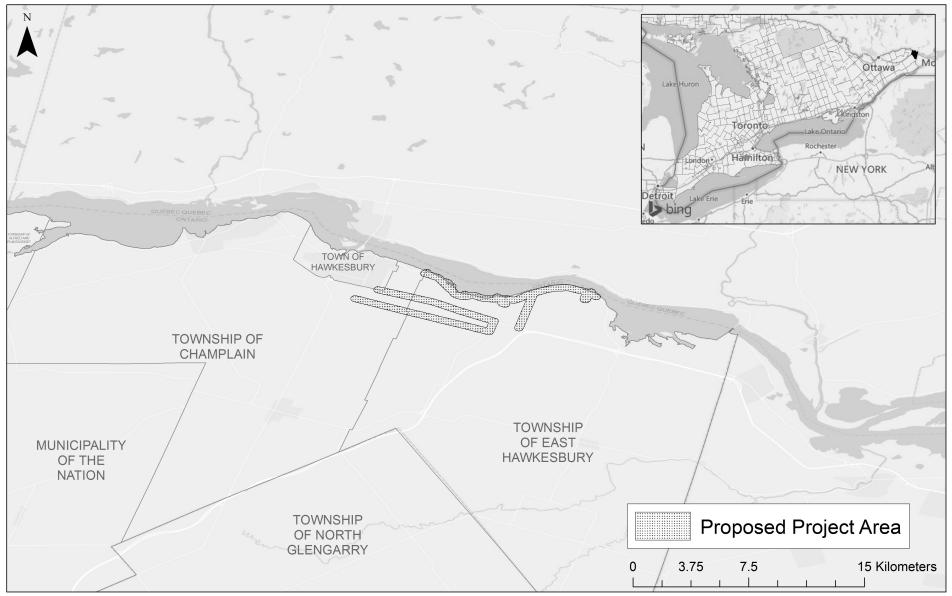
Part \	VII – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.
	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).
	Please refer to Schedule II2, Table 7.1.
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.
	Please refer to Schedule II2, Table 7.2.

/III – OEB Approvals
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).
Leave to ConstructFranchise Agreement
Certificate of Public Convenience and Necessity
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. Please refer to Schedule II4.

Schedule II1 Enbridge Gas Community Expansion Project Proposal

Chute-à-Blondeau

Chute-a-Blondeau





Schedule II2 Enbridge Gas Community Expansion Project Proposal

Chute-à-Blondeau

ommunity Expansion	Chute-à-Blondeau InService Date: Nov-01-2023												EB-2019-02 Schedule II: Redacted	
Table 3.2 - Custome	er Attachments Over The Rate Stability Period Customer Type	Firm / IT	Project Year	1	<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		81	2 72	28	20	15	<u>6</u> 18	16	<u>8</u> 18	16	<u>10</u> 15	299
	Commercial Institutional	Firm Firm		-	10	3	1	1	-	-	-	-	-	15
	Agricultural	Firm		-	1	-	-	-	-	-	-	-	-	1
	Industrial	Firm			2	1	-	-	-	-	-	-		3
	Total Customers			<u>81</u>	<u>85</u>	<u>32</u>	<u>21</u>	<u>16</u>	<u>18</u>	<u>16</u>	<u>18</u>	<u>16</u>	<u>15</u>	<u>318</u>
	Cumulative Customers			81	166	198	219	235	253	269	287	303	318	
Table 3.3 - Annual a	and Cumulative Volumes Over The Rate Stability F	Period (m3)												
			5						al Volumes -				40	
	Customer Type Residential		Project Year	<u>1</u> 96,359	278,698	397,857	454,616	<u>5</u> 496,195	<u>6</u> 535,795	<u>7</u> 576,595	<u>8</u> 617,395	9 658,195	<u>10</u> 695,395	<u>Total</u> 4,807,099
	Commercial			-	19,700	44,300	50,400	52,800	54,000	54,000	54,000	54,000	54,000	437,200
	Institutional			-	, -	-	-	-	-	-	-	-	-	-
	Agricultural			-	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85,000
	Industrial			- 06 350	100,000	250,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	2,450,000
	Total Volumes			<u>96,359</u>	<u>403,398</u>	<u>702,157</u>	<u>815,016</u>	<u>858,995</u>	<u>899,795</u>	<u>940,595</u>	<u>981,395</u>	<u>1,022,195</u>	<u>1,059,395</u>	<u>7,779,299</u>
									ative Volumes	s - m3				
	Customer Type Residential		Project Year	<u>1</u> 96,359	2 375,057	3 772,913	4 1,227,529	5 1 702 704	<u>6</u> 2,259,519	<u>7</u> 2,836,114	3,453,509	9 4,111,704	10 4 907 000	
	Commercial			90,339	19,700	64,000	114,400	1,723,724 167,200	2,259,519	275,200	329,200	383,200	4,807,099 437,200	
	Institutional			-	-	-	-	-			-	-	-	
	Agricultural			-	5,000	15,000	25,000	35,000	45,000	55,000	65,000	75,000	85,000	
	Industrial			-	100,000	350,000	650,000	950,000	1,250,000	1,550,000	1,850,000	2,150,000	2,450,000	
	Total Volumes			<u>96,359</u>	<u>499,757</u>	<u>1,201,913</u>	<u>2,016,929</u>	<u>2,875,924</u>	<u>3,775,719</u>	<u>4,716,314</u>	<u>5,697,709</u>	<u>6,719,904</u>	<u>7,779,299</u>	
Table 4.2 - Total Ca	pital Costs At End Of The Rate Stability Period													
	Total Capital Costs			<u>Year 10</u>										
Table 4.3 - Revenue	Requirement Over The Rate Stability Period													
	Revenue Requirement		Project Year	1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	9	<u>10</u>	<u>Total</u>
	Closing Rate Base (net of proposed Section 36.2 fu	unding)		<u>Year 10</u>										

Community Expansion Chute-à-Blondeau

InService Date: Nov-01-2023

EB-2019-0255 Schedule II2 Redacted

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

\$ 4,446,983

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

Year 10 13,984

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

Section 36.2 Funding Amount Per Volume (m3)

Year 10 4.20

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

Project Year	<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>
	\$ 16,974	60,655	97,419	112,177	120,559	128,024	135,173	142,322	149,472	155,990	\$ 1,118,764
_	22,163	92,781	161,496	187,454	197,569	206,953	216,337	225,721	235,105	243,661	1,789,239
_	\$ 39,136	<u>153,436</u>	<u>258,915</u>	299,631	318,128	334,977	<u>351,510</u>	368,043	384,576	<u>399,651</u>	\$ 2,908,003

Net Present Value







<u>1.00</u>

InService Date: Nov-01-2023

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

Net Present Value





Schedule II2 Redacted

EB-2019-0255

Schedule II3 Enbridge Gas Community Expansion Project Proposal

Chute-à-Blondeau

Total Forecasted Customers 318 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	GHG per customer	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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	67	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 104,828	7.2	-2.7	479	(179)
Electricity F/A	29	9%			\$ 1,481						112
Electricity Baseboard	38	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 26,958	0.6	3.9	22	149
Propane	140	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 39,643	5.6	-1.1	. 782	(152)
Wood	29	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	16	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	318	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 191,648	13.9	4.1	1,300	(70)

1 Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specially, 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.

		Er	nission Factors		
	CO2	CH4	N2O	CO2e Units	
Natural Gas	1863 g/m3	0.037 g/m3	0.035 g/m3	0.001874355 tonnes/n	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/k	κWh
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 montly average EDPRO residential rates for Zone 4 (March 2020)

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

Schedule II4 Enbridge Gas Community Expansion Project Proposal

Chute-à-Blondeau

Chute-à-Blondeau Community Expansion Project Pipeline Construction Schedule

Task Nama		2022														202	23							2024												
Task Name	Jan	Feb	Ма	r Apı	r Ma	y Jun	Jul	Aug	Sep	Oct	Nov	v Dec	Jan I	Feb [Mar	Apr N	Лау .	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																				
Permits & Approvals																																				
Leave to Construct Application and Approval																																				
Pre-Construction, Construction and Testing																																				
In Service																																				

Schedule II5 Enbridge Gas Community Expansion Project Proposal

Chute-à-Blondeau



TOWNSHIP OF EAST HAWKESBURY

5151 County Road 14, P.O. Box 340 St-Eugène, Ontario, K0B 1P0 Tel.: 613 674-2170 Fax: 613 674-2989 www.easthawkesbury.ca CANTON DE HAWKESBURY EST

5151 Chemin de Comté 14, C.P. 340 St-Eugène, Ontario, KOB 1P0 Tél.:613 674-2170 Téléc.: 613 674-2989

www.hawkesburyest.ca

March 16, 2020

Mr. Ian Ross
Director – Eastern Region Operations
Enbridge Gas Inc.
400 Coventry Road, Ottawa, On K1K 2C7

Dear Mr. Ross

Re: Expression of Support for Natural Gas Expansion to the Township of East Hawkesbury/

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 East Hawkesbury, I would like to formally express our interest to have 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 draft Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may be required to include support for the proposed project from Band Council(s) 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 cost for our residents.

Sincerely!

Robert Kirby Mayor

Township of East Hawkesbury

613-674-2170 ext. 1006

llalonde@easthawkesbury.ca

Schedule JJ Enbridge Gas Community Expansion Project Proposal

Conmee

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

Part I – Name of Proponent	
Name of Proponent:	File No:
Enbridge Gas Inc.	EB-2019-0255
Project Name: Conmee Community Expansion Project	
Address of Head Office:	Telephone Number:
50 Keil Drive North	519-436-4600
Chatham, ON N7M 5M1	010 400 4000
Name of Individual to Contact:	Office Telephone Number:
	519-436-5325
Patrick McMahon	Cell Phone Number:
	519-437-0759
	Email Address:
	patrick.mcmahon@enbridge.com

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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. 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.

of eac	ving: communities I serve any on-res ch community by r	iew of the project, which is to be connected, including erve Indigenous communic esidential, commercial/ins of pipeline; and nominal p	g whether the pro ties; existing pop titutional and ind	ulati
The pr	oposed facilities will p	to serve the Township of Conmorovide access to natural gas to its its industrial / institutional and 3 industrial	o a forecasted 126 c	
existin of 2" p system	g 2" polyethylene pipe olyethylene pipe and n will extend alo	Il be in Kakabeka Falls one. The proposed distribution pi 7,363 m of 4" polyethylene pip ng,	peline will consist of e. The proposed dis on a	f 33,2 stribut ind
	then on _ and _	,	anu	,
	Pipe Type	I size of the distribution pipeline Diameter (NPS)	Length (m)	
	Polyethylene	2	33,251	
		4	7,363	
	Polyethylene	4		
The ap	Polyethylene	I size of the reinforcement requ	uired:	
The ap	Polyethylene pproximate length and	I size of the reinforcement requ		
The ap	Polyethylene	,	Length (m) 375	
The ap	Polyethylene proximate length and Pipe Type	I size of the reinforcement requ	Length (m)	

Please refer to Schedule JJ2, Table 3.2.

3

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 JJ2, Table 3.3.
3.4	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.
	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.
	Please refer to Schedule JJ3 Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule JJ4 for Proposed Construction Schedule.
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.
	Please refer to Schedule JJ5.

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.

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.

Enbridge Gas does not currently have a franchise agreement with nor a Certificate of Public Convenience and Necessity for the Township of Conmee. Enbridge Gas does have franchise agreements and CPCNs for adjacent municipalities including the City of Thunder Bay and the Municipality of Oliver Paipoonge.

Part IV – Cost of Project

4.1 Confirm that the proposed project includes a ten-year rate stability period.

The proposed project does include a ten-year rate stability period.

4.2 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).

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).

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.

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.

Please refer to Schedule JJ2, Table 4.2.

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total	
Revenue Requirement					

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule JJ2, Table 4.3.

Part \	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the
	project.
	\$19,732,817
	Please refer to Schedule JJ2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$156,610
	Please refer to Schedule JJ2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$34.05
	Please refer to Schedule JJ2, Table 5.3.

Part VI – Distribution Charge

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.

Provide a confirmation that there would be no material crosssubsidization between rate classes.

Please refer to Schedule JJ2, Table 6.1.

Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part VII - Profitability Index / Benefit to Cost Ratio

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.

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).

Please refer to Schedule JJ2, Table 7.1.

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.

Please refer to Schedule JJ2, Table 7.2.

Part VIII – OEB Approvals

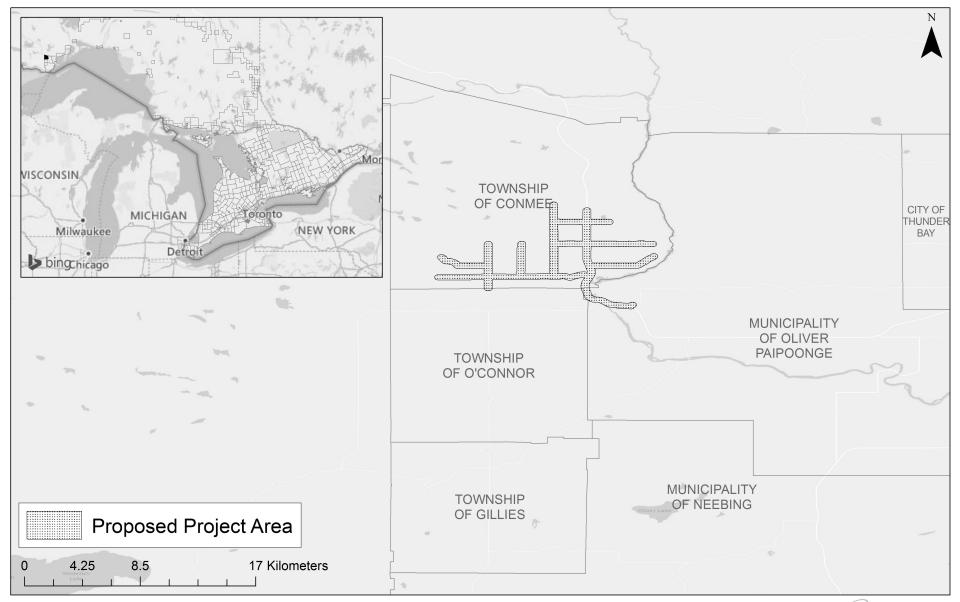
- 8.1 Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order).
 - Leave to Construct
 - Franchise Agreement
 - Certificate of Public Convenience and Necessity
 - System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)
- 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.

Please refer to Schedule JJ4.

