Schedule 5U 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: Alderville, Roseneath and Alderville FN 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:						
T attick McMarion	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.

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Alderville and Ros Alderville First Na	seneath in the ation. The prop	Township of Alnwick / osed facilities will prov	service to the commur Haldimand as well as vide access to natural nmercial / institutional)	to the gas to
and	in the co	mmunity of Baltimore I	pipe at the intersection located in the southeas required at the tie-in fe	st porti
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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 5U-2, 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 5U-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 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 5U-3, 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 5U-4 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.
	No letter of support has been provided by the local government in time for this project submission.
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 5U-6 for Enbridge's CPCN for the Township of Alnwick / Haldimand (EB-2008-0088) which covers parts of the proposed project within the communities of Alderville and Roseneath and Enbridge's CPCN for the Township of Hamilton (FBC 210) which covers the area of the proposed tie-in.
	A Band Council Resolution and Section 28 permit pursuant to the <i>Indian Act</i> will be required for parts of the proposed project within the Alderville First Nation Reserve.
Part I	V – 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 5U-2, 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 5U-2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$18,916,120
	Please refer to Schedule 5U-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$64,560
	Please refer to Schedule 5U-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$28.94
	Please refer to Schedule 5U-2, Table 5.3.

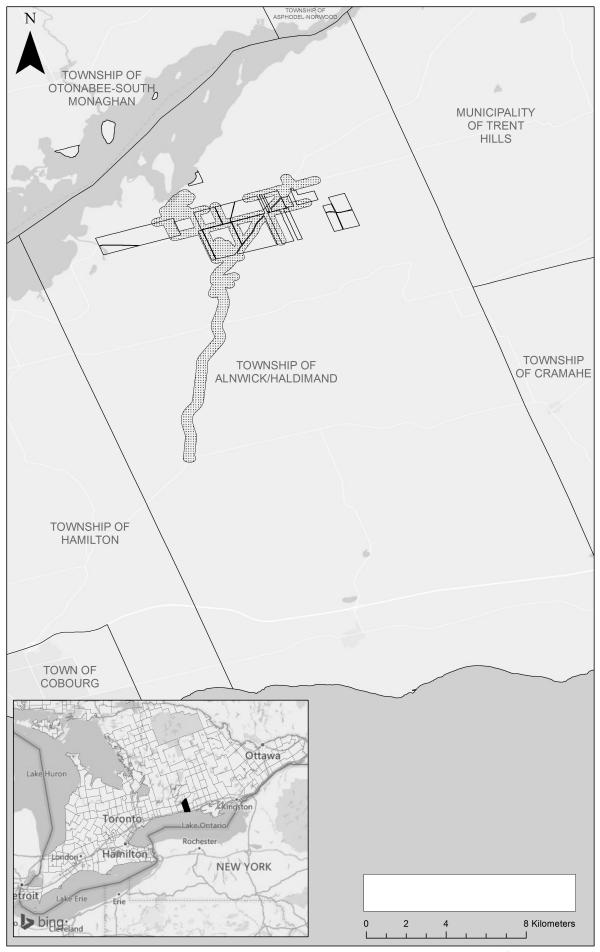
Part \	/I – Distribution Charge								
6.1	Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.								
	Provide a confirmation that there would be no material cross- subsidization between rate classes.								
	Please refer to Schedule 5U-2, 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 5U-2, 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 5U-2, 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 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 5U-4.								

Schedule 5U-1 Enbridge Gas Community Expansion Project Proposal

Alderville, Roseneath & Alderville FN





Schedule 5U-2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Alderville, Roseneath and Alderville First Nation

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over 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 5U-2 Redacted

Project Year	<u>1</u>	2 62	3 43	<u>4</u>	<u>5</u> 22	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	86	62		22	22	9	9	9	9	9	280
	-	7	2	2	1	1	-	-	-	-	13
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
	<u>86</u>	<u>69</u>	<u>45</u>	<u>24</u>	<u>23</u>	<u>10</u>	<u>9</u>	<u>9</u>	<u>9</u>	<u>9</u>	<u>293</u>
	86	155	200	224	247	257	266	275	284	293	
					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>
	94,600	257,400	372,900	444,400	492,800	526,900	546,700	566,500	586,300	606,100	4,494,600
	-	14,400	32,400	39,600	44,300	46,500	47,600	47,600	47,600	47,600	367,600
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
	<u>94,600</u>	<u>271,800</u>	<u>405,300</u>	<u>484,000</u>	<u>537,100</u>	<u>573,400</u>	<u>594,300</u>	<u>614,100</u>	<u>633,900</u>	<u>653,700</u>	<u>4,862,200</u>
					Cumulativ	e 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>	
	94,600	352,000	724,900	1,169,300	1,662,100	2,189,000	2,735,700	3,302,200	3,888,500	4,494,600	
	-	14,400	46,800	86,400	130,700	177,200	224,800	272,400	320,000	367,600	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-		
	<u>94,600</u>	<u>366,400</u>	<u>771,700</u>	<u>1,255,700</u>	<u>1,792,800</u>	<u>2,366,200</u>	2,960,500	3,574,600	4,208,500	4,862,200	





Year 10

Community Expansion Alderville, Roseneath and Alderville First Nation

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 5U-2 Redacted

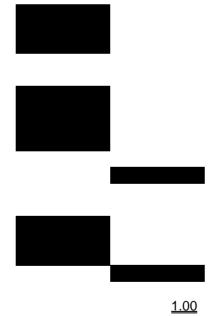
\$ 18,916,120

<u>Year 10</u> 64,560

Year 10 28.94

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>Tota</u>
	\$ 19,923	56,415	83,532	99,764	110,776	118,421	122,823	126,992	131,162	135,332	\$ 1,005,140
	21,758	62,514	93,219	111,320	123,533	131,882	136,689	141,243	145,797	150,351	1,118,306
	\$ 41,681	118,929	176,751	211,084	234,309	250.303	259,512	268,235	276,959	285,683	\$ 2,123,446

Net Present Value



Page 2 of 3

Community Expansion Alderville, Roseneath and Alderville First Nation

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 5U-2 Redacted

Schedule 5U-3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Alderville, Roseneath and Alderville FN

Total Forecasted Customers 293 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) ³	Estimated Annual Energy Costs (natural gas)	Estimated Annual Savings per customer	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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil Electricity F/A Electricity Baseboard	62 26 35	21% 9% 12%	\$ 5,000	\$ 1,998	\$ 1,495	\$ 503	\$ 13,261	0.5	3.6	14	(150) 95 126
Propane Wood Other	129 26 15	44% 9% 5%	\$ 3,500	l '	\$ 1,495 N/A N/A	\$ -	\$ 14,989 N/A N/A	NA			(127) NA
Total	293	100%	\$ 31,100	\$ 8,395	\$ 5,981	\$ 2,414	\$ 125,432	12.7	3.8	1,094	(55)

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.

^{3.} Estimated Annual Energy Costs for Electricity F/A and Electricity Baseboard for Customers in Alderville First Nation Community is approximately \$1,673 resulting in \$173 annual estimated savings per customer if converted to Natural Gas.

		Em	ission 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/kW
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)

	Rati	e 01 (Community Expansio	n, 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.

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.

Schedule 5U-4 Enbridge Gas Community Expansion Project Proposal

Alderville, Roseneath and Alderville FN Community Expansion Project Pipeline Construction Schedule

Task Name		2022						2023							2024																				
		Feb	Mai	r Apr	May	Jun	Jul	Aug	Sep	Oct 1	Nov De	ec Ja	ın 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																																			
In Service																																			

Schedule 5U-6 Enbridge Gas Community Expansion Project Proposal

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

F.B.C. No. 310

ONTARIO FUEL BOARD

IN THE MATTER OF The Municipal Franchises Act, Chapter 249, R.S.O. 1950, Section 8, as amended, and

IN THE MATTER OF an application by Lakeland Natural Gas Limited for a certificate of public convenience and necessity to construct works and to supply gas to the inhabitants of the Township of Hamilton.

BEFORE:

A. R. CROZIER, Chairman MONDAY, THE 17TH DAY OF

J. J. WINGFELDER, Commissioner MARCH, 1958.

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

UPON the application of Lakeland Natural Gas Limited (hereinafter referred to as the "Applicant") for a Certificate of Public Convenience and Necessity to construct works to supply and to supply gas to the inhabitants of the Township of Hamilton pursuant to the provisions of the Municipal Franchises Act, R.S.O. 1950, Chapter 249, Section 8, and amendments thereto, and at a public hearing of such application by the Ontario Fuel Board at the City of Toronto on the 17th day of March, 1958, after due notice of such hearing had been given as directed by the Board, in the presence of counsel for the Applicant and 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 Lakeland Natural Gas Limited for the supply of gas to the inhabitants of the Township of Hamilton and for the construction of the works necessary therefor.
- 2. AND THIS BOARD DOTH FURTHER ORDER that the costs of

this hearing are fixed at \$5.00 and shall be paid forthwith by the Applicant to the Board.

DATED at Toronto this 2 m d day of May, 1958.