Schedule JJ1 Enbridge Gas Community Expansion Project Proposal

Conmee

Conmee (Outside Thunder Bay)





Schedule JJ2 Enbridge Gas Community Expansion Project Proposal

Conmee

Community Expansion Conmee

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period

Firm / 17
Firm

Cumulative Customers

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

Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

Total Capital Costs

Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule JJ2 Redacted

Project Year	1	2	3	4	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	<u>1</u> 36	2 27	<u>3</u> 18	<u>4</u> 9	9	4	4	4	4	4	119
	-	2	1	-	-	-	-	-	-	-	3
	-	-	-	-	-	-	-	-	-	-	-
	-	1	-	-	-	-	-	-	-	-	1
	-	3	-	-	-	-	-	-	-	-	3
	<u>36</u>	<u>33</u>	<u>19</u>	<u>9</u>	<u>9</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>126</u>
	36	69	88	97	106	110	114	118	122	126	
					Annual V	olumes - m3					
Project Year	<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>
	39,600	108,900	158,400	188,100	207,900	222,200	231,000	239,800	248,600	257,400	1,901,900
	-	3,600	9,700	12,200	12,200	12,200	12,200	12,200	12,200	12,200	98,700
	-	-	-	-	-	-	-	-	-	-	-
	-	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85,000
	-	150,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	2,550,000
	<u>39,600</u>	<u>267,500</u>	<u>478,100</u>	<u>510,300</u>	<u>530,100</u>	<u>544,400</u>	<u>553,200</u>	<u>562,000</u>	<u>570,800</u>	<u>579,600</u>	<u>4,635,600</u>
						e Volumes - m					
Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	9	<u>10</u>	
	39,600	148,500	306,900	495,000	702,900	925,100	1,156,100	1,395,900	1,644,500	1,901,900	
	-	3,600	13,300	25,500	37,700	49,900	62,100	74,300	86,500	98,700	
	-	-	-	-	-	-	-	-	-	-	
	-	5,000	15,000	25,000	35,000	45,000	55,000	65,000	75,000	85,000	
	-	150,000	450,000	750,000	1,050,000	1,350,000	1,650,000	1,950,000	2,250,000	2,550,000	
	<u>39,600</u>	<u>307,100</u>	<u>785,200</u>	<u>1,295,500</u>	<u>1,825,600</u>	<u>2,370,000</u>	<u>2,923,200</u>	<u>3,485,200</u>	<u>4,056,000</u>	<u>4,635,600</u>	







Community Expansion Conmee

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue

Total Distribution Charge

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

Cash Inflow Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

EB-2019-0255 Schedule JJ2 Redacted

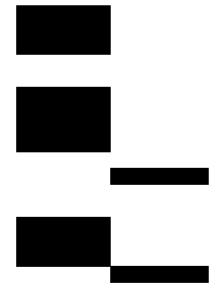
\$ 19,732,817

Year 10 156,610

Year 10 34.05

Project Year	<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>
	\$ 8,340	35,545	58,936	65,546	69,716	72,728	74,581	76,435	78,288	80,141	\$ 620,257
	9,108	61,525	109,963	117,369	121,923	125,212	127,236	129,260	131,284	133,308	1,066,188
	\$ 17.448	97.070	168.899	182.915	191.639	197.940	201.817	205.695	209.572	213,449	\$ 1.686.445

Net Present Value



Page 2 of 3

<u>1.00</u>

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

Net Present Value





Page 3 of 3

EB-2019-0255 Schedule JJ2 Redacted

Schedule JJ3 Enbridge Gas Community Expansion Project Proposal

Conmee

Section 3.4 Conmee

Total Forecasted Customers 126 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)		er	Estimated Annual Savings		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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	26	21%	\$ 5,000	\$ 2,787	\$ 1,460	\$ 1,3	28	\$ 35,131	6.6	-2.4	173	(64)
Electricity F/A	11	9%					38		0.5	3.6		41
Electricity Baseboard	15	12%	\$ 12,000	\$ 1,998	\$ 1,460	\$ 5	38	\$ 8,142	0.5	3.6	8	54
Propane	55	44%	\$ 600	\$ 1,611	\$ 1,460	\$ 1	52	\$ 8,421	5.1	-1.0	283	(54)
Wood	11	9%	\$ 3,500	N/A	N/A	\$ -		N/A	N/A	N/A	N/A	N/A
Other	6	5%	\$ 5,000	N/A	N/A	\$ -		N/A				
Total	126	100%	\$ 31,100	\$ 8,395	\$ 5,838	\$ 2,5	57	\$ 57,801	12.7	3.8	471	(24)

1 Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specially, 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/kWl						
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 01 (Community Expansion, Non-FN)								
	Consumption Equivale		Price per Unit					
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.663			
Heating oil	L	2397	Heating oil	\$/L	1.163			
Electricity	kWh	17778	Electricity	\$/kWh	0.112			
Propane	L	3309	Propane	\$/L	0.487			

Notes

Gas prices correspond to EGI (Union Gas North West) 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 are currently unavailable for the Union North Rate zones.

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

Schedule JJ4 Enbridge Gas Community Expansion Project Proposal

Conmee

Conmee Community Expansion Project Pipeline Construction Schedule

Task Name		2022									2023									2024															
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct 1	Nov D	ec J	lan Fe	b Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																			
Permits & Approvals																																			
Leave to Construct Application and Approval												=																							
Pre-Construction, Construction and Testing								Ī																											
In Service																																			

Schedule JJ5 Enbridge Gas Community Expansion Project Proposal

Conmee



19 Holland Rd W. RR.#1 Kakabeka Falls, ON POT 1W0

www.conmee.com

March 11, 2020

Submitted Via Email: wendy.landry@enbridge.com

Re: Expression of Support for Natural Gas Expansion to Conmee Township

Dear: REGIONAL DIRECTOR and WENDY LANDRY, Municipal Advisor

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 Corporation of the Township of Conmee, I would like to formally express our interest to have the 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 draft Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may be required to 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.

Sincerely,

Laura Bruni, CAO/Clerk Township of Conmee

807-475-5229

Schedule KK Enbridge Gas Community Expansion Project Proposal

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

Part I – Name of Proponent	
Name of Proponent:	File No:
Enbridge Gas Inc.	EB-2019-0255
Project Name: Ear Falls Community Expansion Project	
Address of Head Office:	Telephone Number:
50 Keil Drive North	519-436-4600
Chatham, ON N7M 5M1	010 400 4000
Name of Individual to Contact:	Office Telephone Number:
	519-436-5325
Patrick McMahon	Cell Phone Number:
	519-437-0759
	Email Address:
	patrick.mcmahon@enbridge.com

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
	IV/A
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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.
	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.
	N/A

Part III – Description of and Support for Project Provide a general overview of the project, which is to include the Redacted 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 expanded natural gas service within the Township of Ear Falls. The proposed facilities will provide access to natural gas to a forecasted 9 customers (5 residential, 3 commercial / institutional and 1 industrial). The proposed tie-in point will be near the intersection of connecting to an existing 2" steel pipeline. The proposed distribution pipeline will consist of 3,010 m of 2" polyethylene pipe. The proposed distribution system will extend via to reach and There will be no pipeline reinforcements required. A medium-sized station requires upsizing work to accommodate additional loads for the system. The approximate length and size of the distribution pipelines required: Pipe Type Diameter (NPS) Length (m) Polyethylene 3,010 Please refer to Schedule KK1 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 KK2, Table 3.2. 3.3 Provide the annual and cumulative forecast of volumes (in m³) over the tenyear 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 KK2, Table 3.3.

3.4	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.
	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.
	Please refer to Schedule KK3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule KK4 for Proposed Construction Schedule.
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.
	Please refer to Schedule KK5.
3.7	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.
	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.
	Please refer to Schedule KK6 for Enbridge's CPCN for the Township of Ear Falls (EBC 55) which covers the entire area of the proposed project.

Part IV – Cost of Project Confirm that the proposed project includes a ten-year rate stability period. The proposed project does include a ten-year rate stability period. 4.2 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). 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). 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. 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. Please refer to Schedule KK2, Table 4.2. 4.3 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. Complete the tables below: Revenue Requirement Description Year 1 Year 2... Year 10 Total **Revenue Requirement**

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule KK2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project. \$1,797,382
	Please refer to Schedule KK2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project. \$199,709 Please refer to Schedule KK2, Table 5.2
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project. \$14.93 Please refer to Schedule KK2, Table 5.3.

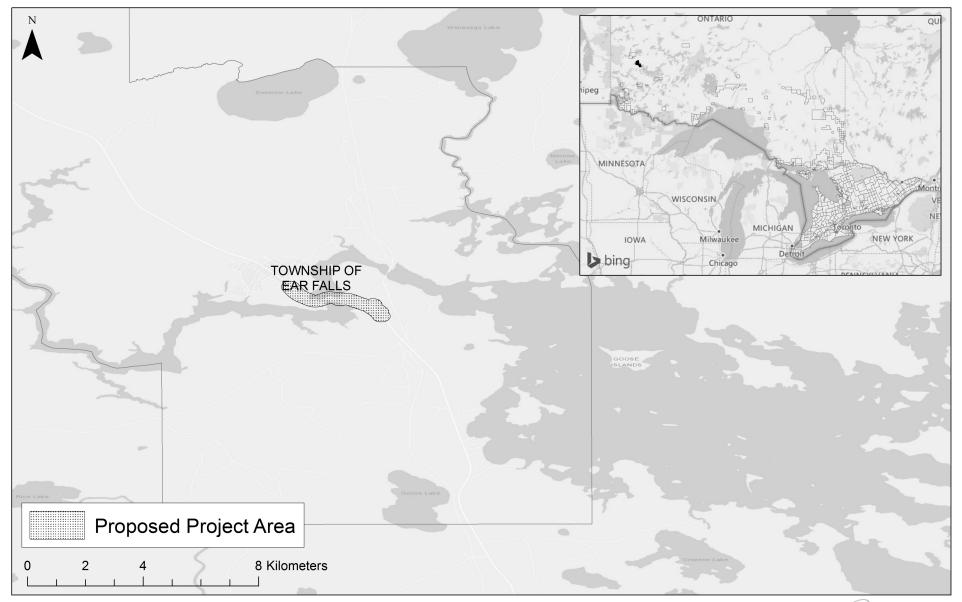
Part \	VI – Distribution Charge									
6.1	Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.									
	Provide a confirmation that there would be no material cross- subsidization between rate classes.									
	Please refer to Schedule KK2, Table 6.1.									
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.									

Part '	VII – Profitability Index / Benefit to Cost Ratio
7.1	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.
	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).
	Please refer to Schedule KK2, Table 7.1.
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.
	Please refer to Schedule KK2, Table 7.2.

Part \	/III – 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).
	Leave to Construct
	System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)
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.
	Please refer to Schedule KK4.

Schedule KK1 Enbridge Gas Community Expansion Project Proposal

Ear Falls





Schedule KK2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Ear Falls

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period

Customer TypeFirm / ITResidentialFirmCommercialFirmInstitutionalFirmAgriculturalFirmIndustrialFirmTotal CustomersFirm

Cumulative Customers

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

Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

Customer Type

Residential Commercial Institutional Agricultural Industrial Total Volumes

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

Total Capital Costs

Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule KK2 Redacted

Project Year	1	<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>
	1	1	1	1	1	-	-	-	-	-	5
	-	3	-	-	-	-	-	-	-	-	3
	-	-	-	-	-	-	-	-	-	-	-
	-	- 1	-	-	-	-	_	-	-	-	- 1
_	<u>1</u>	<u>5</u>	<u>1</u>	<u>1</u>	<u>1</u>	=	<u>-</u>	<u>-</u>	<u>-</u>	<u> </u>	<u>9</u>
	1	6	7	8	9	9	9	9	9	9	
					Annual Vo	olumes - m3					
Project Year	1	<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>
	1,100	3,300	5,500	7,700	9,900	11,000	11,000	11,000	11,000	11,000	82,500
	-	4,700	9,400	9,400	9,400	9,400	9,400	9,400	9,400	9,400	79,900
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
_	-	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
	<u>1,100</u>	<u>58,000</u>	<u>114,900</u>	<u>117,100</u>	<u>119,300</u>	<u>120,400</u>	<u>120,400</u>	<u>120,400</u>	<u>120,400</u>	<u>120,400</u>	<u>1,012,400</u>
					Cumulative	Volumes - m3					
Project Year	<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>	
	1,100	4,400	9,900	17,600	27,500	38,500	49,500	60,500	71,500	82,500	
	-	4,700	14,100	23,500	32,900	42,300	51,700	61,100	70,500	79,900	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	_	-	-	-	
_	-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000	
	<u>1,100</u>	<u>59,100</u>	<u>174,000</u>	<u>291,100</u>	<u>410,400</u>	<u>530,800</u>	<u>651,200</u>	<u>771,600</u>	<u>892,000</u>	<u>1,012,400</u>	







Community Expansion Ear Falls

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

EB-2019-0255 Schedule KK2 Redacted

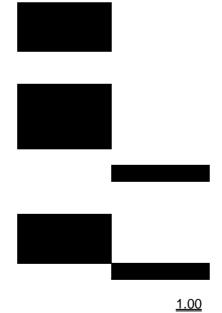
\$ 1,797,382

<u>Year 10</u> 199,709

Year 10 14.93

Project Year	<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>
	\$ 232	5,332	10,433	10,896	11,360	11,591	11,591	11,591	11,591	11,591 \$	96,209
	253	13,340	26,427	26,933	27,439	27,692	27,692	27,692	27,692	27,692	232,852
	\$ 485	18,672	36,860	37,829	38,799	39,283	39,283	39,283	39,283	39.283 \$	329.061

Net Present Value



Page 2 of 3

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

Net Present Value



EB-2019-0255 Schedule KK2 Redacted

Schedule KK3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Ear Falls

Total Forecasted Customers 9 **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	GHG per customer	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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	2	21%	\$ 5,000	\$ 2,787	\$ 1,460	\$ 1,328	\$ 2,509	6.6	-2.4	12	(5)
Electricity F/A	1	9%	\$ 5,000	\$ 1,998	\$ 1,460	\$ 538	\$ 436	0.5	3.6	0	3
Electricity Baseboard	1	12%	\$ 12,000	\$ 1,998	\$ 1,460	\$ 538	\$ 582	0.5	3.6	5	4
Propane	4	44%	\$ 600	\$ 1,611	\$ 1,460	\$ 152	\$ 601	5.1	-1.0	20	(4)
Wood	1	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	0	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	9	100%	\$ 31,100	\$ 8,395	\$ 5,838	\$ 2,557	\$ 4,129	12.7	3.8	34	(2)

1 Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specially, 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	01 (Community Expansion	n, Non-FN)		
	Consumption Equivale	ent		Price per Un	it
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.663
Heating oil	L	2397	Heating oil	\$/L	1.163
Electricity	kWh	17778	Electricity	\$/kWh	0.112
Propane	L	3309	Propane	\$/L	0.487

Notes:

Gas prices correspond to EGI (Union Gas North West) 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 are currently unavailable for the Union North Rate zones.

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

Schedule KK4 Enbridge Gas Community Expansion Project Proposal

Ear Falls Community Expansion Project Pipeline Construction Schedule

Tools Nome o		2022				2023							2024																						
Task Name	Jan	Feb	Mai	r Apr	May	Jun	Jul	Aug	Sep	Oct 1	Nov D	ec .	Jan Fe	b Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																			
Permits & Approvals																																			
Leave to Construct Application and Approval																																			
Pre-Construction, Construction and Testing																																			
In Service																																			

Schedule KK5 Enbridge Gas Community Expansion Project Proposal

THE CORPORATION OF THE TOWNSHIP OF EAR FALLS

DATE: April 7, 2020

RESOLUTION NO. 079
ITEM NO. 7.6
MOVED BY Dan Sutton
SECONDED BY Rob Eady
WHEREAS the Government of Ontario has announced plans to increase access to natural gas by making financial support available for new expansion projects; and
WHEREAS Enbridge Gas will submit project proposals to the Ontario Energy Board and has requested input on proposed projects from the Township of Ear Falls;
NOW THEREFORE BE IT RESOLVED THAT
be presented as the recommended project area for the Township of Ear Falls.
CARRIED DEFEATED
Mayor Rall
Clerk
DECLARATION OF PECUNIARY INTEREST
THE FOLLOWING:
DISCLOSED HIS / HER (THEIR) INTEREST(S), VACATED HIS / HER (THEIR) SEAT(S), ABSTAINED FROM DISCUSSION AND DID NOT VOTE ON THIS QUESTION.
Clerk
DISTRIBUTION

Schedule KK6 Enbridge Gas Community Expansion Project Proposal

Bruce Fele Burn. Ereflet min. E. B. C. 55

CNTARIO ENERGY BOARD

IN THE MATTER OF The Municipal Franchises Act, R.S.C. 1960, Chapter 255, Section 8 and amendments thereto;

EB-2019-0255 Schedule KK6

AND IN THE MATTER OF an Application by Twin City Gas Company Limited for a Certificate of Public Convenience and Necessity to construct works to supply gas to the Griffith Mine at Bruce Lake in the District of Kenora and to persons residing in the area adjacent thereto.

BEFORE:

A. R. CROZIER, Chairman) Monday, the 12th day of)
A. B. JACKSON, Vice-Chairman) September, 1966.

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

UPON THE APPLICATION of Twin City Gas Company Limited, (hereinafter referred to as the "Applicant") for a certificate pursuant to the provisions of The Municipal Franchises Act, R. S. O. 1960, Chapter 255, Section 8 and amendments thereto, after notice being duly given to the parties interested as directed by the Board and the matter coming on for hearing before the Board on the 12th day of September, 1966, in Toronto, Ontario, after due notice of such hearing had been given as directed by the Board in the presence of Counsel for the applicant and Counsel for The Steel Company of Canada Ltd. and Counsel for Canadian National Railways, and upon hearing read the application and the proof of service thereof and upon hearing the evidence adduced and upon hearing Counsel aforesaid:

- 1. THIS BOARD DOTH ORDER that a Certificate of Public Convenience and Necessity be and the same is hereby granted to Twin City Gas Company Limited for the supply of natural gas to the inhabitants of the unorganized area within a radius of sixteen (16) miles of the Griffith Mine at Bruce Lake in the District of Kenora and for the construction of the works necessary therefor;
- 2. AND THIS BOARD DOTH FURTHER ORDER that the Certificate of Public Convenience and Necessity hereby granted may be assigned by Twin City Gas Company Limited to Montreal Trust Company, the trustee under the deed of trust and mortgage, dated as of June 1, 1958 as amended,

made between Twin City Gas Company Limited and Montreal Trust Company, as trustee and to such person, firm or corporation to whom Montreal Trust Company, as trustee, may assign such Certificate in execution of the trusts under the said deed of trust and mortgage, together with, in each case, all rights and powers, statutory or otherwise, which flow from or are evidenced by such Certificate.

3. AND THIS BOARD DOTH FURTHER ORDER that the costs of this hearing are fixed at \$25,00 and shall be paid forthwith by the Applicant to the Board.

DATED at Toronto, this 19th day of September, 1966.

ONTARIO ENERGY BOARD

Secretary

IN THE MATTER OF The Municipal Franchises Act, R.S.O. 1960, Chapter 255, Section 8 and amendments thereto:

AND IN THE MATTER OF an Application by Twin City Gas Company Limited for a Certificate of Public Convenience and Necessity to construct works to supply gas to the Griffith Mine at Bruce Lake in the District of Kenora and to persons residing in the area adjacent thereto.

CERTIFICATE

Schedule LL Enbridge Gas Community Expansion Project Proposal

Edwardsburgh Cardinal - _____ and Spencerville

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

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

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
2.2	Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: • 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. 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.

Part III – Description of and Support for Project Provide a general overview of the project, which is to include the Redacted 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 expand gas distribution service within the communities of Spencerville and Cardinal in the Township of Edwardsburgh Cardinal as well as within the Township of Augusta. The proposed facilities will provide access to natural gas to a forecasted 527 customers (485 residential, 39 commercial / institutional and 3 industrial). There are two distinct segments to this project. For the first segment (see map Schedule LL1(a)), the proposed tie-in point is at the junction of _____ and ____ connecting to an existing 4" steel pipeline. The proposed distribution pipeline will consist of 17,800 m of 2" polyethylene pipe, 1,500 m of 4" polyethylene pipe, 1,050 m of 2" steel pipe and 10,000 m of 4" steel pipe. In the Spencerville area, the proposed distribution system will extend from to other areas along the distribution network. In the Township of Augusta (and some areas of Edwardsburgh Cardinal), the proposed distribution system will extend along _____ to ____ until ____, ____ until ____, _____, ____, and _____. For the _____ segment in Edwardsburgh Cardinal (see map Schedule LL1(b)), there are 2 proposed tie-in points for the distribution pipeline system. The first will be in the community of Johnstown near _____ and the second tie-in will be at the junction of _____ and _____. The distribution pipeline will be installed from near _____ through to _____ to include _____ _____, _____, ____ and ending at ______ near second tie-in point. The proposed distribution pipeline along _____ will consist of 9,080 m of 2" polyethylene pipe and 2,250 m of 4" polyethylene pipe. There will be no reinforcement required to accommodate additional loads for the systems. There are 5 small and 1 medium sized distribution stations required for the proposed distribution system expansions. The 5 small distribution stations will be located at the intersection of _____ and ____ (Augusta Township), the intersection of ____ and ___ (Augusta Township), the intersection of ____ and _____ (Augusta Township), the intersection of ____ and ___ (Augusta Township) and the intersection of _____ and ____ (Edwardsburgh Cardinal). The medium sized station will be located at the intersection of _____ and _____ (Edwardsburgh Cardinal).

The approximate length and size of the distribution pipelines required:

Pipe Type	Diameter (NPS)	Length (m)
Polyethylene	2	26,880

The approximate length and size of the supply laterals required:

Pipe Type	Diameter (NPS)	Length (m)
Polyethylene	4	3,750
Steel	2	1,050
Steel	4	10,000

Please refer to Schedules LL1(a) and LL1(b) for Project Maps.

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 LL2, Table 3.2.

Provide the annual and cumulative forecast of volumes (in m³) over the tenyear 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 LL2, Table 3.3.

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.

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 *Greenhouse Gas Pollution Pricing Act* 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.

Please refer to Schedule LL3, Table 3.4.

Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.

Please refer to Schedule LL4 for Proposed Construction Schedule.

3.6 Updated 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.

Please refer to Schedules LL5(a) and LL5(b).

In May 2020, the Township of Edwardsburgh Cardinal and the Township of Augusta conducted an Expression of Interest Survey of all the residences and businesses along the route of the proposed service expansion. The municipalities have provided Expression of Interest Forms from potential customers located within the area of the proposed project who are interested in switching to natural gas service. Please refer to Schedule LL5(c) and attachments.

3.7 Updated

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.

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.

Please refer to Schedule LL6 for Enbridge's CPCNs for the Township of Edwardsburg Cardinal (EB-2007-0768) and the Township of Augusta (EBC 78) which cover the entire area of the proposed project.

Part IV – Cost of Project

4.1 Confirm that the proposed project includes a ten-year rate stability period.

The proposed project does include a ten-year rate stability period.

4.2 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).

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).

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.

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.

Please refer to Schedule LL2, Table 4.2.

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule LL2, Table 4.3.

Part \	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$19,118,445
	Please refer to Schedule LL2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$36,278
	Please refer to Schedule LL2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$12.64
	Please refer to Schedule LL2, Table 5.3.

Part VI – Distribution Charge

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.

Provide a confirmation that there would be no material crosssubsidization between rate classes.

Please refer to Schedule LL2, Table 6.1.

Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part VII – Profitability Index / Benefit to Cost Ratio

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.

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).

Please refer to Schedule LL2, Table 7.1.

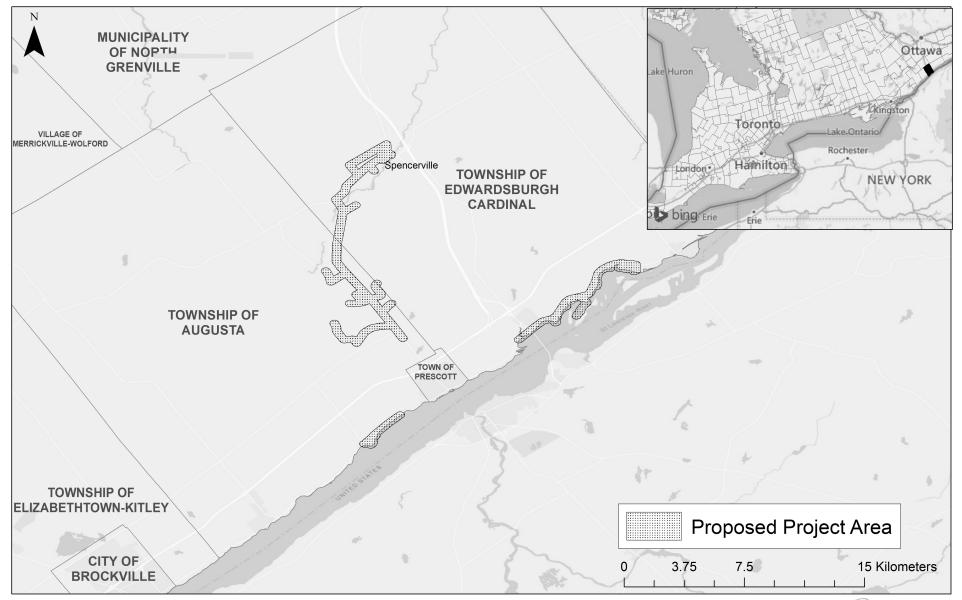
Provide, in a summary table that otherwise meets the requirements of section 7.1, the expected PI of the project without the proposed section 36.2 funding.

Please refer to Schedule LL2, Table 7.2.

Schedule LL1 Enbridge Gas Community Expansion Project Proposal

Edwardsburgh Cardinal - _____ and Spencerville

Edwardsburgh Cardinal, Augusta and Spencerville





Schedule LL2 Enbridge Gas Community Expansion Project Proposal

Edwardsburgh Cardinal - _____ and Spencerville

Community Expansion Edwardsburgh Cardinal - _____ and Spencerville

InService Date: Nov-01-2023

Table 3.2 - Customer A	Attachments Over	The Rate Stability	/ Period
------------------------	------------------	--------------------	----------

Customer Type	Firm / IT
Residential	Firm
Commercial	Firm
Institutional	Firm
Agricultural	Firm
Industrial	Firm
Total Customers	

Cumulative Customers

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

Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

Total Capital Costs

Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule LL2 Redacted

Project Year	140 - - -	113 18 1 4	3 63 7 -	4 36 2 -	5 33 2 -	<u>6</u> 21 1 -	7 19 1 -	8 21 1 -	9 20 1 -	10 19 1 -	Total 485 34 1 4
_	<u>-</u> <u>140</u>	3 <u>139</u>	<u>-</u> <u>70</u>	<u>-</u> <u>38</u>	<u>-</u> <u>35</u>	<u>-</u> <u>22</u>	<u>-</u> <u>20</u>	<u>-</u> <u>22</u>	<u>-</u> <u>21</u>	<u>-</u> <u>20</u>	3 <u>527</u>
	<u>170</u>	<u>100</u>	<u>10</u>	<u>50</u>	<u>55</u>	<u> 22</u>	<u>20</u>	<u> 22</u>	<u>21</u>	<u>20</u>	<u>321</u>
	140	279	349	387	422	444	464	486	507	527	
					Annual V	olumes - m3					
Project Year	<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>
	147,493	413,943	599,468	703,749	776,396	833,385	875,295	917,205	960,215	1,001,025	7,228,173
	-	41,000	92,500	105,200	109,600	112,900	115,100	117,300	119,500	121,700	934,800
	-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
	-	20,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	340,000
_	-	150,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	2,550,000
	<u>147,493</u>	<u>649,943</u>	<u>1,081,968</u>	<u>1,198,949</u>	<u>1,275,996</u>	<u>1,336,285</u>	<u>1,380,395</u>	<u>1,424,505</u>	<u>1,469,715</u>	<u>1,512,725</u>	<u>11,477,973</u>
					Cumulative	Volumes - m	3				
Project Year	1	<u>2</u>	<u>3</u>	4	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	
	147,493	561,436	1,160,904	1,864,653	2,641,048	3,474,433	4,349,728	5,266,933	6,227,148	7,228,173	
	-	41,000	133,500	238,700	348,300	461,200	576,300	693,600	813,100	934,800	
	-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000	
	-	20,000	60,000	100,000	140,000	180,000	220,000	260,000	300,000	340,000	
	-	150,000	450,000	750,000	1,050,000	1,350,000	1,650,000	1,950,000	2,250,000	2,550,000	
_	<u>147,493</u>	<u>797,436</u>	<u>1,879,404</u>	3,078,353	4,354,348	5,690,633	7,071,028	8,495,533	9,965,248	11,477,973	







Community Expansion Edwardsburgh Cardinal -

and Spencerville

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue

SES Revenue

Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

EB-2019-0255 Schedule LL2 Redacted

<u>\$ 19,118,445</u>

<u>Year 10</u> 36,278

Year 10 12.64

Project Year 200,006 216,617 239,137 267,748 \$ 1,978,531 31,833 111,309 175,164 229,600 248,674 258,443 33,923 149,487 248,853 275,758 293,479 307,346 317,491 327,636 338,034 347,927 2,639,934 65,756 260,796 424,017 475,764 510,096 536,945 556,628 576,310 596,477 <u>615,675</u> \$ 4,618,465

Net Present Value







Page 2 of 3

<u>1.00</u>

Community Expansion Edwardsburgh Cardinal -

and Spencerville

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital
Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

Net Present Value





Page 3 of 3

EB-2019-0255 Schedule LL2 Redacted

Schedule LL3 Enbridge Gas Community Expansion Project Proposal

Edwardsburgh Cardinal - _____ and Spencerville

Section 3.4 Edwardsburgh Cardinal - _____ and Spencerville

Total Forecasted Customers 527 Penetration Rate 82%

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	GHG per customer Existing Fuel	<u> </u>	Estimated Annual GHG - Total Community - Existing	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Cil	46	00/	ć 5.000	ć 2.707	ć 1.40F	ć 4.202	ć 50.724	6.6	2.4	202	(112)
OII	46	9%				•		6.6			` '
Electricity F/A	9	2%	·				1				33
Electricity Baseboard	28	5%	\$ 12,000	\$ 1,998	\$ 1,495	\$ 503	\$ 13,948	0.5	3.6	15	100
Propane	398	75%	\$ 600	\$ 1,611	\$ 1,495	\$ 116	\$ 46,222	5.1	-1.0	2,030	(390)
Wood	0	0%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	46	9%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	527	100%	\$ 31,100	\$ 8,395	\$ 5,981	\$ 2,414	\$ 124,550	12.7	3.8	2,352	(370)

¹ Based on completed Market Research for this community. 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	0.00187435	5 tonnes/m3						
Heating Oil	2725 g/L	0.006 g/L	0.031 g/L	0.00273438	8 tonnes/L						
Propane	1510 g/L	0.024 g/L	0.108 g/L	0.00154278	4 tonnes/L						
Electricity	30 g/kWh	-	-	0.0000	3 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 01 (Community Expansion, Non-FN)							
	Consumption Equivale	ent		Price per Un	it		
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.680		
Heating oil	L	2397	Heating oil	\$/L	1.163		
Electricity	kWh	17778	Electricity	\$/kWh	0.112		
Propane	L	3309	Propane	\$/L	0.487		

Notes:

Gas prices correspond to EGI (Union Gas North East) 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 are currently unavailable for the Union North Rate zones.

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

Schedule LL4 Enbridge Gas Community Expansion Project Proposal

Edwardsburgh Cardinal - _____ and Spencerville

Edwardsburgh Cardinal - _____ and Spencerville Community Expansion Project Pipeline Construction Schedule

Taali Nama		2022									20	23						2024																	
Task Name	Jan	Feb	Ma	r Apı	May	y Jun	Jul	Aug	Sep	Oct	Nov D	ec J	Jan Fe	b Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																			
Permits & Approvals												Ŧ																							·
Leave to Construct Application and Approval																																			
Pre-Construction, Construction and Testing																																			
In Service																																			

Schedule LL5 Enbridge Gas Community Expansion Project Proposal

Edwardsburgh Cardinal - _____ and Spencerville



Phone: 613-658-3055 Fax: 613-658-3445

Toll Free: 866-848-9099 E-mail: mail@twpec.ca P.O. Box 129, 18 Centre St. Spencerville, Ontario KOE 1XO

March 2, 2020

Luke Skaarup
Director, Northern Region Operations
Enbridge Gas Inc.
36 Charles St.
North Bay, ON
P1B 8K7

RE: Natural Gas Expansion Program Update

Dear Mr. Skaarup,

Thank you for your letter dated February 24, 2020 concerning the December 2019 Government of Ontario announcement with respect to the next steps in the Ontario natural gas expansion/extension program.

The Township of Edwardsburgh Cardinal has been following this program closely and we have been working for the past four years with our previous franchise partner, Union Gas, to extend natural gas services to our residents on and in the Village of Spencerville (Spencerville project).

We are pleased to note that the Government of Ontario has 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 Township 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 Edwardsburgh Cardinal, I would like to formally express our interest to have the Spencerville Project 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 draft guidelines issued by the OEB (EB-2019-0255) we are aware that Enbridge Gas may be required to include support for our proposed project. Please find enclosed our Council Resolution No: 2017-208, passed on June 26, 2017, wherein our Council agrees to making a financial contribution towards the proposed project in an amount equivalent to the property tax that would be recovered on the new natural gas infrastructure for a minimum of a ten (10) year period.