ONTARIO FUEL BOARD

Chairman

Commissioner

Schedule 5V 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: Astorville Community Expansion Project	*				
Froject Name. Astorville Community Expansion Froject					
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

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Part II	I – Description of and Su	pport for Project		
3.1	Provide a general overv	iew of the project, which	n is to include the	
Redacted	following: communities			oject
	would serve any on-rese			
	of each community by re			
	sectors; routing; length			
	, 3, 3	• • •	• •	
	Enbridge Gas is proposing t	o provide gas distribution se	ervice in the community	y of
	Astorville within the Townsh	ip of East Ferris. The propo	sed facilities will provi	de access
	to natural gas to a forecaste		ential, 13 commercial /	/
	institutional and 1 industrial)			
	The proposed tie-in point wi			
	connecting to an existing TO			
	consist of 45,000 m of 2" po	lyethylene pipe and 12,000	m of 4" polyethylene p	ipe.
	The proposed distribution sy	etom will extend	•	and
	include,			
		,,,		
	,	,, and		
	,			
	There will be no reinforcement	ent required to accommodate	e additional loads for t	he system.
	A new TC Energy station is	required to be installed at _	to feed cor	nmunity.
	The common for the law with an ele		Para a managarah	
	The approximate length and	i size of the distribution pipe	lines requirea:	
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	2	45,000	
	1 Olyethylene	2	43,000	
	The approximate length and	I size of the supply laterals r	equired:	
	The approximate foligin and	i cizo el tilo cuppi, laterale i	oquii oui	
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	4	12,000	
			•	
	Please refer to Schedule	5V-1 for Proiect Map.		
		,		
	Provide the annual and	cumulative forecast of t	he number of custo	omer
3.2	attachments over the te			
	commercial/institutiona			v
	Indicate for each custon			•
	would be firm or interru		vice to be provided	<i>A</i>
	would be illill of litterfu	puble.		
	Please refer to Schedule	5\/-2 Tahle 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 5V-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 5V-3, 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 5V-4 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 5V-5.

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 5V-6 for Enbridge's CPCN for the Township of East Ferris (EBC 132) 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 5V-2, 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 5V-2, 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.
	\$23,574,415
	Please refer to Schedule 5V-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$61,875
	Please refer to Schedule 5V-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$23.35
	Please refer to Schedule 5V-2, 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 5V-2, 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.

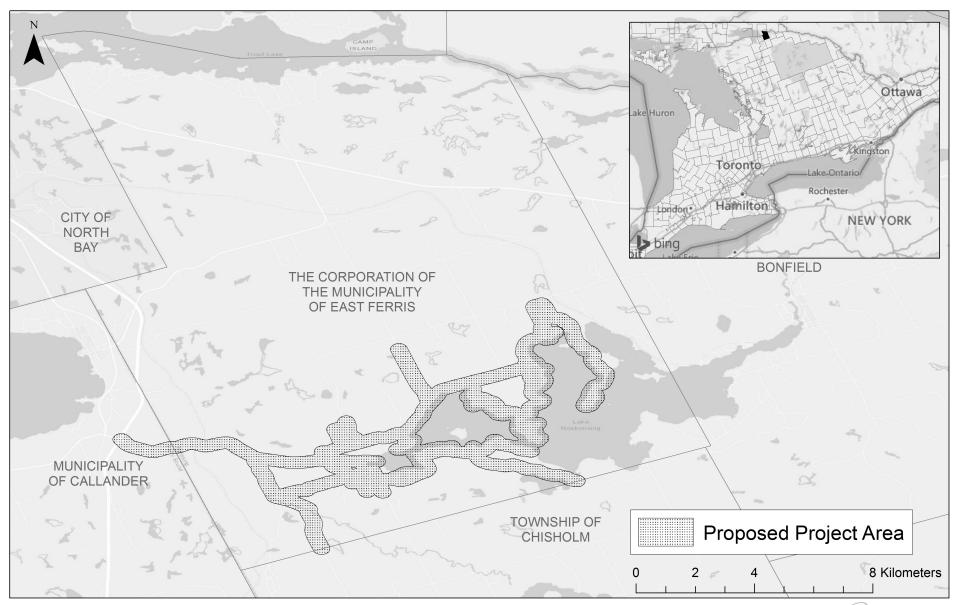
The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a "portfolio" of projects).

Please refer to Schedule 5V-2, 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 5V-2, Table 7.2.

Schedule 5V-1 Enbridge Gas Community Expansion Project Proposal





Schedule 5V-2 Enbridge Gas Community Expansion Project Proposal

Grant Report - OEB Astorville

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over 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

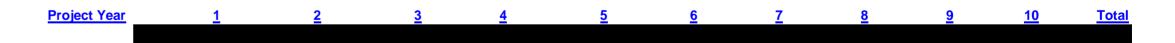
Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule 5V-2 Redacted

Project Year	120	2 85 8	3 60 3	4 25	<u>5</u> 25	<u>6</u> 12	7 12	8 12	<u>9</u> 8	10 8	<u>Total</u> 367 11
	_	1	-	_	_	_	_	_	_	_	1
	-	1	-	-	_	-	-	-	-	_	1
	-	1	-	-	-	-	-	-	-	-	1
_	<u>120</u>	<u>96</u>	<u>63</u>	<u>25</u>	<u>25</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>8</u>	<u>8</u>	<u>381</u>
	120	216	279	304	329	341	353	365	373	381	
					Annuall	(alumaa m2					
Drainet Veer	Annual Volumes - m3										
Project Year	122 000	2 357,500	<u>3</u> 517,000	610,500	<u>5</u>	706 200	732,600	8 759,000	9 781,000	<u>10</u> 798,600	<u>Total</u> 6,059,900
	132,000	20,800	46,300	51,000	665,500 51,000	706,200 51,000	51,000	51,000	51,000	51,000	424,100
	-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	424,100 425,000
	-	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	425,000 85,000
	_	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
	132,000	458,300	723,300	<u>821,500</u>	<u>876,500</u>	917,200	943,600	970,000	992,000	1,009,600	7,844,000
	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>	
	132,000	489,500	1,006,500	1,617,000	2,282,500	2,988,700	3,721,300	4,480,300	5,261,300	6,059,900	
	-	20,800	67,100	118,100	169,100	220,100	271,100	322,100	373,100	424,100	
	-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000	
	-	5,000	15,000	25,000	35,000	45,000	55,000	65,000	75,000	85,000	
_	-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000	
	<u>132,000</u>	<u>590,300</u>	<u>1,313,600</u>	<u>2,135,100</u>	<u>3,011,600</u>	<u>3,928,800</u>	<u>4,872,400</u>	<u>5,842,400</u>	<u>6,834,400</u>	<u>7,844,000</u>	





Year 10

Grant Report - OEB

Astorville

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 5V-2 Redacted

\$ 23,574,415

Year 10 61,875

0.,0.

Year 10 \$ 23.35

Project Year 149,220 169,374 174,934 185,127 188,834 \$ 1,450,090 27,800 84,795 128,709 160,803 180,494 30,360 105,409 166,359 188,945 201,595 210,956 217,028 223,100 228,160 232,208 1,804,120 58,160 190,204 295,068 338,165 362.398 380,330 391,962 403,594 413,287 421,042 \$ 3,254,210

Net Present Value







Page 2 of 3

<u>1.00</u>

Astorville

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 5V-2

Redacted





Schedule 5V-3 Enbridge Gas Community Expansion Project Proposal

Astorville

Section 3.4 Astorville

Total Forecasted Customers 381 Penetration Rate 52%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer ¹	Estimated Conversion Cost ²	(existing fliel)	Estimated Annual Energy Costs (natural gas)	Estimated Annual Savings per customer	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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	61	16%	\$ 5,000	\$ 2,787	\$ 1,495	\$ 1,292	\$ 79,218	6.6	-2.4	402	(149)
Electricity F/A	18	5%	\$ 5,000	\$ 1,998	\$ 1,495	\$ 503	\$ 8,809	0.5	3.6	9	63
Electricity Baseboard	31	8%	\$ 12,000	\$ 1,998	\$ 1,495	\$ 503	\$ 15,415	0.5	3.6	16	110
Propane	131	34%	\$ 600	\$ 1,611	\$ 1,495	\$ 116	\$ 15,275	5.1	-1.0	671	(129)
Wood	66	17%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	74	20%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	381	100%		\$ 8,395	\$ 5,981	\$ 2,414	\$ 118,717	12.7	3.8	1,098	(105)

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.

_		Em	nission 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		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 5V-4 Enbridge Gas Community Expansion Project Proposal

Astorville

Astorville Community Expansion Project Pipeline Construction Schedule

Task Name						202	22					2023 2024																							
		Feb	Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Эес	Jan F	eb M	ar Ap	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 5V-5 Enbridge Gas Community Expansion Project Proposal

Astorville

EB-2019-0255 Schedule 5V-5 Redacted

MUNICIPALITÉ · EAST FERRIS · MUNICIPALITY

390 Highway 94 Corbeil, Ontario P0H 1K0



Tel.: (705) 752-2740 Fax.: (705) 752-2452 municipality@eastferris.ca

June 30, 2020

Enbridge Gas Inc. 1211 Amber Drive Thunder Bay, ON P7B 6M4 Attention: Wendy Landry

Dear Regional Director,

Re:	Expression of Support for Natural Gas Expa	ansion to the Municipality of East
	Ferris -) & Astorville 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. 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 Municipality of East Ferris, I would like to formally express our interest to have the Astorville and 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,

Pauline Rochefort

Mayor Pauline Rochefort Municipality of East Ferris

Schedule 5V-6 Enbridge Gas Community Expansion Project Proposal

Astorville

E.B.C. 132

IN THE MATTER OF The Municipal Franchises Act, R.S.O. 1980, Chapter 309, Section 8 and amendments thereto;

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 Township of East Ferris in the District of Nipissing.