Phone: 613-658-3055 Fax: 613-658-3445

Toll Free: 866-848-9099 E-mail: mail@twpec.ca P.O. Box 129, 18 Centre St. Spencerville, Ontario

KOE 1X0

We are prepared to update this Council commitment, if required, as the present Township Council continues to support both the project scope and our financial contribution.

Your letter also outlines the anticipated submission requirements which may be required.

We believe all pertinent submission requirements for the Spencerville project are available in the Kingston Office.

The full details for the Spencerville project have been assembled as a result of our work with Peter Siemonsen, who has been extremely helpful during the past four years through his numerous local meetings and suggestions as we worked with Union Gas to prepare our Joint Submission under the previous Ontario Natural Gas Grant Program.

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.

Sincerely

Pat Sayeau, Mayor

Township of Edwardsburgh Cardinal

TOWNSHIP OF EDWARDSBURGH CARDINAL

June 26, 2017

N - 21		
Moved By: Seconded By:		
WHEREAS Union Gas is the long-time franchise partner provi with the Township of Edwardsburgh/Cardinal under franchise more than twenty (20) years with the former Village of Cardina Township of Edwardsburgh; and	agreements da	ting back
WHEREAS Union gas has previously explored expansion projective new subscribers; and	der the previou	S
WHEREAS the Township of Edwardsburgh/Cardinal has suppapplication to the Ontario Energy Board (OEB) for changes to means of council resolutions and a presentation at the April 20	the regulatory	regime by
WHEREAS the OEB has ordered changes to the regulatory restimulate and enable the expansion and extension of natural grural Ontario; and		
WHEREAS the Ontario Provincial government has announced funding to assist with the capital cost financing of expansion pand		
WHEREAS access to natural gas infrastructure is limited in pa Edwardsburgh/Cardinal and increased access will provided me energy; and		
Carried Defeated Unanimous Mayor:		
RECORDED VOTE REQUESTED BY:		
NAME	YEA	NAY
Councillor M. Barrett		
Councillor G. Morrell		
Councillor K. Smail		
Deputy Mayor P. Taylor		The state of the s
Mayor Sayeau		
TOTAL		
		The oracles are a second of the second of th

TOWNSHIP OF EDWARDSBURGH CARDINAL

Resolution Number: 2017_

Moved By: _____ Seconded By: ____ June 26, 2017

WHEREAS expanding access to natural gas within the Towns Edwardsburgh/Cardinal is a key strategic priority supported by								
WHEREAS access to natural gas for residents, farms and bus economic advantage; and	iness will provi	ide an						
WHEREAS natural gas access can provide residents on higher-emitting fuels with a lower carbon energy source that will help reduce greenhouse gas emissions;								
THEREFORE BE IT RESOLVED THAT the Council of the Township of Edwardsburgh/Cardinal formally support an application submitted by Union Gas to the Government of Ontario, for a grant from the provincial Natural Gas Grant Program, to expand the natural gas infrastructure system to service unserved areas of Spencerville and within the Township of Edwardsburgh/Cardinal; and further								
THAT Council of the Township of Edwardsburgh/Cardinal supposed project in an amount equivalent that would be recovered on the new natural gas infrastructure year period as per the natural gas grant program requirements	lent to the pro for a minimum	perty tax						
Ontario's Natural Gas Grant Program Premier of Ontario, Onta	THAT a copy of this resolution be forwarded along with the Union Gas application to Ontario's Natural Gas Grant Program Premier of Ontario, Ontario Minister of Energy, Ontario Energy Board, Union Gas, and the Township of Augusta.							
Carried Defeated Unanimous Mayor:								
RECORDED VOTE REQUESTED BY:								
NAME V	YEA	NAY						
Councillor M. Barrett								
Councillor G. Morrell								
Councillor K. Smail								
Deputy Mayor P. Taylor								
Mayor Sayeau								
TOTAL								



June 17th, 2020

Luke Skaarup, Director Northern Region Operations Enbridge Gas Inc. 36 Charles St. North Bay, Ont. P1B 8K7 By Purolator & Email

RE: Township of Augusta: Natural Gas Extension/Expansion Project

Dear Mr. Skaarup;

On March 4, 2020, the Township of Augusta re-submitted its support for the Extension/Expansion Project (prepared by our former franchise partner Union Gas) to your office in response to your Feb 24, 2020, request for submissions (copy enclosed). We understand that Enbridge Gas has, or will soon be, submitting project proposals to the Ontario Energy Board for their assessment prior to sending a report on future expansion projects to the Minister of Energy, Northern Development and Mines in October. I would like to formally express our support to have the Township of Augusta expansion project included on Enbridge Gas' list of projects being proposed to the Ontario Energy Board.

The Augusta portion of the project calls for extension/expansion of natural g service to a section of & a section	
Edwardsburgh-Cardinal Township (EC) Line.	
We are pleased to have worked with the Township of Edwardsburgh-Cardinon the and Augusta Township section of the procession of the procession of the section	posed n the to the s. In and oft and is



regard. So, in fact, the proposed expansion of natural gas service on has the likelihood of benefiting all three municipalities.

We also have worked with EC to conduct an Expression of Interest Survey of all residences and businesses along the proposed new route to be serviced. On May 21st, 2020 our staff distributed door-to-door some 430 Information Packages and Expression of Interest Forms (enclosed) and where possible spoke to the residents about the project submission, asking that the Expression of Interest Forms be returned to the Township Office. Feedback I have personally received as Mayor has been that survey forms were not received because past efforts have failed and they doubted that the project would gain final approval. That skepticism along with the tight timeframe for responding was no doubt a factor on return rates.

We believe that more customers will be attracted and interested in switching to Natural Gas once the project is finally approved and under construction and your sales team can provide connection cost details.

Finally, on June 15th, 2020 Augusta Township Council passed a motion (enclosed) that: reaffirms Council's support of the Enbridge Gas application for the natural gas expansion/extension project for the two suggested lines under municipal jurisdiction addressed by the proposal in the Township of Augusta; reaffirms the Township will make a financial contribution to the natural gas expansion project that is approved by the Ontario Energy Board. The contribution will be, equivalent to the property tax that would be recovered on the new natural gas infrastructure being built for a period of 10 years beginning from the time that property taxes first become due; and that this resolution be forwarded to Enbridge to be included with the application to the Ontario Energy Board and MPP Clark.



I wish to thank Enbridge Gas for its efforts in submitting our expansion projects to the Ontario Energy Board and the Ministry of Energy, Northern Development and Mines with whom we have already held several meetings in previous years and as recently as this past January. A positive result promises to benefit three neighbouring municipalities in this region.

Sincerely,

Doug madela Doug Malanka, Mayor Township of Augusta

Enclosed:

March 4, 2020 Letter to Mr. Skaarup; Information Packages and Expression of Interest Forms; Resolution passed by Council on June 15, 2020 90 Expression of Interest Forms

Sonia Fazari CC. Hon Steve Clark, MPP Mayor Doug Malanka

TOWNSHIP OF AUGUSTA

Moved By: Councillor Bowman		Date: June 15, 2020						
Seconded By: Jeff Shaver		Resolution No //a						
WHEREAS on June 26, 2017 the previous Expansion Project; and	Council expressed	their support for the Natural Gas						
WHEREAS in 2020, Augusta Township hadditional line request; and	as worked with Edwa	ardsburgh Cardinal to include an						
WHEREAS the submission request now i include and adjoining road Cardinal township as an additional comport and	ds up to and in <u>cludi</u>							
WHEREAS an Express of Interest (EOI) su and	urvey was delivered t	to residents in the affected areas;						
WHEREAS 89 EOI surveys were submitted	to the Township; and	Ė						
WHEREAS the current Council is desirous t	o reaffirm the municip	palities support; and						
BE IT RESOLVED THAT Council Supports expansion/extension project for the two sugathe proposal in the Township of Augusta.								
BE IT FURTHER RESOLVED THAT Council reaffirms the Township will make a financial contribution to the natural gas expansion project that is approved by the Ontario Energy Board. The contribution will be, equivalent to the property tax that would be recovered on the new natural gas infrastructure being built for a period of 10 years beginning from the time that property taxes first become due; and								
THAT this resolution be forwarded to Enbrid Energy Board and MPP Clark.	lge to be included wit	th the application to the Ontario						
RECORDED VOTE:								
	FOR	AGAINST						
Councillor Bowman		<u></u>						
Councillor Henry	<u>_</u>							
Mayor Malanka	1							
Councillor Schapelhouman	<u> </u>							
Deputy Mayor Shaver								
CARRIED (Mayor	DEFEATED	Mayor						
Declaration of pecuniary interest by:								
Nature of interest:								
□ Disclosed His/Her/Their Interest □ Vacated His/Her/Their Seat □ Abstained from discussion & did not vote on	the question							



E-mail: mail@twpec.ca

P.O. Box 129, 18 Centre St. Spencerville, Ontario KOE 1XO

June 9, 2020

Luke Skaarup, Director Northern Region Operations Enbridge Gas Inc. 36 Charles St., North Bay, Ont., P1B 8K7

By Purolator & Email

RE: Township of Edwardsburgh Cardinal: Natural Gas Extension/Expansion Project

Dear Mr. Skaarup;

On March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Cardinal re-submitted our support for the "March 2, 2020 the Township of Edwardsburgh Card re-submitted our support for the "March 2, 2020 the Township our support for the "March 2, 2020 the Township our support for the "March 2, 2020 the Township our support for the "March 2, 2020 the Township our support for the Township our support for the "March 2, 2020 the Township our support for the "March 2, 2020 the Township our support for the "March 2, 2020 the Township our support for the Township our support for the Township our support

We understand that Enbridge Gas has, or will soon be, submitting project proposals to the Ontario Energy Board for their assessment prior to sending a report on future expansion projects to the Minister of Energy, Northern Development and Mines in October. I would like to formally express our support to have the Township of Edwardsburgh Cardinal "Spencerville" expansion project included on Enbridge Gas' list of projects being proposed to the Ontario Energy Board.

The To	Township Edwardsburgh Cardinal "	pencerville" project consists of two
compo	oonents that will:	
1.	. Fill-in the service gap on	
	on; and	
2.	. Bring natural gas service to the Village of Spencerv	ville via a new line from

We are pleased to have worked with Augusta Township on the section of our project which passes through Augusta and to support the Augusta residents living on and the adjoining roads. Many of the Augusta residents have submitted Expressions of Interest directly to the Augusta Township office and Mayor Malanka.



E-mail: mail@twpec.ca

P.O. Box 129, 18 Centre St. Spencerville, Ontario K0E 1X0

As a result of our previous work with Union Gas we know that the Engineering Design and Preliminary Cost Estimates for our two-component project have been completed and are believed to be current. All details on file at the Kingston office.

We have worked with Augusta Township to conduct an Expression of Interest Survey of all the residences and businesses along the new route to be serviced. During the period of May 14-22 our councillors and volunteers distributed door-to-door some 430 Information Packages and Expression of Interest Forms and where possible spoke to the residents about the project submission, asking that the Expression of Interest Forms be returned to the Township Office. While our volunteers were greeted with enthusiasm and eagerness at most doors, many others expressed doubts and reservations that the project would gain final approval with the result that skepticism was our most serious obstacle to a higher form return rate.

We believe that more customers will be attracted and interested in switching to Natural Gas once the project is finally approved and under construction and your sales team can provide connection cost details.

We look forward to having the Township of Edwardsburgh Cardinal "Manual And Spencerville" expansion project submitted to the Ontario Energy Board and then to the Ministry of Energy, Northern Development and Mines with whom we have already held several meetings in previous years and as recently as this past January.

We believe that we have built considerable support in all quarters for the "Spencerville" expansion project.

Yours truly

Patrick Sayeau, Mayor

Township of Edwardsburgh Cardinal

Cc: Sonia Fazari

Hon Steve Clark, MPP Mayor Doug Malanka

Enclosed: March 2, 2020 Letter to Mr. Skaarup



E-mail: mail@twpec.ca

P.O. Box 129, 18 Centre St. Spencerville, Ontario KGE 1X0

March 2, 2020

Luke Skaarup
Director, Northern Region Operations
Enbridge Gas Inc.
36 Charles St.
North Bay, ON
P1B 8K7

RE: Natural Gas Expansion Program Update

Dear Mr. Skaarup,

Thank you for your letter dated February 24, 2020 concerning the December 2019 Government of Ontario announcement with respect to the next steps in the Ontario natural gas expansion/extension program.

The Township of Edwardsburgh Cardinal has been following this program closely and we have been working for the past four years with our previous franchise partner, Union Gas, to extend natural gas services to our residents on and in the Village of Spencerville (Spencerville project).

We are pleased to note that the Government of Ontario has 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 Township 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 Edwardsburgh Cardinal, I would like to formally express our interest to have the Spencerville Project 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 draft guidelines issued by the OEB (EB-2019-0255) we are aware that Enbridge Gas may be required to include support for our proposed project. Please find enclosed our Council Resolution No: 2017-208, passed on June 26, 2017, wherein our Council agrees to making a financial contribution towards the proposed project in an amount equivalent to the property tax that would be recovered on the new natural gas infrastructure for a minimum of a ten (10) year period.

CORPORATION OF	THE	TOW	NSF	IIP OF	EDWAR	RDSB	URGH	CARDINAL
	Van	Can	Got	There	From H	010	BUCHARRATUR	



18 Centre St. Spencerville, Ontario E-mail: mail@twpec.ca

P.O. Box 129,

KOE 1X0

We are prepared to update this Council commitment, if required, as the present Township Council continues to support both the project scope and our financial contribution.

Your letter also outlines the anticipated submission requirements which may be required.

We believe all pertinent submission requirements for the 'Spencerville project are available in the Kingston Office.

The full details for the Spencerville project have been assembled as a result of our work with Peter Siemonsen, who has been extremely helpful during the past four years through his numerous local meetings and suggestions as we worked with Union Gas to prepare our Joint Submission under the previous Ontario Natural Gas Grant Program.

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.

Pat Sayeau, Mayor

Township of Edwardsburgh Cardinal

TOWNSHIP OF EDWARDSBURGH CARDINAL

Resolution Number, 2017 20%

Moved By:
Seconded By:

June 26, 2017

·/- /			
WHEREAS Union Gas is the long-time franchise partner provide with the Township of Edwardsburgh/Cardinal under franchise a more than twenty (20) years with the former Village of Cardina Township of Edwardsburgh; and	agreements da	iting back	
WHEREAS Union gas has previously explored expansion projection and found them to lack public acceptance unregulatory regime which required exorbitant up-front contribution prospective new subscribers; and	der the previou	IS	
WHEREAS the Township of Edwardsburgh/Cardinal has supp application to the Ontario Energy Board (OEB) for changes to means of council resolutions and a presentation at the April 20	the regulatory	regime by	
WHEREAS the OEB has ordered changes to the regulatory re stimulate and enable the expansion and extension of natural g rural Ontario; and			
WHEREAS the Ontario Provincial government has announced funding to assist with the capital cost financing of expansion prand			
WHEREAS access to natural gas infrastructure is limited in pa Edwardsburgh/Cardinal and increased access will provided me energy; and			
Carried Defeated Unanimous			
Mayor:			
RECORDED VOTE REQUESTED BY:			
NAME	YEA	NAY	
Councillor M. Barrett			
Councillor G. Morrell			
Deputy Mayor P. Taylor	Councillor K. Smail		
Mayor Sayeau			
TOTAL			

TOWNSHIP OF EDWARDSBURGH CARDINAL

Resolution Number: 2017_

Seconded By:

June 26, 2017

WHEREAS access to natural gas for residents, farms and business will provide an economic advantage; and WHEREAS natural gas access can provide residents on higher-emitting fuels with a lower carbon energy source that will help reduce greenhouse gas emissions;	
lower carbon energy source that will help reduce greenhouse gas emissions;	
THE PERSON OF THE PERSON WERE THE PERSON OF	1
THEREFORE BE IT RESOLVED THAT the Council of the Township of Edwardsburgh/Cardinal formally support an application submitted by Union Gas to t Government of Ontario, for a grant from the provincial Natural Gas Grant Program, expand the natural gas infrastructure system to service unserved areas of Spencer and (Spencer and (Spencer)) within the Township of Edwardsburgh/Cardinal; and further	to
THAT Council of the Township of Edwardsburgh/Cardinal supports making a finance contribution towards the proposed project in an amount equivalent to the property to that would be recovered on the new natural gas infrastructure for a minimum ten (10 year period as per the natural gas grant program requirements; and further	ax
THAT a copy of this resolution be forwarded along with the Union Gas application to Ontario's Natural Gas Grant Program Premier of Ontario, Ontario Minister of Energy Ontario Energy Board, Union Gas, and the Township of Augusta.	
Carried Defeated Unanimous Mayor:	
RECORDED VOTE REQUESTED BY:	
NAME YEA N.	AY
Councillor M. Barrett	
Councillor G. Morrell	***************************************
Councillor K. Small	
Deputy Mayor P. Taylor	Description of the second
Mayor Sayeau	
TOTAL	uma emininggapapapapapan helio

Schedule LL6 Enbridge Gas Community Expansion Project Proposal

Edwardsburgh Cardinal - _____ and Spencerville

EB-2007-0768

Certificate of Public Convenience and Necessity

The Ontario Energy Board hereby grants

Union Gas Distribution Inc.

approval under section 8 of the *Municipal Franchises Act*, R.S.O. 1990, c. M.55, as amended, to construct works to supply gas to the

Township of Edwardsburgh/Cardinal

This certificate replaces the certificates or portions of certificates associated with the former entities that are now within the Township of Edwardsburgh/Cardinal.

DATED at Toronto, December 17, 2007

ONTARIO ENERGY BOARD

Original signed by

Neil McKay Manager, Facilities Applications

ONTARIO ENERGY BOARD

IN THE MATTER OF The Municipal Franchises Act, R.S.O. 1960, Chapter 255, Section 8 and amendments thereto;

EB-2019-0255 Schedule LL6(b)

- 0 -00

AND IN THE MATTER OF an Application by Northern and Central Gas Corporation Limited for a certificate of public convenience and necessity to construct works to supply gas and to supply gas to the inhabitants of the Township of Augusta.

BEFORE:

A. R. CROZIER, Chairman

) WEDNESDAY, the 14th

A. B. JACKSON, Vice-Chairman
) day of May, 1969.

I. C. MacNABB, Vice-Chairman
)

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

UPON THE APPLICATION of Northern and Central Gas
Corporation Limited, hereinafter referred to as the "Applicant"
for a Certificate pursuant to the provisions of The Municipal
Franchises Act, R.S.O. 1960, Chapter 255, Section 8 and amendments
thereto, after notice being duly given to the parties interested
as directed by the Board and the matter coming on for hearing
before the Board on the 14th day of May, 1969, at the offices of
the Board in Toronto, Ontario, in the presence of Counsel for the
applicant, no-one appearing for the Township, and upon hearing
read the application and the proof of service thereof and upon
hearing the evidence adduced and upon hearing Counsel aforesaid;

- 1. THIS BOARD DOTH ORDER that a Certificate of public convenience and necessity be and the same is hereby granted to Northern and Central Gas Corporation Limited for the supply of natural gas to the inhabitants of the Township of Augusta and for the construction of the works necessary therefor;
- 2. AND THIS BOARD DOTH FURTHER ORDER that the Certificate of Public Convenience and Necessity (F.B.C. No. 113) granted to Augusta Natural Gas Limited be withdrawn in accordance with a letter of consent to such withdrawal received by the Board from Augusta Natural Gas Limited and dated May 13th, 1969.
- 3. AND THIS BOARD DOTH FURTHER ORDER that the Certificate of Public Convenience and Necessity (F.B.C. No. 296) granted to Lakeland Natural Gas Limited be merged with the Certificate of Public Convenience and Necessity herewith granted.

- 4. AND THIS BOARD DOTH FURTHER ORDER that the Certificate of Public Convenience and Necessity herewith granted shall have effect from the 1st day of April, 1969.
- 5. AND THIS BOARD DOTH FURTHER ORDER that the Certificate of Public Convenience and Necessity hereby granted may be assigned by Northern and Central Gas Corporation Limited to Montreal Trust Company, the trustee under the deed of trust and mortgage, dated as of June 1, 1958 as amended, made between Northern and Central Gas Corporation Limited and Montreal Trust Company, as trustee and to such person, firm or corporation to whom Montreal Trust Company, as trustee, may assign such Certificate in execution of the trusts under the said deed of trust and mortgage, together with, in each case, all rights and powers, statutory or otherwise, which flow from or are evidenced by such Certificate.
- 6. AND THIS BOARD DOTH FURTHER ORDER that the costs of this hearing are fixed at \$50.00 and shall be paid forthwith by the Applicant to the Board.

DATED at Toronto, this 23th day of June, 1969.

ONTARIO ENERGY BOARD

Secretary

ONTARIO ENERGY BOARD

IN THE MATTER OF The Municipal Franchises Act, R.S.O. 1960, Chapter . 255, Section 8 and amendments thereto;

AND IN THE MATTER OF an Application by Northern and Central Gas Corporation Limited for a certificateof public convenience and necessity to construct works to supply gas and to supply gas to the inhabitants of the Township of Augusta.

CERTIFICATE

Northern and Central Gas Corporation Limited, 4600 Toronto-Dominion Centre, Toronto, Ontario.

Schedule MM Enbridge Gas Community Expansion Project Proposal

Forest Harbour (Tay Township)

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

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

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
	IVA
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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.
	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.
	N/A

ownship. The proposed facilination as the nearest existing gas infrastroposed project will tie-in to a stallation of approximately 2. to the Forest Harbour commutersection of a prest Harbour. The proposed,,,,,	serve the community of ties will provide access commercial / institution structure is in the community of existing NPS 8 steel > 5 km of NPS 4 steel XH unity. A station is propound to red distribution network inc	Forest Harbour located within T to natural gas to a forecasted 1 al and 4 industrial). unity of Waubaushene. The KHP pipeline and include the IP pipe to cross the watercourse sed to be installed at the uce pressure for distribution to cludes (ending at					
ownship. The proposed facilination of approximately 2. to the Forest Harbour commutersection of,	ties will provide access commercial / institution structure is in the commen existing NPS 8 steel > 5 km of NPS 4 steel XH unity. A station is propored to red distribution network income,,	to natural gas to a forecasted 1 al and 4 industrial). unity of Waubaushene. The KHP pipeline and include the IP pipe to cross the watercourse sed to be installed at the uce pressure for distribution to cludes (ending at					
roposed project will tie-in to a stallation of approximately 2. to the Forest Harbour commutersection of a prest Harbour. The proposed),,	n existing NPS 8 steel > 5 km of NPS 4 steel XH unity. A station is propo nd to red d distribution network inc	KHP pipeline and include the IP pipe to cross the watercourse sed to be installed at the uce pressure for distribution to cludes (ending at					
	,						
,							
		•					
		required: Length (m)					
	, ,	2500					
The approximate length and size of the distribution pipelines required:							
	· · ·	Length (m)					
		10,500 10,600					
		11,300					
h	Pipe Type Steel Pipe Type Pipe Type Polyethylene Polyethylene Polyethylene Polyethylene	Steel 4 The approximate length and size of the distribution pipe Pipe Type Diameter (NPS) Polyethylene 2 Polyethylene 4					

Please refer to Schedule MM2, 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 MM2, Table 3.3.
3.4	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.
	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.
	Please refer to Schedule MM3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule MM4 for Proposed Construction Schedule.
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.
	Please refer to Schedule MM5.

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.

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.

Please refer to Schedule MM6 for Enbridge's CPCN for the Township of Tay (EB-2018-0127) which covers the entire area of the proposed project.

Part IV – Cost of Project

4.1 Confirm that the proposed project includes a ten-year rate stability period.

The proposed project does include a ten-year rate stability period.

4.2 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).

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).

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.

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.

Please refer to Schedule MM2, Table 4.2.

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule MM2, Table 4.3.

Part \	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project. \$16,551,839
	Please refer to Schedule MM2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project. \$84,448 Please refer to Schedule MM2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project. \$17.84 Please refer to Schedule MM2, Table 5.3.

Part VI – Distribution Charge

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.

Provide a confirmation that there would be no material crosssubsidization between rate classes.

Please refer to Schedule MM2, Table 6.1.

Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part VII - Profitability Index / Benefit to Cost Ratio

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.

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).

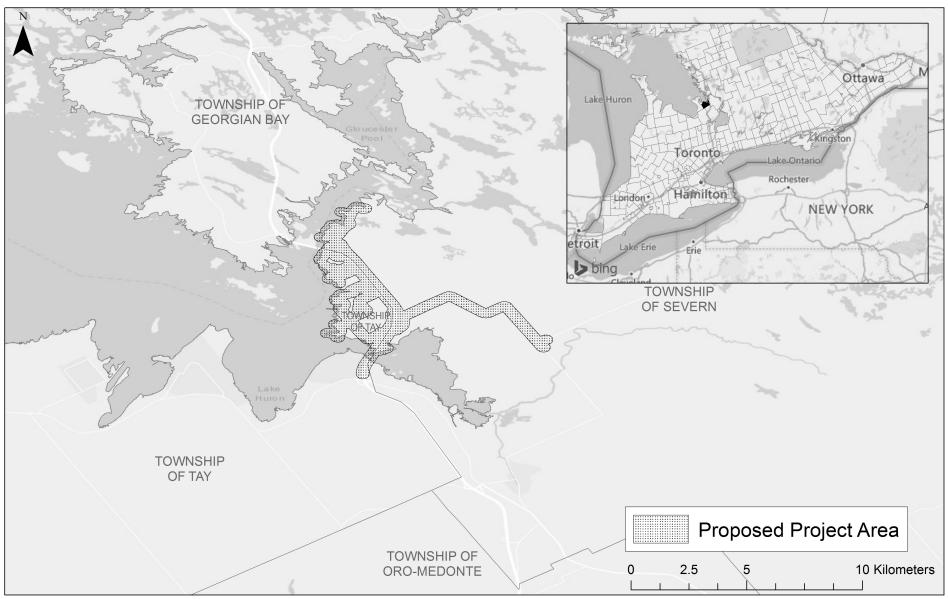
Please refer to Schedule MM2, Table 7.1.

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.

Please refer to Schedule MM2, Table 7.2.

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). • Leave to Construct
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. Please refer to Schedule MM4.

Schedule MM1 Enbridge Gas Community Expansion Project Proposal





Schedule MM2 Enbridge Gas Community Expansion Project Proposal

ommunity Expansion	Forest Harbour (Tay Township) InService Date: Nov-01-2023												EB-2019-02 Schedule M Redacted	
Table 3.2 - Custome	er Attachments Over The Rate Stability Period Customer Type Residential Commercial Institutional	Firm / IT Firm Firm Firm Firm	Project Year	1 45 -	2 40 16	3 15 6	4 11 2	5 8 2	6 10 -	7 9	8 10 -	<u>9</u> 9 -	10 8 -	<u>Total</u> 165 26
	Agricultural Industrial Total Customers	Firm Firm	_	- - <u>45</u>	1 2 <u>59</u>	1 22	- 1 <u>14</u>	- - <u>10</u>	- - <u>10</u>	- - <u>9</u>	- - <u>10</u>	- - <u>9</u>	- - <u>8</u>	1 4 <u>196</u>
	Cumulative Customers			45	104	126	140	150	160	169	179	188	196	
Table 3.3 - Annual a	and Cumulative Volumes Over The Rate Stability	Period (m3)												
	Customer Type Residential Commercial Institutional Agricultural		Project Year	54,000 - -	2 156,000 42,100 - 5,000	222,000 100,300 - 10,000	253,200 120,100 - 10,000	276,000 127,500 - 10,000	297,600 131,200 - 10,000	- m3 7 320,400 131,200 - 10,000	343,200 131,200 - 10,000	366,000 131,200 - 10,000	386,400 131,200 - 10,000	Total 2,674,800 1,046,000 - 85,000
	Industrial Total Volumes			<u>-</u> <u>54,000</u>	100,000 <u>303,100</u>	250,000 <u>582,300</u>	350,000 <u>733,300</u>	400,000 <u>813,500</u>	400,000 <u>838,800</u>	400,000 <u>861,600</u>	400,000 <u>884,400</u>	400,000 <u>907,200</u>	400,000 <u>927,600</u>	3,100,000 <u>6,905,800</u>
	Customer Type Residential		Project Year	<u>1</u> 54,000	2 210,000	3 432,000	4 685,200	Cumu <u>5</u> 961,200	lative Volume 6 1,258,800	es - m3 7 1,579,200	<u>8</u> 1,922,400	9 2,288,400	10 2,674,800	
	Commercial Institutional Agricultural Industrial Total Volumes			- - - - 54,000	42,100 - 5,000 100,000 <u>357,100</u>	142,400 - 15,000 350,000 <u>939,400</u>	262,500 - 25,000 700,000 1,672,700	390,000 - 35,000 1,100,000 2,486,200	521,200 - 45,000 1,500,000 3,325,000	652,400 - 55,000 1,900,000 <u>4,186,600</u>	783,600 - 65,000 2,300,000 <u>5,071,000</u>	914,800 - 75,000 2,700,000 <u>5,978,200</u>	1,046,000 - 85,000 3,100,000 <u>6,905,800</u>	
Table 4.2 - Total Ca	pital Costs At End Of The Rate Stability Period													
	Total Capital Costs			Year 10										
Table 4.3 - Revenue	Requirement Over The Rate Stability Period													
	Revenue Requirement		Project Year	1	<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>
	Closing Rate Base (net of proposed Section 36.2	funding)		Year 10										

Forest Harbour (Tay Township)
InService Date: Nov-01-2023

EB-2019-0255 Schedule MM2 Redacted

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

\$ 16,551,839

<u>Year 10</u> 84,448

04,440

Year 10 17.84

y

Project Year	<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>
	\$ 9,462	43,051	76,588	91,985	100,794	105,721	109,716	113,711	117,706	121,281 \$	890,014
	12,420	69,713	133,929	168,659	187,105	192,924	198,168	203,412	208,656	213,348	1,588,334
	\$ 21,882	112,764	210,517	260,644	287,899	298,645	307,884	317,123	326,362	334,629 \$	2,478,348

Net Present Value







<u>1.00</u>

Community Expansion Forest Harbour (Tay Township) InService Date: Nov-01-2023

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

Gross Capital

Change in Working Capital Total Cash Outflow (D)

Net Present Value Cash Inflow Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A) Expenses: O&M Expense Municipal Tax Income Tax Total Expenses (B) Total Cash Inflow (C = A + B)Cash Outflow

Profitability Index (PI) Without Section 36.2 Funding (C / D)

EB-2019-0255 Schedule MM2 Redacted

Schedule MM3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Forest Harbour (Tay Township)

Total Forecasted Customers 196 Penetration Rate 65%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer ¹	Estimated Conversion Cost ²	(existing filel)	Estimated Annual Energy Costs (natural gas)		Estimated Annual Savings		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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	41	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 64,611	7.2	-2.7	295	(110)
Electricity F/A	18	9%						0.6			
Electricity Baseboard	24	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 16,616	0.6	3.9	14	92
Propane	86	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 24,434	5.6	-1.1	. 482	(94)
Wood	18	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	10	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	196	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 118,122	13.9	4.1	801	(43)

1 Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specially, 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)

	Ra	ate 1 (Community Expansio	on, 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 montly average EDPRO residential rates for Zone 4 (March 2020)

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

Schedule MM4 Enbridge Gas Community Expansion Project Proposal

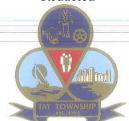
Forest Harbour (Tay Township) Community Expansion Project Pipeline Construction Schedule

Task Nama	2022								2023								2024																						
Task Name	Jan	Fel	b M	ar A	.pr N	Лау	Jun	Jul	Aug	Sep	о Ос	t No	ov De	c Ja	ın Fe	b Ma	ar Ap	r Ma	y Jui	n Ju	al A	ug S	ер	Oct	Nov	Dec	Jan	Feb	Ma	r Apı	r Ma	y Ju	n J	ul A	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																							
Permits & Approvals												F																											
Leave to Construct Application and Approval																			•																				
Pre-Construction, Construction and Testing														ı																									
In Service																																							

Schedule MM5 Enbridge Gas Community Expansion Project Proposal

TAY TOWNSHIP

450 Park Street PO Box 100 Victoria Harbour, Ontario LOK 2A0



March 2, 2020

Biké Balkanci Director, GTA West / Niagara Enbridge Gas Inc. via email c/o brenda1.dobrindt@enbridge.com

Dear Biké Balkanci,

Expression of Support for Natural Gas Expansion to the Township of Tay FOREST HARBOUR

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 Tay, I would like to formally express our interest to have Forest Harbour (

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. I note for clarity that the Township has nominated two projects and is providing a separate letter for each project.