BEFORE:	H. R. Chatterson Presiding Member)					
	ricelaing nember	ý	August	9	&	10.	1984
	D. A. Dean)	THE CHILD AND THE				
\$2	Member)					

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

UPON THE APPLICATION of Northern and Central Gas
Corporation Limited ("Northern") to the Ontario Energy
Board for a Certificate of Public Convenience and
Necessity to construct works and to supply gas in the
Township of East Ferris;

AND Notice of Application having been published in the Ontario Gazette and The Nugget and the Kenora Daily Miner & News and served upon the Clerk of the Township of East Ferris, and no answer having been filed;

AND UPON the application having been heard on August 9 and 10, 1984 in the presence of counsel for Northern and for the Board, no one else appearing;

AND UPON the Board having reserved its decision at the conclusion of the hearing and having issued written Reasons for Decision on August 23, 1984 finding that public convenience and necessity requires that approval be given;

IT IS THEREFORE ORDERED THAT:

- 1. A Certificate of Public Convenience and Necessity be hereby granted to Northern to construct works to supply and to supply gas in the Township of East Ferris.
- 2. The Board's costs shall be paid by Northern as soon as they have been fixed.

ISSUED at Toronto this /4774day of September, 1984.

ONTARIO ENERGY BOARD

teer .c.

S.A.C. Thomas

Board Secretary

Schedule 5W 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: Burritts Rapids Community Expansion F	Project							
Address of Head Office:	Telephone Number:							
50 Keil Drive North	519-436-4600							
Chatham, ON N7M 5M1	313 430 4000							
Chatham, Civ 1471vi Sivii								
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 in the community of Burritts Rapids within the Municipality of North Grenville. The proposed facilities will provide access to natural gas to a forecasted 30 customers (29 residential and 1 commercial / institutional). The proposed project will tie-in to an existing 4" steel XHP pipeline on ____. The proposed facilities will run ____ along _____ to ____ to ____ A new distribution station is proposed to be built at the tie-in point. The approximate length and size of the distribution pipelines required: Diameter (NPS) Pipe Type Length (m) Polyethylene 1.055 Polyethylene 4 380 Please refer to Schedule 5W-1 for Project Map. 3.2 Provide the annual and cumulative forecast of the number of customer attachments over the ten-year rate stability period by residential, commercial/institutional and industrial sectors for each community. Indicate for each customer type whether the service to be provided would be firm or interruptible. Please refer to Schedule 5W-2, 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 5W-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 5W-3, 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 5W-4 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 5W-5.
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 5W-6 for Enbridge's CPCN for the Municipality of North Grenville (RP-2000-0074 / EB-2003-0153) which covers the entire area of the proposed project.

(Note: The Township of North Grenville was established on January 1, 1998 through the amalgamation of Oxford-on-Rideau Township, South Gower Township and the Town of Kemptville. In 2003, a motion of the municipal council adopted the designation of "municipality".) 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 5W-2, 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 5W-2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project. \$978,302
	Please refer to Schedule 5W-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$32,610
	Please refer to Schedule 5W-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$13.82
	Please refer to Schedule 5W-2, 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 5W-2, 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 5W-2, Table 7.1.

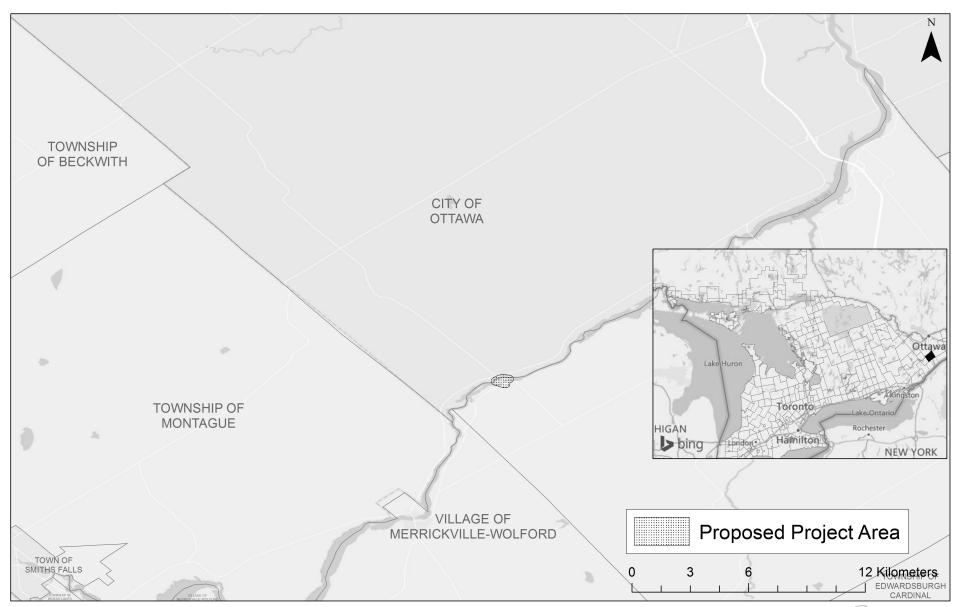
Provide, in a summary table that otherwise meets the requirements of section 7.1, the expected PI of the project without the proposed section 36.2 funding.

Please refer to Schedule 5W-2, 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).
	N/A
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 5W-4.

Schedule 5W-1 Enbridge Gas Community Expansion Project Proposal

Burritts Rapids





Schedule 5W-2 Enbridge Gas Community Expansion Project Proposal

	InService Date: Nov-01-2023												Schedule 5W Redacted	
Table 3.2 - Custom	ner 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		9	7	4	<u>4</u> 2	<u>5</u> 2	1	1	1	1	1	<u>Total</u> 29
	Commercial	Firm		-	1	-	-	-	-	-	-	-	-	1
	Institutional	Firm		-	-	-	-	-	-	-	-	-	-	-
	Agricultural	Firm		-	-	-	-	-	-	-	-	-	-	-
	Industrial	Firm	<u> </u>	-	-	-	-	-	-	-	-	-		-
	Total Customers			<u>9</u>	<u>8</u>	<u>4</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>30</u>
	Cumulative Customers			9	17	21	23	25	26	27	28	29	30	
Table 3.3 - Annual	and Cumulative Volumes Over The Rate Stability	ty Period (m3)												
									ual Volumes -					
	<u>Customer Type</u>		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			10,800	30,000	43,200	50,400	55,200	58,800	61,200	63,600	66,000	68,400	507,600
	Commercial			-	1,200	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	20,400
	Institutional			-	-	-	-	-	-	-	-	-	-	-
	Agricultural			-	-	-	-	-	-	-	-	-	-	-
	Industrial		_	-	-	-	-	-	-	-	-	-	-	-
	Total Volumes			<u>10,800</u>	<u>31,200</u>	<u>45,600</u>	<u>52,800</u>	<u>57,600</u>	<u>61,200</u>	<u>63,600</u>	<u>66,000</u>	<u>68,400</u>	<u>70,800</u>	<u>528,000</u>
								Cumul	ative Volumes					
	Customer Type		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>	
	Residential		Project Year	10,800	40,800	84,000	134,400	<u>5</u> 189,600	<u>6</u> 248,400	7 309,600	373,200	439,200	507,600	
	Residential Commercial		Project Year					<u>5</u>	<u>6</u>	<u>7</u>				
	Residential Commercial Institutional		Project Year	10,800	40,800	84,000	134,400	<u>5</u> 189,600	<u>6</u> 248,400	7 309,600	373,200	439,200	507,600	
	Residential Commercial Institutional Agricultural		Project Year	10,800 -	40,800 1,200	84,000 3,600	134,400 6,000	189,600 8,400	248,400 10,800	7 309,600 13,200	373,200 15,600	439,200 18,000	507,600 20,400	
	Residential Commercial Institutional Agricultural Industrial		Project Year	10,800 - - - -	40,800 1,200 - - -	84,000 3,600 - - -	134,400 6,000 - - -	189,600 8,400 - - -	6 248,400 10,800 - - -	7 309,600 13,200 - - -	373,200 15,600 - - -	439,200 18,000 - - -	507,600 20,400 - - -	
	Residential Commercial Institutional Agricultural		Project Year	10,800 - - -	40,800 1,200 - -	84,000 3,600 - -	134,400 6,000 - -	189,600 8,400 - -	248,400 10,800 - -	309,600 13,200 - -	373,200 15,600 - -	439,200 18,000 - -	507,600 20,400 - -	
Table 4.2 - Total Ca	Residential Commercial Institutional Agricultural Industrial		Project Year	10,800 - - - -	40,800 1,200 - - -	84,000 3,600 - - -	134,400 6,000 - - -	189,600 8,400 - - -	6 248,400 10,800 - - -	7 309,600 13,200 - - -	373,200 15,600 - - -	439,200 18,000 - - -	507,600 20,400 - - -	
Table 4.2 - Total Ca	Residential Commercial Institutional Agricultural Industrial Total Volumes apital Costs At End Of The Rate Stability Period		Project Year	10,800 - - - -	40,800 1,200 - - -	84,000 3,600 - - -	134,400 6,000 - - -	189,600 8,400 - - -	6 248,400 10,800 - - -	7 309,600 13,200 - - -	373,200 15,600 - - -	439,200 18,000 - - -	507,600 20,400 - - -	
Table 4.2 - Total Ca	Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	10,800 - - - - - 10,800	40,800 1,200 - - -	84,000 3,600 - - -	134,400 6,000 - - -	189,600 8,400 - - -	6 248,400 10,800 - - -	7 309,600 13,200 - - -	373,200 15,600 - - -	439,200 18,000 - - -	507,600 20,400 - - -	
	Residential Commercial Institutional Agricultural Industrial Total Volumes apital Costs At End Of The Rate Stability Period		Project Year	10,800 - - - - - 10,800	40,800 1,200 - - -	84,000 3,600 - - -	134,400 6,000 - - -	189,600 8,400 - - -	6 248,400 10,800 - - -	7 309,600 13,200 - - -	373,200 15,600 - - -	439,200 18,000 - - -	507,600 20,400 - - -	
	Residential Commercial Institutional Agricultural Industrial Total Volumes Appital Costs At End Of The Rate Stability Period Total Capital Costs			10,800 - - - - - 10,800	40,800 1,200 - - -	84,000 3,600 - - - 87,600	134,400 6,000 - - -	189,600 8,400 - - - 198,000	6 248,400 10,800 - - - 259,200	7 309,600 13,200 - - -	373,200 15,600 - - -	439,200 18,000 - - -	507,600 20,400 - - - 528,000	Total
	Residential Commercial Institutional Agricultural Industrial Total Volumes Appital Costs At End Of The Rate Stability Period Total Capital Costs Total Capital Costs		Project Year	10,800 - - - - - 10,800	40,800 1,200 - - -	84,000 3,600 - - -	134,400 6,000 - - -	189,600 8,400 - - -	6 248,400 10,800 - - -	7 309,600 13,200 - - -	373,200 15,600 - - -	439,200 18,000 - - -	507,600 20,400 - - -	<u>Total</u>
	Residential Commercial Institutional Agricultural Industrial Total Volumes Appital Costs At End Of The Rate Stability Period Total Capital Costs			10,800 - - - - - 10,800	40,800 1,200 - - -	84,000 3,600 - - - 87,600	134,400 6,000 - - -	189,600 8,400 - - - 198,000	6 248,400 10,800 - - - 259,200	7 309,600 13,200 - - -	373,200 15,600 - - -	439,200 18,000 - - -	507,600 20,400 - - - 528,000	<u>Total</u>
	Residential Commercial Institutional Agricultural Industrial Total Volumes Appital Costs At End Of The Rate Stability Period Total Capital Costs Total Capital Costs			10,800 - - - - - 10,800	40,800 1,200 - - -	84,000 3,600 - - - 87,600	134,400 6,000 - - -	189,600 8,400 - - - 198,000	6 248,400 10,800 - - - 259,200	7 309,600 13,200 - - -	373,200 15,600 - - -	439,200 18,000 - - -	507,600 20,400 - - - 528,000	<u>Total</u>