Based on the draft Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may be required to 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 local 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.

TAY TOWNSHIP

450 Park Street PO Box 100 Victoria Harbour, Ontario LOK 2A0



Sincerely,

Mayor Ted Walker Township of Tay

705-534-7248 x258

twalker@tay.ca

Copy:

Mark Wilson, Enbridge

Peter Dance, Director of Public Works

Schedule MM6 Enbridge Gas Community Expansion Project Proposal

EB-2018-0127

Certificate of Public Convenience and Necessity

The Ontario Energy Board grants

Enbridge Gas Distribution Inc.

approval under section 8 of the *Municipal Franchises Act,* R.S.O. 1990, c. M.55, as amended, to construct works to supply gas to the

Township of Tay

as it is constituted on the date of this Decision and Order.

DATED at Toronto, April 26, 2018

ONTARIO ENERGY BOARD

Pascale Duguay
Manager, Application Policy and Climate Change

Schedule NN Enbridge Gas Community Expansion Project Proposal

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

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

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
	IV/A
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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.
	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.
	N/A

Part III – Description of and Support for Project 3.1 Provide a general overview of the project

Redacted

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 serve the community of Haldimand Shores in the Grafton area of the Township of Alnwick/Haldimand. The proposed facilities will provide access to natural gas to a forecasted 109 customers (108 residential and 1 commercial / institutional).

The proposed tie-in of the distribution system is located _____ of Grafton, near the intersection of _____ and ____ into the existing NPS 4 plastic 420 kPa system. This tie-in would bring gas from the existing system in Grafton into Haldimand Shores.

No station work is forecasted until approximately year 5, assuming expected loads materialize.

The distribution system within Haldimand Shores crosses 5 minor waterways / culverts and includes approximately 7.75 km of polyethylene pipe.

The approximate length and size of the distribution pipelines required:

Pipe Type	Diameter (NPS)	Length (m)
Polyethylene	2	7,250
Polyethylene	4	500

Please refer to Schedule NN1 for Project Map.

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 NN2, 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 NN2, Table 3.3.
3.4	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.
	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.
	Please refer to Schedule NN3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule NN4 for Proposed Construction Schedule.
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.
	Please refer to Schedule NN5.

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.

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.

Please refer to Schedule NN6 for Enbridge's CPCN for the Township of Alnwick/Haldimand (EB-2008-0088) which covers the entire area of the proposed project.

Part IV – Cost of Project

4.1 Confirm that the proposed project includes a ten-year rate stability period.

The proposed project does include a ten-year rate stability period.

4.2 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).

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).

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.

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.

Please refer to Schedule NN2, Table 4.2.

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule NN2, Table 4.3.

Part \	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$2,827,923
	Please refer to Schedule NN2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$25,944
	Please refer to Schedule NN2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$12.13
	Please refer to Schedule NN2, Table 5.3.

Part VI – Distribution Charge

6.1 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.

Provide a confirmation that there would be no material crosssubsidization between rate classes.

Please refer to Schedule NN2, Table 6.1.

Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part VII - Profitability Index / Benefit to Cost Ratio

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.

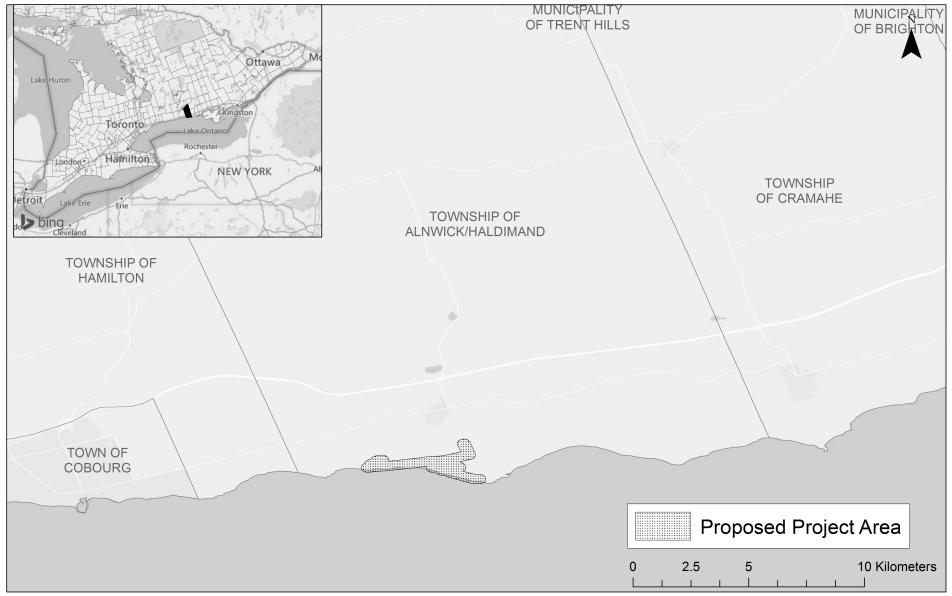
The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a "portfolio" of projects).

Please refer to Schedule NN2, Table 7.1

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.

Please refer to Schedule NN2, Table 7.2.

Schedule NN1 Enbridge Gas Community Expansion Project Proposal





Schedule NN2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Haldimand Shores

InService Date: Nov-01-2022

Table 3.2 - Customer	Attachments Ove	er The Rate Stability	Period
----------------------	-----------------	-----------------------	--------

Customer Type	Firm / I
Residential	Firm
Commercial	Firm
Institutional	Firm
Agricultural	Firm
Industrial	Firm
Total Customers	

Cumulative Customers

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

Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

Total Capital Costs

Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule NN2 Redacted

Project Year	1	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	8	<u>9</u>	<u>10</u>	<u>Total</u>
	29	26	10	7	5	7	6	6	6	6	108
	-	1	-	-	-	-	-	-	-	-	1
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
-	<u>29</u>	<u>27</u>	<u>10</u>	7	<u> </u>	<u> </u>	<u>-</u> <u>6</u>	- 6	- 6	- 6	<u>109</u>
	<u>29</u>	<u>21</u>	<u>10</u>	<u>7</u>	<u> </u>	<u></u>	<u>u</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>109</u>
	29	56	66	73	78	85	91	97	103	109	
					Annual '	Volumes - m3					
Project Year	<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>
	31,900	92,400	132,000	150,700	163,900	177,100	191,400	204,600	217,800	231,000	1,592,800
	-	1,100	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	18,700
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
	<u>31,900</u>	<u>93,500</u>	<u>134,200</u>	<u>152,900</u>	<u>166,100</u>	<u>179,300</u>	<u>193,600</u>	<u>206,800</u>	<u>220,000</u>	<u>233,200</u>	<u>1,611,500</u>
					Cumulativ	re Volumes - m	3				
Project Year	1	<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>	
	31,900	124,300	256,300	407,000	570,900	748,000	939,400	1,144,000	1,361,800	1,592,800	
	-	1,100	3,300	5,500	7,700	9,900	12,100	14,300	16,500	18,700	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
_	-		-		-	-			-		
_	<u>31,900</u>	<u>125,400</u>	<u>259,600</u>	<u>412,500</u>	<u>578,600</u>	<u>757,900</u>	<u>951,500</u>	<u>1,158,300</u>	<u>1,378,300</u>	<u>1,611,500</u>	







Community Expansion Haldimand Shores

InService Date: Nov-01-2022

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue

SES Revenue

Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

EB-2019-0255 Schedule NN2 Redacted

\$ 2,827,923

<u>Year 10</u> 25,944

Year 10 12.13

Project Year Total 6,718 19,691 32,201 40,773 46,333 49,112 \$ 339,386 28,263 34,981 37,761 43,553 7,337 21,505 30,866 35,167 38,203 41,239 44,528 47,564 50,600 53,636 370,645 14,055 41,196 59,129 67,368 73,184 79,000 85,301 91,117 96,933 <u>102,748</u> \$ 710,031

Net Present Value







<u>1.00</u>

InService Date: Nov-01-2022

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

Net Present Value





Page 3 of 3

EB-2019-0255 Schedule NN2 Redacted

Schedule NN3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Haldimand Shores

Total Forecasted Customers 109 Penetration Rate 78%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer ¹	Estimated Conversion Cost ²	(existing file)	Estimated Annual Energy Costs (natural gas)		Estimated Annual Savings	GHG per customer Existing Fuel	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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	20	19%			-			6.6			(50)
Electricity F/A	7	6%			-	· ·					24
Electricity Baseboard	3	3%			\$ 1,495						12
Propane	68	63%	-	·	-		· ·				` '
Wood	7	6%		N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	3	3%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	109	100%	\$ 31,100	\$ 8,395	\$ 5,981	\$ 2,414	\$ 39,466	12.7	3.8	487	(80)

¹ Based on completed Market Research for this community. 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	e 01 (Community Expansion	on. Non-FN)						
	Consumption Equivale	,,	Price per Unit						
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.680				
Heating oil	L	2397	Heating oil	\$/L	1.163				
Electricity	kWh	17778	Electricity	\$/kWh	0.112				
Propane	L	3309	Propane	\$/L	0.487				

Notes

Gas prices correspond to EGI (Union Gas North East) 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 are currently unavailable for the Union North Rate zones.

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

Schedule NN4 Enbridge Gas Community Expansion Project Proposal

Haldimand Shores Community Expansion Project Pipeline Construction Schedule

Task Namo		2021										2022										2023													
Task Name		Feb	Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov [ec .	Jan Fe	b Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	/ Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																			
Permits & Approvals																																			
Leave to Construct Application and Approval												-																							
Pre-Construction, Construction and Testing																																			
In Service																																			

Schedule NN5 Enbridge Gas Community Expansion Project Proposal

Haldimand Shores (Grafton)



May 8th, 2020

Enbridge Gas Inc.

Attn: Luke Skaarup, Director, Northern Region Operations 36 Charles Street North Bay, ON P1B 8K7

Dear Mr. Skaarup,

Re: Expression of Support for Natural Gas Expansion to the Township of Alnwick/Haldimand/Haldimand Shores

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 Alnwick/Haldimand, I would like to formally express our interest to have Haldimand Shores 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 draft Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may be required to 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.

Sincerely,

Alexandra Smith Deputy Clerk

Dmith

Township of Alnwick/Haldimand

905-349-2822 ext. 25

asmith@ahtwp.ca

Schedule NN6 Enbridge Gas Community Expansion Project Proposal

Haldimand Shores (Grafton)

EB-2008-0088

Certificate of Public Convenience and Necessity

The Ontario Energy Board hereby grants

Union Gas Limited

approval under section 8 of the *Municipal Franchises Act*, R.S.O. 1990, c. M.55, as amended, to construct works to supply gas to the

Township of Alnwick/Haldimand

This Certificate of Public Convenience and Necessity replaces Certificate F.B.C. 209 for the former Township of Haldimand.

DATED at Toronto, May 30, 2008 **ONTARIO ENERGY BOARD**

Original Signed By

Neil McKay Manager, Facilities Applications

Schedule OO Enbridge Gas Community Expansion Project Proposal

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

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

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
	IV/A
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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.
	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.
	N/A

Part III – Description of and Support for Project Provide a general overview of the project, which is to include the Redacted 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 serve the Township of Hornepayne. The proposed facilities will provide access to natural gas to a forecasted 346 customers (302 residential, 33 commercial / institutional and 11 industrial). The proposed tie-in point will be near the intersection of _____ and __ connecting to an existing TC Energy pipeline. The proposed distribution pipeline will consist of 13,000 m of 2" polyethylene pipe, 7,250 m of 2" steel pipe, 1,600 m of 4" polyethylene pipe and 63,500 m of 4" steel pipe. The proposed distribution system will extend _____ directly along _____ for approximately 63.5 km to the Township of Hornepayne with potential customers attached along the way. In addition, parts of _____ and other nearby locations will be included in the project. No reinforcement required for the system. Two TC Energy stations are required near the tie-in point. The approximate length and size of the distribution pipelines required: Diameter (NPS) Pipe Type Length (m) Polyethylene 13.000 2 Steel 2 7,250 Polyethylene 4 1.600 4 Steel 63,500 Please refer to Schedule OO1 for Project Map. Provide the annual and cumulative forecast of the number of customer

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 OO2, 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 OO2, Table 3.3.
3.4	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.
	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.
	Please refer to Schedule OO3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule OO4 for Proposed Construction Schedule.
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.
	Please refer to Schedule OO5.

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.

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.

Enbridge Gas does not currently have a franchise agreement with nor a Certificate of Public Convenience and Necessity for the Township of Hornepayne. Enbridge Gas does have franchise agreements and CPCNs for adjacent municipalities including the Town of Hearst and the Municipality of Mattice – Val Côté.

Part IV – Cost of Project

4.1 Confirm that the proposed project includes a ten-year rate stability period.

The proposed project does include a ten-year rate stability period.

4.2 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).

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).

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.

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.

Please refer to Schedule OO2, Table 4.2.

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule OO2, Table 4.3.

Part \	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$49,847,482
	Please refer to Schedule OO2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$144,068
	Please refer to Schedule OO2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$26.47
	Please refer to Schedule OO2, Table 5.3.

Part VI – Distribution Charge

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.

Provide a confirmation that there would be no material crosssubsidization between rate classes.

Please refer to Schedule OO2, Table 6.1.

Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part VII – Profitability Index / Benefit to Cost Ratio

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.

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).

Please refer to Schedule OO2, Table 7.1.

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.

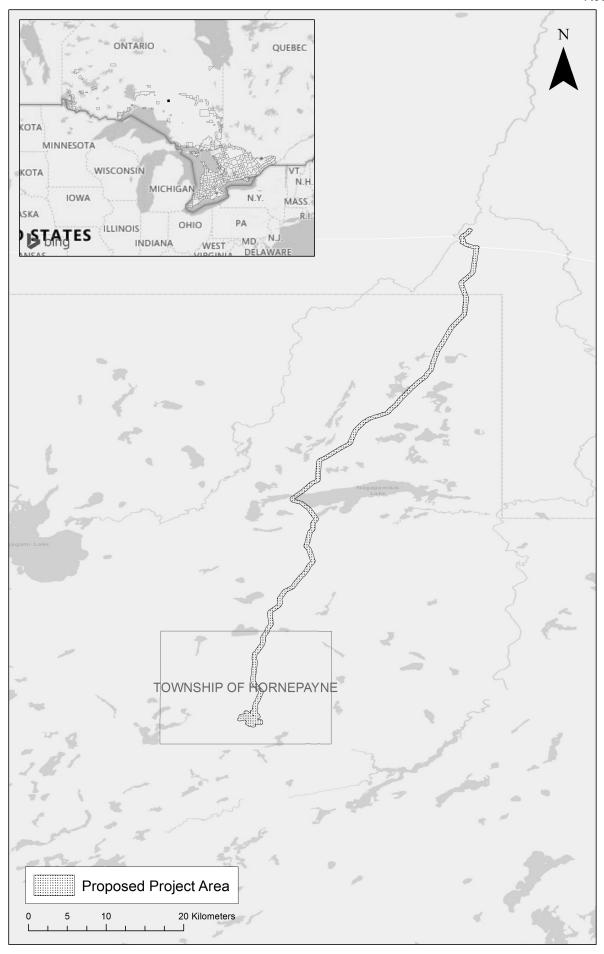
Please refer to Schedule OO2, Table 7.2.