EB-2019-0255

Community Expansion Burritts Rapids

Burritts Rapids

InService Date: Nov-01-2023

EB-2019-0255 Schedule 5W-2 Redacted

13,037 \$

16,284

<u>29,321</u>

Total

97,884

121,440

219,324

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

\$ 978,302

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

<u>Year 10</u> 32,610

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

Section 36.2 Funding Amount Per Volume (m3)

<u>Year 10</u> 13.82

1,892

2,484

4,376

5,783

7,176

12,959

8,621

10,488

<u>19,109</u>

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>

9,883

12,144

22,027

10,724

13,248

23,972

11,355

14,076

<u>25,431</u>

11,775

14,628

26,403

12,196

15,180

27,376

12,617

15,732

28,349

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 5W-2 Redacted

Schedule 5W-3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Burritts Rapids

Total Forecasted Customers 30 Penetration Rate 66%

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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil Electricity F/A Electricity Baseboard Propane Wood	6 3 4 13 3	21% 9% 12% 44% 9%	\$ 5,000 \$ 12,000 \$ 600 \$ 3,500	\$ 2,187 \$ 2,187 \$ 1,764 N/A	\$ 1,481 \$ 1,481 \$ 1,481 N/A	\$ 706 \$ 706 \$ 283 \$ -	\$ 1,907 \$ 2,543 \$ 3,740 N/A	0.6 0.6 5.6 NA	3.9 3.9 -1.1	2 2 74	` '
Other Total	2 30	5% 100%			N/A \$ 5,923		N/A \$ 18,080		4.1	123	(7)

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

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

		Emission Factors												
	CO2	CH4	N2O	CO2e Units										
Natural Gas	1863 g/m3	0.037 g/m3	0.035 g/m3	0.001874355 tonnes/m	n3									
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\	Wh									
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)												
C	onsumption Equivaler		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 5W-4 Enbridge Gas Community Expansion Project Proposal

Burritts Rapids Community Expansion Project Pipeline Construction Schedule

Task Nama		2022									2023										2024															
Task Name	Jan	Feb	Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan F	eb N	Mar /	.pr N	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 5W-5 Enbridge Gas Community Expansion Project Proposal



May 26, 2020

Ian Ross P. Eng, MBA
Director - Eastern Region Operations
Enbridge Gas Inc.
400 Coventry Road | Ottawa, K1K 2C7

Dear Mr. Ross,

RE: Expression of Support for Natural Gas Expansion to Municipality of North Grenville – Hamlet of Burritts Rapids

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 Municipality of North Grenville, I would like to formally express our interest to have the hamlet of Burritts Rapids included on the Enbridge Gas list of projects being proposed to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Program. See attached mapping and housing counts for the proposed area of expansion.

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.

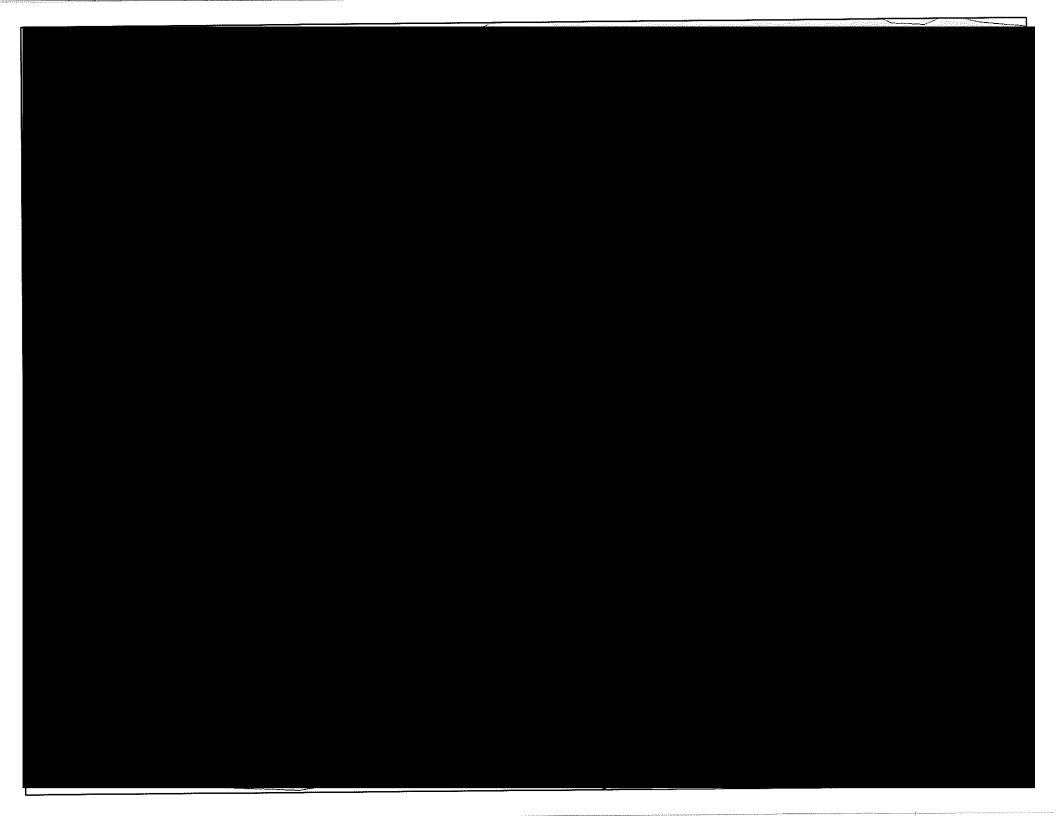
Sincerely,

Nancy Reckford

Mayor, North Grenville

Office of the Mayor

Municipality of North Grenville 285 County Road 44, Box 130, Kemptville, ON, K0G 1J0 T(613) 258-9569 F(613) 258-9620 npeckford@northgrenville.on.ca



Schedule 5W-6 Enbridge Gas Community Expansion Project Proposal



Commission de l'Énergie de l'Ontario



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, to construct works to supply gas to the

Township of North Grenville.

This certificates replaces the certificates of the former municipalities that are now within the Township of North Grenville.

BATED at Toronto, January 6, 2004.

ONTARIO ENERGY BOARD

and Blidge

Paul B. Pudge Assistant Secretary

DocID: OEB: 1315N-0

Schedule 5X 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: Camden East, Yarker, Tamworth and Erins	ville Community Expansion Project	
Address of Head Office:	Telephone Number:	
50 Keil Drive North	519-436-4600	
	319-430-4000	
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.

following: communities to be would serve any on-reserve of each community by reside sectors; routing; length of p	Indigenous commuential, commercial/	unities; existing population institutional and industrial
Enbridge Gas is proposing to pro Camden East, Yarker, Tamworth proposed facilities will provide ac (941 residential, 66 commercial /	and Erinsville in the T cess to natural gas to	ownship of Stone Mills. The a forecasted 1,022 customers
The proposed tie-in point will be rethe Township of Stone Mills connictation will be required. The propopolyethylene pipe, 4,050 m of 4" m of 4" steel pipe.	ecting to existing 8" st osed distribution pipeli	teel pipeline at which a large
The proposed distribution system	will extend alon	ng and
up to in the Township		
() to the commu	nity of Camden East a	ınd on
to include and		
include,		and as well as
community of Tamworth up to		to reach the
community of Tamworth up to	and	The system will
extend along to reach	i tile community of Em	illsville up to
·		
There will be no reinforcement re	quired for the system.	
There are 10 class-7 distribution	•	
 near the intersection of 		
 near the intersection of 		
 near the intersection of 		_
 near the intersection of 		
 near the intersection of 		
 near the intersection of 	and	
 near the intersection of 	and	in the Township of Loyalis
 near the intersection of 	and	 in the Township of Loyalis
 near the intersection of 	and	_
In addition, there are 2 small dist	ibution etatione requir	ad. The first station to be built
In addition, there are 2 small distinear the intersection of		

The approximate length and size of the distribution pipelines required:

Pipe Type	Diameter (NPS)	Length (m)
Polyethylene	2	66,000

The approximate length and size of the supply laterals required:

Pipe Type	Diameter (NPS)	Length (m)
Polyethylene	4	4,050
Steel	2	34,000
Steel	4	12,900

Please refer to Schedule 5X-1 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 5X-2, 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 5X-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 5X-3, 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 5X-4 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.
	No letter of support has been provided by the local government in time for this project submission.
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 5X-6 for Enbridge's CPCNs for the Township of Stone Mills (EB-2007-0024) and the Township of Loyalist (EB-2007-0022) which cover the entire area of the proposed project.

Part IV – Cost of Project 4.1 Confirm that the 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 5X-2, 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 5X-2, Table 4.3.

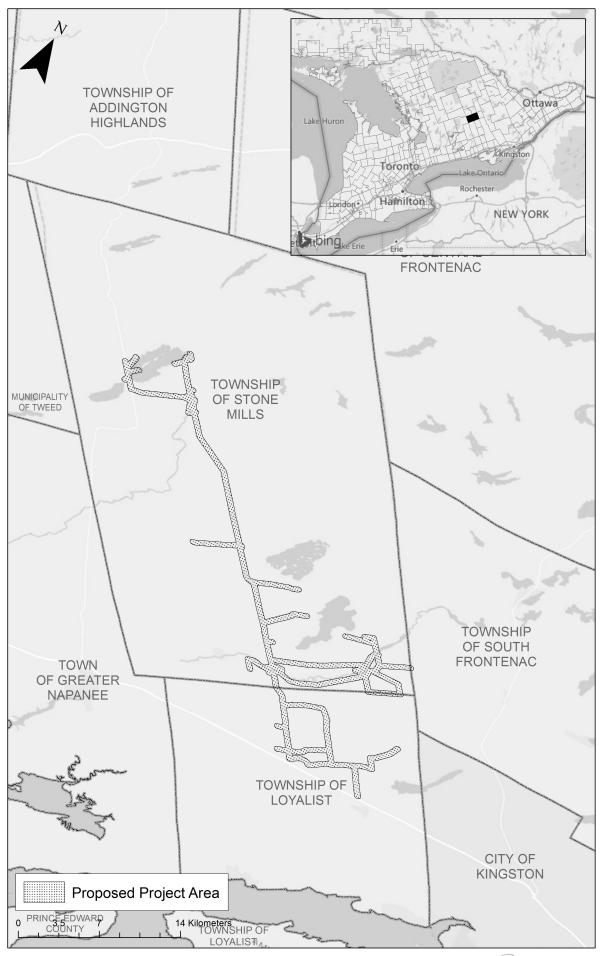
Part \	Part V – Section 36.2 Funding		
5.1	Provide the total amount of section 36.2 funding needed to support the project.		
	\$49,492,017		
5.0	Please refer to Schedule 5X-2, Table 5.1.		
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.		
	\$48,427		
5.0	Please refer to Schedule 5X-2, Table 5.2.		
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.		
	\$12.90		
	Please refer to Schedule 5X-2, 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 5X-2, 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 5X-2, 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 5X-2, 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 5X-4.

Schedule 5X-1 Enbridge Gas Community Expansion Project Proposal





Schedule 5X-2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Camden East, Yarker, Tamworth, Erinsville

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over 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

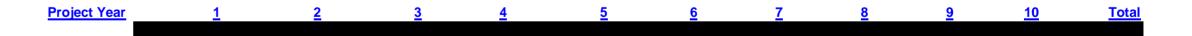
Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule 5X-2 Redacted

Project Year	<u>1</u> 289	2 217	<u>3</u> 144	<u>4</u> 73	<u>5</u> 73	<u>6</u> 29	<u>7</u> 29	8 29	9 29	<u>10</u> 29	<u>Total</u> 941
	-	35	10	5	5	2	2	2	1	1	63
	-	2	-	-	-	-	-	-	-	-	2
	-	1	-	-	-	-	-	-	-	-	1
_	-	8	7	-	-	-	-	-	-	-	15
	<u>289</u>	<u>263</u>	<u>161</u>	<u>78</u>	<u>78</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>30</u>	<u>30</u>	<u>1,022</u>
	289	552	713	791	869	900	931	962	992	1,022	
					Annual	Volumes - m3	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>	<u>Total</u>
	315,977	869,052	1,263,588	1,500,685	1,660,003	1,771,242	1,834,401	1,897,560	1,960,719	2,023,878	15,097,102
	-	55,000	125,200	147,300	161,100	171,600	178,800	186,000	190,700	192,900	1,408,600
	-	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
	-	10,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	170,000
_	-	400,000	1,150,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	12,050,000
	<u>315,977</u>	<u>1,384,052</u>	<u>2,658,788</u>	<u>3,267,985</u>	<u>3,441,103</u>	<u>3,562,842</u>	<u>3,633,201</u>	<u>3,703,560</u>	<u>3,771,419</u>	<u>3,836,778</u>	<u>29,575,702</u>
						ve Volumes - r					
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>	
	315,977	1,185,029	2,448,616	3,949,301	5,609,304	7,380,546	9,214,946	11,112,506	13,073,224	15,097,102	
	-	55,000	180,200	327,500	488,600	660,200	839,000	1,025,000	1,215,700	1,408,600	
	-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000	
	-	10,000	30,000	50,000	70,000	90,000	110,000	130,000	150,000	170,000	
_	-	400,000	1,550,000	3,050,000	4,550,000	6,050,000	7,550,000	9,050,000	10,550,000	12,050,000	
	<u>315,977</u>	<u>1,700,029</u>	<u>4,358,816</u>	<u>7,626,801</u>	<u>11,067,904</u>	<u>14,630,746</u>	<u>18,263,946</u>	<u>21,967,506</u>	<u>25,738,924</u>	<u>29,575,702</u>	





Year 1

Community Expansion Camden East, Yarker, Tamworth, Erinsville

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 5X-2 Redacted

\$ 49,492,017

Year 10 48,427

Year 10 \$ 12.90

Project Year 468,374 587,195 \$ 4,450,914 66,774 229,205 387,550 504,643 530,054 544,606 559,158 573,354 72,675 318,332 611,521 751,637 791,454 819,454 835,636 851,819 867,426 882,459 6,802,411 139,449 547,537 999,071 1,220,011 1,296,097 1,349,508 1,380,242 1,410,977 1,440,781 1,469,654 \$ 11,253,325

Net Present Value







Page 2 of 3

<u>1.00</u>

Community Expansion Camden East, Yarker, Tamworth, Erinsville InService Date: Nov-01-2023

EB-2019-0255 Schedule 5X-2 Redacted

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)

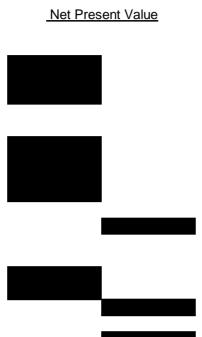
Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital
Change in Working Capital

Total Cash Outflow (D)

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



Schedule 5X-3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Camden East, Yarker, Tamworth and Erinsville

Total Forecasted Customers 1022 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 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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil Electricity F/A Electricity Baseboard Propane Wood	215 92 123 450 92	21% 9% 12% 44% 9%	\$ 5,000 \$ 12,000 \$ 600 \$ 3,500	\$ 1,998 \$ 1,998 \$ 1,611 N/A	\$ 1,495 \$ 1,495 \$ 1,495 N/A	\$ 503 \$ 503 \$ 116 \$ -	\$ 46,254 \$ 61,671 \$ 52,281 N/A	0.5 0.5 5.1 NA	3.6 3.6 -1.0	49 65 2,296	(522) 330 440 (441) NA
Other	51 1022	5% 100%		N/A \$ 8,395	N/A \$ 5,981		N/A \$ 437,514		3.8	3,817	(193)

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.