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).
 - Leave to Construct
 - Franchise Agreement
 - Certificate of Public Convenience and Necessity
 - System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)
- 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.

Please refer to Schedule OO4.

Schedule OO1 Enbridge Gas Community Expansion Project Proposal





Schedule OO2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Hornepayne

InService Date: Nov-01-2023

Table 3.2 - Customer	Attachments Over	r The Rate Stabilit	y Period
----------------------	-------------------------	---------------------	----------

Customer Type	Firm / 17
Residential	Firm
Commercial	Firm
Institutional	Firm
Agricultural	Firm
Industrial	Firm
Total Customers	

Cumulative Customers

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

Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

Total Capital Costs

Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule OO2 Redacted

Project Year	<u>1</u>	<u>2</u>	<u>3</u> 47	<u>4</u> 24	<u>5</u> 24	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u> 10	<u>Total</u>
	90	67		24	24	10	10	10	10	10	302
	-	17	7	2	2	1	1	1	1	1	33
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
_		6	5	-			-		-	-	11
	<u>90</u>	<u>90</u>	<u>59</u>	<u>26</u>	<u>26</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>346</u>
	90	180	239	265	291	302	313	324	335	346	
					Annual \	/olumes - m3					
Project Year	<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>
	96,757	265,611	388,126	464,303	515,821	552,260	573,619	594,978	616,337	637,696	4,705,505
	-	39,900	100,600	125,000	132,200	136,900	139,100	141,300	143,500	145,700	1,104,200
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
_	-	300,000	850,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	8,850,000
	<u>96,757</u>	<u>605,511</u>	<u>1,338,726</u>	<u>1,689,303</u>	<u>1,748,021</u>	<u>1,789,160</u>	<u>1,812,719</u>	<u>1,836,278</u>	<u>1,859,837</u>	<u>1,883,396</u>	<u>14,659,705</u>
					Cumulative	e Volumes - m	3				
Project Year	<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>	
	96,757	362,367	750,493	1,214,796	1,730,617	2,282,877	2,856,495	3,451,473	4,067,809	4,705,505	
	-	39,900	140,500	265,500	397,700	534,600	673,700	815,000	958,500	1,104,200	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	300,000	1,150,000	2,250,000	3,350,000	4,450,000	5,550,000	6,650,000	7,750,000	8,850,000	
-	<u>96,757</u>	702,267	2,040,993	3,730,296	5,478,317	7,267,477	9,080,195	10,916,473	12,776,309	14,659,705	







Community Expansion Hornepayne

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue

SES Revenue

Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

EB-2019-0255 Schedule OO2 Redacted

\$ 49,847,482

Year 10 \$ 144,068

\$ 26.47

Project Year Total 200,738 212,914 236,635 241,672 \$ 1,839,663 20,644 85,351 162,032 221,521 226,559 231,597 22,254 139,267 307,907 388,540 402,045 411,507 416,925 422,344 427,762 433,181 3,371,732 42,898 224,619 469,939 589.277 614,959 633,028 643,484 653,941 664,397 674,853 \$ 5,211,395

Net Present Value







Page 2 of 3

<u>1.00</u>

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

Net Present Value





Page 3 of 3

EB-2019-0255 Schedule OO2 Redacted

Schedule OO3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Hornepayne

Total Forecasted Customers 346 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	GHG per customer	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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	73	21%	\$ 5,000	\$ 2,787	\$ 1,460	\$ 1,328	\$ 96,472	6.6	-2.4	. 476	(177)
Electricity F/A	31	9%									
Electricity Baseboard	42	12%	\$ 12,000	\$ 1,998	\$ 1,460	\$ 538	\$ 22,358	0.5	3.6	22	149
Propane	152	44%	\$ 600	\$ 1,611	\$ 1,460	\$ 152	\$ 23,124	5.1	-1.0	777	(149)
Wood	31	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	. N/A	N/A
Other	17	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	346	100%	\$ 31,100	\$ 8,395	\$ 5,838	\$ 2,557	\$ 158,723	12.7	3.8	1,292	(65)

1 Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specially, 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 01 (Community Expansion, Non-FN)								
Consumption Equivalent Price per Unit								
Gas	m3	Gas (incl. fixed)	\$/m3	0.663				
Heating oil	L	2397	Heating oil	\$/L	1.163			
Electricity	kWh	17778	Electricity	\$/kWh	0.112			
Propane	L	3309	Propane	\$/L	0.487			

Notes:

Gas prices correspond to EGI (Union Gas North West) 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 are currently unavailable for the Union North Rate zones.

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

Schedule OO4 Enbridge Gas Community Expansion Project Proposal

Hornepayne Community Expansion Project Pipeline Construction Schedule

Task Name		2022							2023						2024																				
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct I	Nov De	ec Ja	n Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																			
Permits & Approvals																																			
Leave to Construct Application and Approval																																			
Pre-Construction, Construction and Testing												Ī																							
In Service																																			

Schedule OO5 Enbridge Gas Community Expansion Project Proposal

P.O. BOX 370 68 FRONT STREET HORNEPAYNE, ONTARIO P0M 1Z0



TELEPHONE 807-868-2020 FAX No. 1-807-868-2787

March 5th, 2020 Enbridge Gas Inc. Operating as Union Gas 1211 Amber Drive Thunder Bay, ON P7B 6M6

Attn: Luke Skaarup, Director

Northern Region Operations

Dear Mr. Skaarup:

Re: Expression of Support for Natural Gas Expansion to the Township of Hornepayne

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 Hornepayne*, I would like to formally express our interest to have natural gas brought to Hornepayne 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 draft Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may be required to 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.

Please note that should Hornepayne not be a candidate for this project, the Township of Hornepayne would also be interested in pursuing LNG or CNG options if those options become available in our area.

Sincerely,

Gail Jaremy CAO/Clerk

Township of Hornepayne (807) 868-2020 x 205

jaremy.hpayne@bellnet.ca

Schedule PP Enbridge Gas Community Expansion Project Proposal

Laurentian Valley

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

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

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A 2.2 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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. 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. N/A

Part II	I – Description of and Sup	port for Project		
3.1 Redacted	Provide a general overvi- following: communities to would serve any on-rese of each community by re	ew of the project, which to be connected, including trve Indigenous commun esidential, commercial/inc	ng whether the pro ities; existing pop stitutional and inc	oulation
	sectors; routing; length	of pipeline; and nominal	pipe size.	
	Enbridge Gas is proposing to Laurentian Valley. The proposition to the control of	osed facilities will provide acc	cess to natural gas to	oa
	The proposed project will tie- intersection of polyethylene pipeline at the i	and as well a	as the existing NPS	1-1/4
		just of	Facili	ties also
	proposed along,,	,,, to	including	 and
	A portion of reinforcement is from proposed tie in. The approximate length and	_ to and	along	
		· ·		
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene Polyethylene	2 4	13,394 6,355	
	The approximate length and	size of the reinforcement pip	elines required:	
	Pipe Type Polyethylene	Diameter (NPS) 4	Length (m) 792	
3.2	Please refer to Schedule F Provide the annual and cattachments over the ter commercial/institutional Indicate for each custom would be firm or interrup	PP1 for Project Map. cumulative forecast of the algorithms and industrial sectors for the type whether the serv	e number of custo d by residential, or each communit	y.
	Please refer to Schedule F	PP2, Table 3.2.		

3.3	Provide the annual and cumulative forecast of volumes (in m³) over the tenyear 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 PP2, Table 3.3.
3.4	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. 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.
	Please refer to Schedule PP3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule PP4 for Proposed Construction Schedule.
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.
	Please refer to Schedule PP5.

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.

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.

Please refer to Schedule PP6 for Enbridge's CPCN for the Township of Laurentian Valley (EB-2017-0238) which covers the entire area of the proposed project.

Part IV – Cost of Project

4.1 Confirm that the proposed project includes a ten-year rate stability period.

The proposed project does include a ten-year rate stability period.

4.2 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).

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).

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.

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.

Please refer to Schedule PP2, Table 4.2.

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule PP2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$7,941,215
	Please refer to Schedule PP2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$39,509
	Please refer to Schedule PP2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$5.79
	Please refer to Schedule PP2, Table 5.3.

Part VI – Distribution Charge

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.

Provide a confirmation that there would be no material crosssubsidization between rate classes.

Please refer to Schedule PP2, Table 6.1.

Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part VII - Profitability Index / Benefit to Cost Ratio

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.

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).

Please refer to Schedule PP2, Table 7.1.

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.

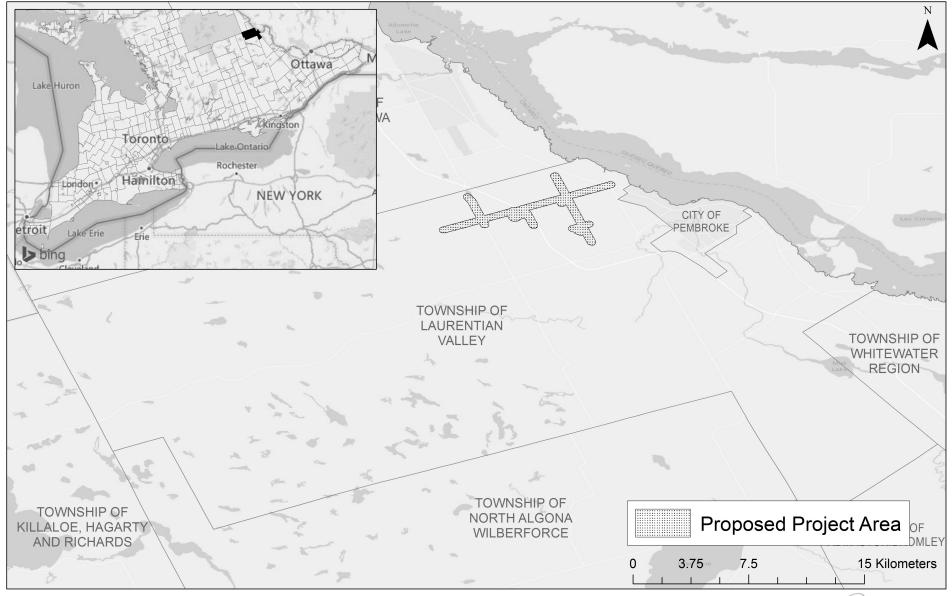
Please refer to Schedule PP2, Table 7.2.

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). • Leave to Construct
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. Please refer to Schedule PP4.

Schedule PP1 Enbridge Gas Community Expansion Project Proposal

Laurentian Valley

Laurentian Valley





Schedule PP2 Enbridge Gas Community Expansion Project Proposal

Laurentian Valley

Community Expansion	Laurentian Valley () InService Date: Nov-01-2023												EB-2019-02 Schedule P Redacted	
Table 3.2 - Custome	er Attachments Over The Rate Stability	Period												
	Customer Type	Firm / IT	Project Year	<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		52	46	17	12	10	12	10	12	11	10	192
	Commercial	Firm		-	3	2	-	-	-	-	-	-	-	5
	Institutional	Firm		-	-	-	-	-	-	-	-	-	-	-
	Agricultural	Firm		-	1	-	-	-	-	-	-	-	-	1
	Industrial	(2 firm / 1 Seasonal)	_	-	3	-	-	-	-	-	-	-	-	3
	Total Customers			<u>52</u>	<u>53</u>	<u>19</u>	<u>12</u>	<u>10</u>	<u>12</u>	<u>10</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>201</u>
	Cumulative Customers			52	105	124	136	146	158	168	180	191	201	
Table 3.3 - Annual a	and Cumulative Volumes Over The Rate	Stability Period (m3)												
								Ann	ual Volumes	- m3				
	Customer Type		Project Year	<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			62,400	180,000	255,600	290,400	316,800	343,200	369,600	396,000	423,600	448,800	3,086,400
	Commercial			-	3,600	9,600	12,000	12,000	12,000	12,000	12,000	12,000	12,000	97,200
	Institutional			-	-	-	-	-	-	-	-	-	-	-
	Agricultural			-	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85,000
	Industrial			-	450,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	7,650,000
	Total Volumes		_	<u>62,400</u>	638,600	1,175,200	1,212,400	1,238,800	1,265,200	1,291,600	1,318,000	1,345,600	1,370,800	10,918,600
	Customer Type Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	62,400 - - - - - - 62,400	242,400 3,600 - 5,000 450,000 701,000	498,000 13,200 - 15,000 1,350,000 1,876,200	25,200 - 25,000 2,250,000 3,088,600	Cumu 5 1,105,200 37,200 - 35,000 3,150,000 4,327,400	1,448,400 49,200 - 45,000 4,050,000 5,592,600	25 - m3 7 1,818,000 61,200 - 55,000 4,950,000 6,884,200	2,214,000 73,200 - 65,000 5,850,000 8,202,200	2,637,600 85,200 - 75,000 6,750,000 9,547,800	3,086,400 97,200 - 85,000 7,650,000 10,918,600	
Table 4.2 - Total Ca	pital Costs At End Of The Rate Stability	Period												
	Total Capital Costs		ı	<u>Year 10</u>										
Table 4.3 - Revenue	Requirement Over The Rate Stability P	Period												
			Project Year	1	2	3	4	5	6	7	8	9	<u>10</u>	<u>Total</u>
	Revenue Requirement				_		_	_	_		_	_		
				<u>Year 10</u>										
	Closing Rate Base (net of proposed Sec	ction 36.2 funding)												

Laurentian Valley (_____)
InService Date: Nov-01-2023

EB-2019-0255 Schedule PP2 Redacted

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

\$ 7,941,215

<u>Year 10</u> 39,509

<u>Year 10</u> 5.79

Project Year 101,563 110,815 \$ 812,185 10,934 46,576 75,909 83,059 87,685 92,311 96,937 106,399 14,352 66,378 109,296 117,852 123,924 129,996 136,068 142,140 148,488 154,284 1,142,778 25,286 112,954 <u>185,205</u> 200,911 211,609 222,307 233,005 <u>243,703</u> <u>254,887</u> 265,099 \$ 1,954,963

Net Present Value





1.00

Communi	tv Exi	nansior

InService Date: Nov-01-2023

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue Total Revenue (A)

Expenses:

O&M Expense Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

Net Present Value





EB-2019-0255 Schedule PP2 Redacted

Schedule PP3 Enbridge Gas Community Expansion Project Proposal

Laurentian Valley

Section 3.4 Laurentian Valley (_____)

Total Forecasted Customers 201 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	GHG per customer	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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)	
Oil	42	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 66,259	7.2	-2.7	303	(113)	
Electricity F/A	18	9%							3.9		71	
Electricity Baseboard	24	12%	\$ 12,000		\$ 1,481	\$ 706	\$ 17,040	0.6	3.9	14	94	
Propane	88	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 25,058	5.6	-1.1	494	(96)	
Wood	18	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	. N/A	N/A	
Other	10	5%	\$ 5,000	N/A	N/A	\$ -	N/A					
Total	201	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 121,136	13.9	4.1	822	(44)	

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 tonne	es/m3							
Heating Oil	2725 g/L	0.006 g/L	0.031 g/L	0.002734388 tonne	es/L							
Propane	1510 g/L	0.024 g/L	0.108 g/L	0.001542784 tonne	es/L							
Electricity	30 g/kWh	-	-	0.00003 tonne	es/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 Equival		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 montly average EDPRO residential rates for Zone 4 (March 2020)

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

Schedule PP4 Enbridge Gas Community Expansion Project Proposal

Laurentian Valley

Laurentian Valley Community Expansion Project Pipeline Construction Schedule

Task Name			2022 2023										2024																						
Task Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct 1	Nov D	ec Ja	an Fe	b Mai	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	/ Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																			
Permits & Approvals																																			
Leave to Construct Application and Approval																																			
Pre-Construction, Construction and Testing																																			
In Service																																			1

Schedule PP5 Enbridge Gas Community Expansion Project Proposal

Laurentian Valley



March 11, 2020

Dear REGIONAL DIRECTOR,

Re: Expression of Support for Natural Gas Expansion to the Township of Laurentian Valley

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 Township of Laurentian Valley, I would like to formally express our interest to have the to the 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 draft Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may be required to 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.