		Em	ission 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 Equivalen		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 5X-4 Enbridge Gas Community Expansion Project Proposal

Camden East, Yarker, Tamworth and Erinsville Community Expansion Project Pipeline Construction Schedule

Tool: Nove o		2022							2023									2024															
Task Name	Ja	an	Feb Mar	Apr I	May J	un Jul	Aug	Sep O	ct No	ov Dec	Jan	Feb	Mar	Apr	May	Jun	Jul A	ug S	ер О	oct N	ov D	ec J	an f	eb N	lar Apı	May	Jun	Jul	Aug	Sep	Oct 1	Nov I)ec
Environmental Assessments																																	
Permits & Approvals																																	
Leave to Construct Application and Approval																																	
Pre-Construction, Construction and Testing																																	
In Service																																	

Schedule 5X-6 Enbridge Gas Community Expansion Project Proposal

EB-2007-0024

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 Stone Mills

This certificate replaces the certificates of the former townships that are now within the Township of Stone Mills.

DATED at Toronto, April 10, 2007

ONTARIO ENERGY BOARD

Original signed by

Neil McKay Manager, Facilities Applications

EB-2007-0022

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

Loyalist Township

This certificate replaces the certificates of the former townships that are now within Loyalist Township.

DATED at Toronto, April 10, 2007

ONTARIO ENERGY BOARD

Original signed by

Neil McKay Manager, Facilities Applications

Schedule 5Y Enbridge Gas Community Expansion Project Proposal

Dorion

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: Dorion 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 Township of Dorion within the Thunder Bay District. The proposed facilities will provide access to natural gas to a forecasted 38 customers (30 residential, 6 commercial / institutional, 1 intensive agricultural and 1 industrial). The proposed tie-in point will be along the _____ of the ___ connecting to an existing TC Energy pipeline. The proposed distribution pipeline will consist of 9,226 m of 2" polyethylene pipe and extend _____ along _____ and partially to _____ and ____ A new distribution station is required to tap into the existing TC Energy pipeline. The approximate length and size of the distribution pipelines required: Pipe Type Diameter (NPS) Length (m) Polyethylene 9,226 Please refer to Schedule 5Y-1 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 5Y-2, 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 5Y-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 5Y-3, 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 5Y-4 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 5Y-5.
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 Dorion. Enbridge Gas does have franchise agreements and CPCNs for adjacent municipalities including the Township of Red Rock and the Township of Nipigon.

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 5Y-2, 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 5Y-2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$4,310,381
	Please refer to Schedule 5Y-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$113,431
	Please refer to Schedule 5Y-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$18.06
	Please refer to Schedule 5Y-2, 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 5Y-2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

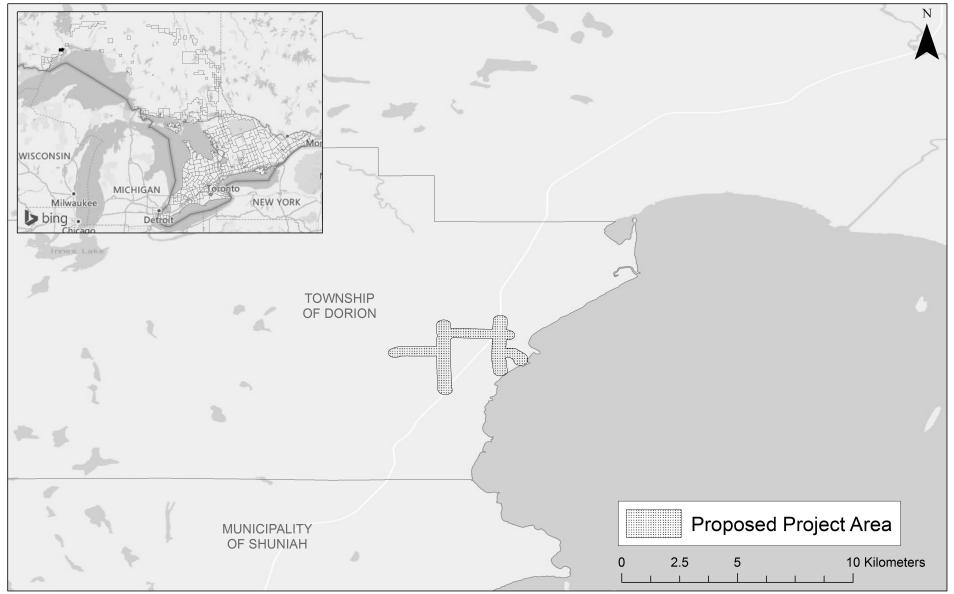
Part '	VII – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue 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 5Y-2, 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 5Y-2, 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							
	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 5Y-4.							

Schedule 5Y-1 Enbridge Gas Community Expansion Project Proposal

Dorion

Dorion (Outside Thunder Bay)





Schedule 5Y-2 Enbridge Gas Community Expansion Project Proposal

Dorion

Community Expansion Dorion

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability 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 5Y-2 Redacted

Project Year	1 9 - - - - 9	2 7 4 1 1 1 14 23	3 4 1 - - - <u>5</u> 28	4 2 - - - 2 30	\$\frac{5}{2}\$ 2 32	6 2 - - - 2 34	7 1 - - - - 1 35	8 1 - - - - 1 36	9 1 - - - - 1 37	10 1 - - - 1 38	Total 30 5 1 1 3 38
						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>
	9,900	27,500	39,600	46,200	50,600	55,000	58,300	60,500	62,700	64,900	475,200
	-	5,800	12,700	13,800	13,800	13,800	13,800	13,800	13,800	13,800	115,100
	-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
	-	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85,000
	-	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
	<u>9,900</u>	<u>113,300</u>	212,300	220,000	<u>224,400</u>	228,800	<u>232,100</u>	<u>234,300</u>	<u>236,500</u>	238,700	<u>1,950,300</u>
	Cumulative Volumes - m3										
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>	
<u>i roject rear</u>	9,900	37,400	77,000	123,200	173,800	228,800	287,100	347,600	410,300	475,200	
	3,300	5,800	18,500	32,300	46,100	59,900	73,700	87,500	101,300	115,100	
	_	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000	
	_	5,000	15,000	25,000	35,000	45,000	55,000	65,000	75,000	85,000	
	_	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000	
	<u>9,900</u>	123,200	335,500	<u>555,500</u>	779,900	1,008,700	1,240,800	1,475,100	<u>1,711,600</u>	<u>1,950,300</u>	
	<u> </u>	<u>. = 0; = 0 0</u>	555,550	200,000	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	.,000,.00	<u>.,= .0,000</u>	<u>.,,</u>	<u>.,,</u>	.,000,000	





Year 1

Community Expansion Dorion

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 5Y-2 Redacted

\$ 4,310,381

<u>Year 10</u> 113,431

Year 10 \$ 18.06

Project Year 28,057 29,447 \$ 233,735 2,085 13,449 23,887 25,509 26,435 27,362 28,520 28,984 2,277 26,059 48,829 50,600 51,612 52,624 53,383 53,889 54,395 54,901 448,569 4.362 39,508 72,716 76,109 78,047 79,986 81,440 82,409 83,379 <u>84,348</u> \$ 682,304

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 5Y-2 Redacted

Schedule 5Y-3 Enbridge Gas Community Expansion Project Proposal

Dorion

Section 3.4 Dorion

Total Forecasted Customers 38 Penetration Rate 65%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer ¹	Estimated Conversion Cost ²	(existing fliel)	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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	8	21%	\$ 5,000	\$ 2,787	\$ 1,495	\$ 1,292	\$ 10,311	6.6	-2.4	52	(19)
Electricity F/A	3	9%	· ·								12
Electricity Baseboard	5	12%							3.6	5	16
Propane	17	44%	\$ 600	\$ 1,611	\$ 1,495	\$ 116	\$ 1,944	5.1	-1.0	85	(16)
Wood	3	9%	\$ 3,500	N/A	N/A	\$ -	N/A	. NA	NA NA	NA NA	NA
Other	2	5%	\$ 5,000	N/A	N/A	\$ -	N/A	· [
Total	38	100%	\$ 31,100	\$ 8,395	\$ 5,981	\$ 2,414	\$ 16,268	12.7	3.8	142	(7)

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.

		Emi	ission 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	0.680				
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 5Y-4 Enbridge Gas Community Expansion Project Proposal

Dorion

Dorion Community Expansion Project Pipeline Construction Schedule

Task Name		2022						2023						2024																					
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct 1	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												T																							
In Service																																			

Schedule 5Y-5 Enbridge Gas Community Expansion Project Proposal

Dorion



170 Dorion Loop Road Dorion, ON POT 1K0

E - mavis@doriontownship.ca P - 807-857-2289 F - 807-857-2203

July 13, 2020

Dear Mr. Skaarup,

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

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 Dorion, I would like to formally express our interest to have the Township of Dorion 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.

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,

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Township of Dorion

Schedule 5Z 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: Douglas 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.

	I – Description of and Sup	oport for Project		
3.1	Provide a general overvi	ew of the project, whi	ch is to include the	
Redacted	following: communities t	to be connected, incl	uding whether the project	
	would serve any on-rese	rve Indigenous comn	nunities; existing populatior	1
	of each community by re	sidential, commercia	I/institutional and industrial	
	sectors; routing; length	of pipeline; and nomi	nal pipe size.	
	Enbridge Gas is proposing to			
			The proposed facilities will prov	
	•		(128 residential, 24 commercial /	
	institutional and 1 industrial).			
	The proposed project will tie-	in to an existing NPS 12	steel extra high pressure pipelin	e
			and to an existing	
	NPS 8 steel extra high press	ure pipeline on	just of	,
	to run approximately 8	300 m along	to the proposed station at the	
	intersection ofa			
			run along	
			ion system will cover	
	•	•	to include	,
	and	•		
	The approximate length and	size of the supply lateral	s required:	
	The approximate length and	oizo oi tilo ouppiy latoral	o roquirou.	
	Pipe Type	Diameter (NPS)	Length (m)	
	Steel	2	762	
	The approximate length and	size of the distribution pi	pelines required:	
		1		
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	2	11,868	
	Polyethylene	4	16,058	
		746 5 64		
	Please refer to Schedule 5	2-1 for Project Map.		
3.2			f the number of customer	
J	attachments over the ten			
	commercial/institutional		_	
	Indicate for each custom		service to be provided	
	would be firm or interrup	otible.		
	Please refer to Schedule 5	Z-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 5Z-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 5Z-3, 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 5Z-4 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.
	No letter of support has been provided by the local government in time for this project submission.

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 5Z-6 for Enbridge's CPCN for the Township of Admaston / Bromley (EB-2018-0238) 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 5Z-2, 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 5Z-2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$12,756,909
	Please refer to Schedule 5Z-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$83,378
	Please refer to Schedule 5Z-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$22.58
	Please refer to Schedule 5Z-2, 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 5Z-2, 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).

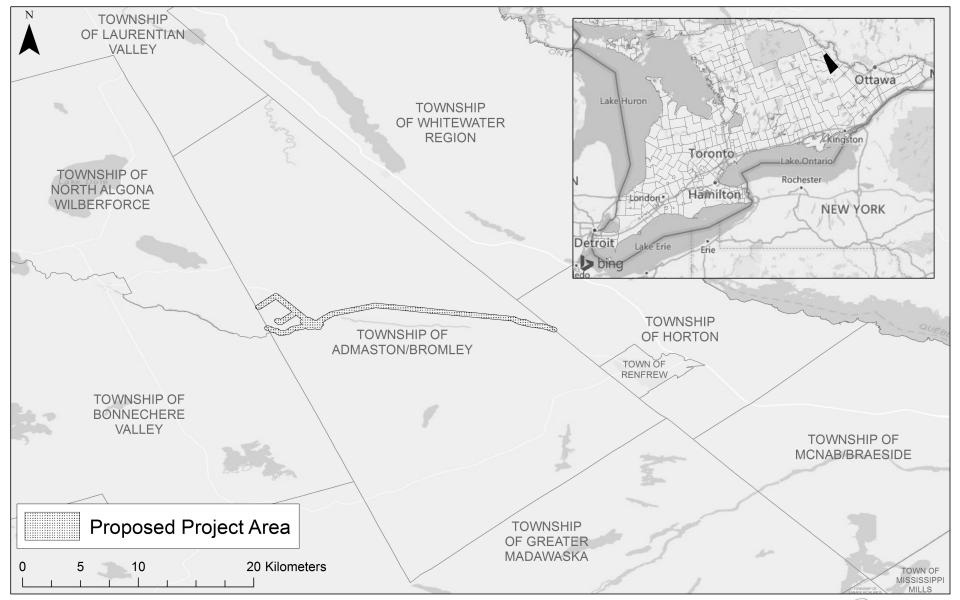
Please refer to Schedule 5Z-2, Table 7.1.

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 5Z-2, 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 5Z-4.

Schedule 5Z-1 Enbridge Gas Community Expansion Project Proposal





Schedule 5Z-2 Enbridge Gas Community Expansion Project Proposal

												Redacted	
Table 3.2 - Customer 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> 6	<u>6</u> 8	<u>7</u>	<u>8</u>	<u>9</u> 7	<u>10</u> 7	<u>Total</u>
Residential	Firm		34	31	12	8	6	8	7	8	7	7	128
Commercial	Firm		-	9	5	1	1	-	-	-	-	-	16
Institutional	Firm		-	1	-	-	-	-	-	-	-	-	1
Agricultural	Firm		-	4	1	1	1	-	-	-	-	-	7
Industrial	Firm		-	1	-	-	-	-	-	-	-	-	1
Total Customers			<u>34</u>	<u>46</u>	<u>18</u>	<u>10</u>	<u>8</u>	<u>8</u>	<u>7</u>	<u>8</u>	<u>7</u>	<u>7</u>	<u>153</u>
Cumulative Customers			34	80	98	108	116	124	131	139	146	153	
Table 3.3 - Annual and Cumulative Volumes Over The Rate Stability Period (m3)													
							Annua	al 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			40,800	118,800	170,400	194,400	211,200	228,000	246,000	264,000	282,000	298,800	2,054,400
Commercial			-	17,200	45,500	57,800	60,200	61,400	61,400	61,400	61,400	61,400	487,700
Institutional			-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
Agricultural			-	12,400	29,800	39,800	49,800	54,800	54,800	54,800	54,800	54,800	405,800
Industrial			-	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
Total Volumes			40,800	223,400	395,700	442,000	471,200	494,200	512,200	530,200	548,200	565,000	4,222,900
								tive Volumes					
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			40,800	159,600	330,000	524,400	735,600	963,600	1,209,600	1,473,600	1,755,600	2,054,400	
Commercial			-	17,200	62,700	120,500	180,700	242,100	303,500	364,900	426,300	487,700	
Institutional			-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000	
Agricultural			-	12,400	42,200	82,000	131,800	186,600	241,400	296,200	351,000	405,800	
Industrial			-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000	
Total Volumes			<u>40,800</u>	<u>264,200</u>	<u>659,900</u>	<u>1,101,900</u>	<u>1,573,100</u>	2,067,300	2,579,500	3,109,700	3,657,900	<u>4,222,900</u>	•
Table 4.2 - Total Capital Costs At End Of The Rate Stability Period													
Tubio 112 Total Supital Socio 7tt Ella St The Hate Stability Forfice													
			<u>Year 10</u>										
Total Capital Costs			<u>1001 10</u>										
Total Capital Costs													
Table 4.3 - Revenue Requirement Over The Rate Stability Period													
		Drainet Veer		•	•		_	_	-	•	•	40	Tetal
		Project Year	<u> </u>	<u> </u>	<u>3</u>	4	<u>2</u>	<u> </u>		<u> </u>	<u> </u>	<u>10</u>	<u>Total</u>
Revenue Requirement													
			<u>Year 10</u>										

EB-2019-0255

Schedule 5Z-2

Grant Report - OEB

Douglas

InService Year

Closing Rate Base (net of proposed Section 36.2 funding)

2023

Grant Report - OEB Douglas

InService Year

ice Year 2023

EB-2019-0255 Schedule 5Z-2 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)

\$ 12,756,909

Year 10 \$ 83,378

<u>Year 10</u> 22.58

Project Year Total 7,149 649,580 32,739 57,429 66,654 72,183 76,419 79,573 82,727 85,881 88,825 9,384 51,382 91,011 101,660 108,376 113,666 117,806 121,946 126,086 129,950 971,267 16,533 84,121 <u>148,440</u> <u>168,314</u> 180,559 <u>190,085</u> <u>197,379</u> 204,673 <u>211,967</u> 218,775 1,620,847

Net Present Value







Douglas

InService Year 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 5Z-2 Redacted

Schedule 5Z-3 Enbridge Gas Community Expansion Project Proposal

EB-2019-0255 Section 3.4 Douglas Schedule 5Z-3 153 65%

Penetration Rate

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 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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	32	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 50,436	7.2	-2.7	230	(86)
Electricity F/A	14	9%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 9,728	0.6	3.9	8	54
Electricity Baseboard	18	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 12,970	0.6	3.9	11	72
Propane	67	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 19,074	5.6	-1.1	376	(73)
Wood	14	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	NA	NA	NA
Other	8	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	153	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 92,208	13.9	4.1	625	(34)

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 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.

Total Forecasted Customers

		Er	mission 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 5Z-4 Enbridge Gas Community Expansion Project Proposal

Douglas Community Expansion Project Pipeline Construction Schedule

Task Namo						20	22										20	23											20	24					
Task Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct I	Nov De	ec Ja	an 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												F																							
Leave to Construct Application and Approval																																			
Pre-Construction, Construction and Testing																																			
In Service																																			

Schedule 5Z-6 Enbridge Gas Community Expansion Project Proposal

EB-2018-0238

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 Admaston/Bromley

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

DATED at Toronto, September 13, 2018

ONTARIO ENERGY BOARD

Pascale Duguay
Manager, Application Policy and Climate Change

Schedule 6A Enbridge Gas Community Expansion Project Proposal

Eganville

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: Eganville Community Expansion Project	t				
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.

rt II	I – Description of and Su	ipport for Project		
acted	Provide a general overver following: communities would serve any on-resort of each community by resectors; routing; length	to be connected, incluerve Indigenous commesidential, commercia	iding whether the pro nunities; existing popi I/institutional and indi	ulation
	Enbridge Gas is proposing to within the Township of Bon () in the Township of Bon provide access to natural commercial / institutional and	nechere Valley as well as ownship of Admaston / B gas to a forecasted 6	along the supply lateral romley. The proposed fa	on acilities will
	The proposed project will tie and proposed station location at proposed station, the lateral	This tie-in will bring the intersection of	gas from the existing sys	stem to the
	In the Township of North A	lgona Wilberforce, propos	ed facilities will extend al	ong
		,		
	In the Township of Admasto	n / Bromley, proposed faci and	lities will extend along	
	The approximate length and	size of the supply laterals	s required.	
	Pipe Type	Diameter (NPS)	Length (m)	
	Steel	4	1,154	
	The approximate length and	d size of the distribution pip	pelines required:	
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	2	23,824	
	Polyethylene	4	18,655	
	Polyethylene	6	9,644	
	Polyethylene	8	7,312	

	Please refer to Schedule 6A-1 for Project Map.
3.2	Provide the annual and cumulative forecast of the number of customer attachments over the ten-year rate stability period by residential, commercial/institutional and industrial sectors for each community. Indicate for each customer type whether the service to be provided would be firm or interruptible.
	Please refer to Schedule 6A-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 6A-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.
3.4	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

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 6A-4 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.
	No letter of support has been provided by the local government in time for this project submission.
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 6A-6 for Enbridge's CPCN for the Township of Admaston / Bromley (EB-2018-0238) which covers the eastern portion of the proposed project.
	Enbridge Gas does not currently have a CPCN for areas of the proposed project within the Township of Bonnechere Valley and the Township of North Algona Wilberforce.
Part I	V – 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 6A-2, 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 6A-2, 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.		
	\$26,169,413		
	Please refer to Schedule 6A-2, Table 5.1.		
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.		
	\$38,827		
	Please refer to Schedule 6A-2, Table 5.2.		
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.		
	\$9.32		
	Please refer to Schedule 6A-2, 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.