Sincerely,

Mayor Steve Bennett/ Township of Laurentian Valley sbennett@lvtownship.ca

cc. Lauree Armstrong, Township Planner/EDO – larmstrong@lvtownship.ca



Laurentian Valley 460 Witt Road Pembroke, ON K8A 6W5



Schedule PP6 Enbridge Gas Community Expansion Project Proposal

Laurentian Valley

EB-2017-0238

Certificate of Public Convenience and Necessity

The Ontario Energy Board grants

Enbridge Gas Distribution Inc.

approval under section 8 of the *Municipal Franchises Act,* R.S.O. 1990, c. M.55, as amended, to construct works to supply gas to the

Township of Laurentian Valley

as it is constituted on the date of this Decision and Order.

DATED at Toronto, May 24, 2018

ONTARIO ENERGY BOARD

Original Signed By

Pascale Duguay Manager, Application Policy and Climate Change

Schedule QQ Enbridge Gas Community Expansion Project Proposal

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

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

Part II – Description of Proponent's Technical Expertise and Financial Capability

Natural gas distributors that are currently rate-regulated by the OEB are not required to complete this Part.

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.

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. N/A
2.2	 Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: 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. 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.

Part III – Description of and Support for Project Provide a general overview of the project, which is to include the Redacted 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 to the community of Lefaivre, located within the Township of Alfred and Plantagenet. The proposed facilities will provide access to natural gas to a forecasted 246 customers (226 residential, 16 commercial / institutional and 4 industrial). The proposed distribution system will tie-in to an existing system at the intersection of and ______. The proposed supply line runs along ______ to _____ to serve the waterfront properties up to ______ of Lefaivre. Reinforcement required to support the added load of the community will run along ______ from ____ to _____ as well as along an existing Enbridge right-of-way from _____ to ____ of Hawkesbury. The approximate length and size of the supply laterals required: Pipe Type Diameter (NPS) Length (m) Polyethylene 6 14,954 The approximate length and size of the reinforcement required: Diameter (NPS) Pipe Type Length (m) Steel 8 8,100 Polyethylene 3,150 The approximate length and size of the distribution pipelines required: Pipe Type Length (m) Diameter (NPS) Polyethylene 3,967 4.248 Polyethylene Please refer to Schedule QQ1 for Project Map. Provide the annual and cumulative forecast of the number of customer 3.2 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 QQ2, 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 QQ2,Table 3.3.
3.4	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.
	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.
	Please refer to Schedule QQ3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule QQ4 for Proposed Construction Schedule
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.
	Please refer to Schedule QQ5.

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.

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.

Please refer to Schedule QQ6 for Enbridge's CPCN for the Township of Alfred and Plantagenet (EB-2006-0103) which covers the entire area of the proposed project.

Part IV – Cost of Project

4.1 Confirm that the proposed project includes a ten-year rate stability period.

The proposed project does include a ten-year rate stability period.

4.2 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).

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).

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.

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.

Please refer to Schedule QQ2, Table 4.2.

4.3 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.

Complete the tables below:

Revenue Requirement

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

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).

Please refer to Schedule QQ2, Table 4.3.

Part \	V - Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project. \$20,112,562 Please refer to Schedule QQ2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in
0.2	year ten of the project.
	\$81,758
	Please refer to Schedule QQ2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$19.66
	Please refer to Schedule QQ2, Table 5.3.

Part VI – Distribution Charge

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.

Provide a confirmation that there would be no material crosssubsidization between rate classes.

Please refer to Schedule QQ2, Table 6.1.

Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part VII – Profitability Index / Benefit to Cost Ratio

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.

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).

Please refer to Schedule QQ2, Table 7.1.

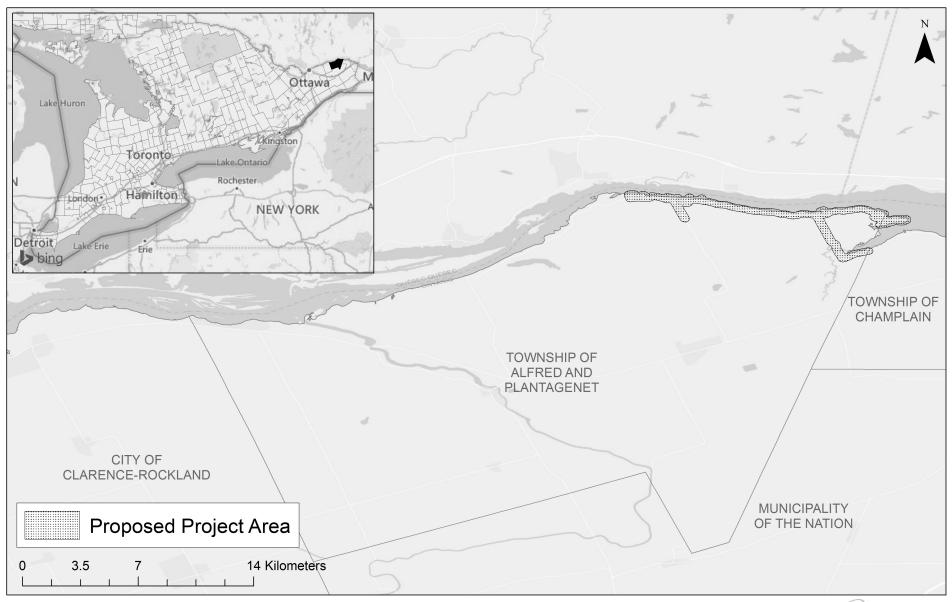
Provide, in a summary table that otherwise meets the requirements of section 7.1, the expected PI of the project without the proposed section 36.2 funding.

Please refer to Schedule QQ2, Table 7.2.

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). • Leave to Construct
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. Please refer to Schedule QQ4.

Schedule QQ1 Enbridge Gas Community Expansion Project Proposal

Village of Lefaivre





Schedule QQ2 Enbridge Gas Community Expansion Project Proposal

	InService Date: Nov-01-2023												Schedule Q Redacted	Q2
Table 3.2 - Custome	er Attachments Over The Rate Stability Period													
	Customer Type	Firm / IT	Project Year	<u>1</u>	<u>2</u>	<u>3</u>	4	<u>5</u>	6	<u>7</u>	8	<u>9</u>	10	<u>Total</u>
	Residential	Firm		61	53	20	15	12	<u>6</u> 14	13	<u>8</u> 14	13	<u>10</u> 11	226
	Commercial	Firm		-	9	3	2	1	-	-	-	-	-	15
	Institutional	Firm		-	1	-	_	-	_	-	-	-	-	1
	Agricultural	Firm		-	-	-	-	-	-	-	-	-	-	-
	Industrial	Firm		-	2	1	1	_	-	-	-	-	-	4
	Total Customers		_	<u>61</u>	<u>65</u>	<u>24</u>	<u>18</u>	<u>13</u>	<u>14</u>	<u>13</u>	<u>14</u>	<u>13</u>	<u>11</u>	<u>246</u>
	Cumulative Customers			61	126	150	168	181	195	208	222	235	246	
Table 3.3 - Annual a	and Cumulative Volumes Over The Rate Stabil	itv Period (m3)												
		,						Ann	ual Volumes	- m3				
	Customer Type		Project Year	<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			71,939	206,636	292,975	334,134	365,693	396,052	427,611	459,170	490,729	519,108	3,564,043
	Commercial			-	17,200	39,300	47,900	52,800	54,000	54,000	54,000	54,000	54,000	427,200
	Institutional			-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
	Agricultural			-	-	-	-	-	-	-	-	-	-	-
	Industrial			-	100,000	250,000	350,000	400,000	400,000	400,000	400,000	400,000	400,000	3,100,000
	Total Volumes		_	<u>71,939</u>	<u>348,836</u>	<u>632,275</u>	<u>782,034</u>	<u>868,493</u>	900,052	<u>931,611</u>	<u>963,170</u>	<u>994,729</u>	<u>1,023,108</u>	<u>7,516,243</u>
								Cumu	lative Volume	es - m3				
	Customer Type		Project Year	<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			71,939	278,575	571,549	905,683	1,271,375	1,667,427	2,095,037	2,554,207	3,044,935	3,564,043	
	Residential			-	17,200	56,500	104,400	157,200	211,200	265,200	319,200	373,200	427,200	
	Commercial											,		
				-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000	
	Commercial			-		75,000 -	125,000 -	175,000 -	225,000	275,000 -	325,000		425,000 -	
	Commercial Institutional			- - -	25,000							375,000		
	Commercial Institutional Agricultural		-	-	25,000	-	-	-	-	-	-	375,000 -	-	
Table 4.2 - Total Cap	Commercial Institutional Agricultural Industrial	d	_	-	25,000 - 100,000	- 350,000	- 700,000	- 1,100,000	- 1,500,000	- 1,900,000	- 2,300,000	375,000 - 2,700,000	3,100,000	
Table 4.2 - Total Cap	Commercial Institutional Agricultural Industrial Total Volumes	d	_	- - <u>71,939</u>	25,000 - 100,000	- 350,000	- 700,000	- 1,100,000	- 1,500,000	- 1,900,000	- 2,300,000	375,000 - 2,700,000	3,100,000	
Table 4.2 - Total Cap	Commercial Institutional Agricultural Industrial Total Volumes	d	-	-	25,000 - 100,000	- 350,000	- 700,000	- 1,100,000	- 1,500,000	- 1,900,000	- 2,300,000	375,000 - 2,700,000	3,100,000	
	Commercial Institutional Agricultural Industrial Total Volumes pital Costs At End Of The Rate Stability Period	d		- - <u>71,939</u>	25,000 - 100,000	- 350,000	- 700,000	- 1,100,000	- 1,500,000	- 1,900,000	- 2,300,000	375,000 - 2,700,000	3,100,000	
	Commercial Institutional Agricultural Industrial Total Volumes pital Costs At End Of The Rate Stability Period Total Capital Costs	d		- - <u>71,939</u>	25,000 - 100,000	- 350,000	- 700,000	- 1,100,000	- 1,500,000	- 1,900,000	- 2,300,000	375,000 - 2,700,000	3,100,000	
	Commercial Institutional Agricultural Industrial Total Volumes pital Costs At End Of The Rate Stability Period Total Capital Costs	d	Project Year	- - <u>71,939</u>	25,000 - 100,000	- 350,000	- 700,000	- 1,100,000	- 1,500,000	- 1,900,000	- 2,300,000	375,000 - 2,700,000	3,100,000	<u>Total</u>
	Commercial Institutional Agricultural Industrial Total Volumes pital Costs At End Of The Rate Stability Period Total Capital Costs Requirement Over The Rate Stability Period	d	Project Year	- - <u>71,939</u>	25,000 - 100,000	- 350,000	- 700,000	1,100,000 2,703,575	- 1,500,000	- 1,900,000	2,300,000 5,498,407	375,000 - 2,700,000 <u>6,493,135</u>	3,100,000 7,516,243	<u>Total</u>
	Commercial Institutional Agricultural Industrial Total Volumes pital Costs At End Of The Rate Stability Period Total Capital Costs Requirement Over The Rate Stability Period		Project Year	- - <u>71,939</u>	25,000 - 100,000	- 350,000	- 700,000	1,100,000 2,703,575	- 1,500,000	- 1,900,000	2,300,000 5,498,407	375,000 - 2,700,000 <u>6,493,135</u>	3,100,000 7,516,243	<u>Total</u>

EB-2019-0255

Community Expansion Lefaivre

Community Expansion

Lefaivre

InService Date: Nov-01-2023

EB-2019-0255 Schedule QQ2 Redacted

132,555 \$

235,315

<u>367,870</u>

949,596

1,728,736

\$ 2,678,332

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

\$ 20,112,562

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

<u>Year 10</u> 81,758

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

Section 36.2 Funding Amount Per Volume (m3)

<u>Year 10</u> 19.66

12,739

16,546

29,285

48,431

80,232

128,663

79,758

145,423

225,181

94,929

179,868

274,797

104,746

199,753

<u>304,499</u>

110,681

207,012

317,693

116,300

214,270

330,570

121,919

221,529

343,448

127,538

228,788

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense Municipal Tax

Income Tax

T. . . .

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)

Net Present Value

Project Year

<u>1.00</u>

InService Date: Nov-01-2023

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

Net Present Value Cash Inflow Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A)

Expenses: O&M Expense Municipal Tax Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow **Gross Capital** Change in Working Capital Total Cash Outflow (D)

Profitability Index (PI) Without Section 36.2 Funding (C / D)

EB-2019-0255 Schedule QQ2 Redacted

Schedule QQ3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Lefaivre (Twp of Alfred and Plantagenet)

Total Forecasted Customers 246 Penetration Rate 65%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer ¹	Estimated Conversion Cost ²	(existing tuel)	Estimated Annual Energy Costs (natural gas)	• .	Estimated Annual Savings		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	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	52	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 81,093	7.2	-2.7	371	(138)
Electricity F/A	22	9%					\$ 15,641	0.6	3.9	13	87
Electricity Baseboard	30	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 20,854	0.6	3.9	17	116
Propane	108	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 30,667	5.6	-1.1	605	(118)
Wood	22	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	. N/A	N/A
Other	12	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	246	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 148,256	13.9	4.1	1,006	(54)

1 Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specially, 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 Ui	nits								
Natural Gas	1863 g/m3	0.037 g/m3	0.035 g/m3	0.001874355 to	nnes/m3								
Heating Oil	2725 g/L	0.006 g/L	0.031 g/L	0.002734388 to	nnes/L								
Propane	1510 g/L	0.024 g/L	0.108 g/L	0.001542784 to	nnes/L								
Electricity	30 g/kWh	-	-	0.00003 to	nnes/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)

	Ra	te 1 (Community Expansio	on, Non-FN)					
	Consumption Equivale		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 montly average EDPRO residential rates for Zone 4 (March 2020)

Carbon price is included for all energy types as reported. All costs exclude $\ensuremath{\mathsf{HST}}$.

Schedule QQ4 Enbridge Gas Community Expansion Project Proposal

Lefaivre Community Expansion Project Pipeline Construction Schedule

Task Namo		2022										2023											2024												
Task Name		Feb	Mai	r Apr	May	Jun	Jul	Aug	Sep (Oct N	Nov De	ec Ja	ın Fek	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																			
Permits & Approvals																																			
Leave to Construct Application and Approval																																			
Pre-Construction, Construction and Testing												Ī																							
In Service																																			

Schedule QQ5 Enbridge Gas Community Expansion Project Proposal



CANTON D'ALFRED ET PLANTAGENET TOWNSHIP OF ALFRED AND PLANTAGENET

March 31, 2020

lan Ross Director, Eastern Region Operations Enbridge Gas Inc.

Re: Expression of Support for Natural Gas Expansion

Alfred and Plantagenet Township

Mr. Ross,

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 Alfred and Plantagenet, I would like to formally express our interest to have the village of Lefaivre (priority one) and the village of Curran (priority two) projects 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 draft Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may be required to include support for the proposed project from the 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.

Sincerely,

Stéphane Sarrazin

Mayor

Township of Alfred and Plantagenet ssarrazin@alfred-plantagenet.com

205, vieille route 17 / 205 Old Highway 17 C.P. 350 / P.O. Box 350 Plantagenet, ON K0B 1L0

Telephone: (613) 673-4797 Fax: (613) 673-4812

www.alfred-plantagenet.com

Schedule QQ6 Enbridge Gas Community Expansion Project Proposal

EB-2006-0103

Certificate of Public Convenience and Necessity

The Ontario Energy Board hereby grants

Enbridge Gas Distribution Inc.

approval under section 8 of the *Municipal Franchises Act*, R.S.O. 1990, c. M.55, as amended, to construct works to supply gas to the

Township of Alfred and Plantagenet

This certificate replaces the certificates of the former municipalities of the Township of Alfred, the Township of North Plantagenet and the Village of Alfred that are now within the Township of Alfred and Plantagenet.

Dated at Toronto, August 9, 2006

ONTARIO ENERGY BOARD

Original signed by

Kirsten Walli Board Secretary