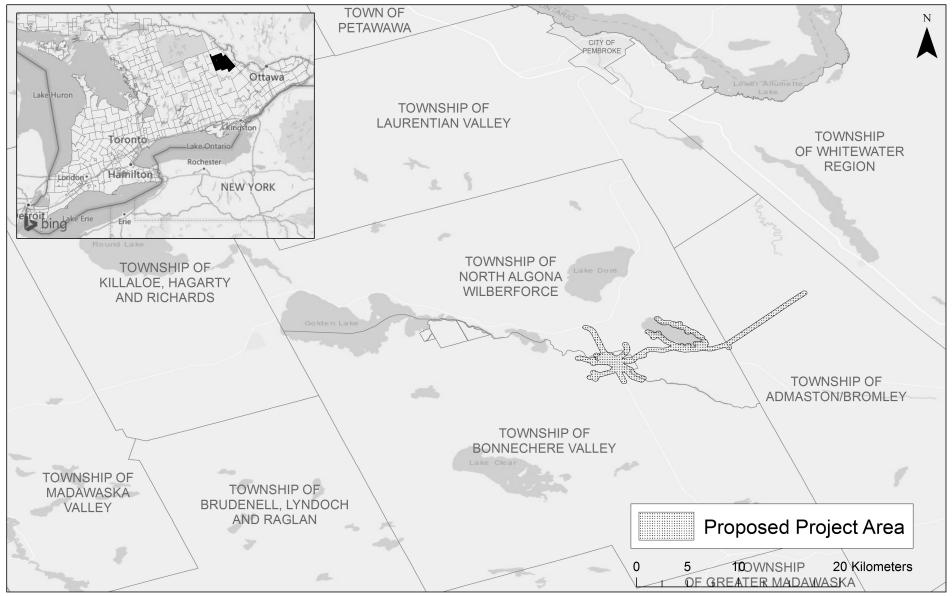
Please refer to Schedule 6A-2, Table 6.1.

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

Part \	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 6A-2, 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 6A-2, Table 7.2.		

Part \	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 Agreements and Certificates of Public Convenience and Necessity (Township of Bonnechere Valley, Township of North Algona Wilberforce)		
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 6A-4.		

Schedule 6A-1 Enbridge Gas Community Expansion Project Proposal





Schedule 6A-2 Enbridge Gas Community Expansion Project Proposal

InService Date: Nov-01-2023												Schedule 6/ Redacted	
Table 3.2 - Customer 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		157	139	53	37	30	36	31	36	32	30	581
Commercial	Firm		-	41	13	7	5	3	3	3	2	2	79
Institutional	Firm		-	2	1	-	-	-	-	-	-	-	3
Agricultural	Firm		-	1	-	-	-	-	-	-	-	-	1
Industrial	Firm		-	3	2	1	1	1	1	1	-	-	10
Total Customers			<u>157</u>	<u>186</u>	<u>69</u>	<u>45</u>	<u>36</u>	<u>40</u>	<u>35</u>	<u>40</u>	<u>34</u>	<u>32</u>	<u>674</u>
Cumulative Customers			157	343	412	457	493	533	568	608	642	674	
Table 3.3 - Annual and Cumulative Volumes Over The Rate Stability Period (m3)													
		.	_				Annu	ial Volumes -	m3 _	_			
Customer Type		Project Year	100 000	2	<u>3</u>	4	<u>5</u>	<u>6</u>	<u>7</u>	8	9	<u>10</u>	<u>Total</u>
Residential			182,093	525,519	748,350	852,986	930,863	1,007,540	1,085,417	1,163,294	1,242,371	1,314,248	9,052,676
Commercial			-	80,000	187,100	231,500	259,900	279,700	297,100	314,500	326,900	334,300	2,311,000
Institutional			-	50,000	125,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,225,000
Agricultural			-	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85,000
Industrial			-	150,000	400,000	550,000	650,000	750,000	850,000	950,000	1,000,000	1,000,000	6,300,000
Total Volumes			<u>182,093</u>	<u>810,519</u>	<u>1,470,450</u>	<u>1,794,486</u>	<u>2,000,763</u>	<u>2,197,240</u>	<u>2,392,517</u>	<u>2,587,794</u>	<u>2,729,271</u>	<u>2,808,548</u>	<u>18,973,676</u>
Customer Tune		Drainet Veer	4	2	2	4	Cumula	ative Volumes		0	0	40	
Customer Type		Project Year	<u>1</u>	<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>	
Residential		Project Year	182,093	707,611	1,455,961	2,308,946	5 3,239,809	<u>6</u> 4,247,348	<u>7</u> 5,332,765	6,496,058	7,738,429	9,052,676	
Residential Commercial		Project Year	182,093	707,611 80,000	1,455,961 267,100	2,308,946 498,600	3,239,809 758,500	4,247,348 1,038,200	7 5,332,765 1,335,300	6,496,058 1,649,800	7,738,429 1,976,700	9,052,676 2,311,000	
Residential Commercial Institutional		Project Year	182,093 - -	707,611 80,000 50,000	1,455,961 267,100 175,000	2,308,946 498,600 325,000	5 3,239,809 758,500 475,000	4,247,348 1,038,200 625,000	5,332,765 1,335,300 775,000	6,496,058 1,649,800 925,000	7,738,429 1,976,700 1,075,000	9,052,676 2,311,000 1,225,000	
Residential Commercial Institutional Agricultural		Project Year	182,093	707,611 80,000 50,000 5,000	1,455,961 267,100 175,000 15,000	2,308,946 498,600 325,000 25,000	3,239,809 758,500 475,000 35,000	4,247,348 1,038,200 625,000 45,000	5,332,765 1,335,300 775,000 55,000	6,496,058 1,649,800 925,000 65,000	7,738,429 1,976,700 1,075,000 75,000	9,052,676 2,311,000 1,225,000 85,000	
Residential Commercial Institutional Agricultural Industrial		Project Year	182,093 - - - -	707,611 80,000 50,000 5,000 150,000	1,455,961 267,100 175,000 15,000 550,000	2,308,946 498,600 325,000 25,000 1,100,000	5 3,239,809 758,500 475,000 35,000 1,750,000	4,247,348 1,038,200 625,000 45,000 2,500,000	5,332,765 1,335,300 775,000 55,000 3,350,000	6,496,058 1,649,800 925,000 65,000 4,300,000	7,738,429 1,976,700 1,075,000 75,000 5,300,000	9,052,676 2,311,000 1,225,000 85,000 6,300,000	
Residential Commercial Institutional Agricultural		Project Year	182,093 - -	707,611 80,000 50,000 5,000	1,455,961 267,100 175,000 15,000	2,308,946 498,600 325,000 25,000	3,239,809 758,500 475,000 35,000	4,247,348 1,038,200 625,000 45,000	5,332,765 1,335,300 775,000 55,000	6,496,058 1,649,800 925,000 65,000	7,738,429 1,976,700 1,075,000 75,000	9,052,676 2,311,000 1,225,000 85,000	
Residential Commercial Institutional Agricultural Industrial		Project Year	182,093 - - - -	707,611 80,000 50,000 5,000 150,000	1,455,961 267,100 175,000 15,000 550,000	2,308,946 498,600 325,000 25,000 1,100,000	5 3,239,809 758,500 475,000 35,000 1,750,000	4,247,348 1,038,200 625,000 45,000 2,500,000	5,332,765 1,335,300 775,000 55,000 3,350,000	6,496,058 1,649,800 925,000 65,000 4,300,000	7,738,429 1,976,700 1,075,000 75,000 5,300,000	9,052,676 2,311,000 1,225,000 85,000 6,300,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	182,093 - - - -	707,611 80,000 50,000 5,000 150,000	1,455,961 267,100 175,000 15,000 550,000	2,308,946 498,600 325,000 25,000 1,100,000	5 3,239,809 758,500 475,000 35,000 1,750,000	4,247,348 1,038,200 625,000 45,000 2,500,000	5,332,765 1,335,300 775,000 55,000 3,350,000	6,496,058 1,649,800 925,000 65,000 4,300,000	7,738,429 1,976,700 1,075,000 75,000 5,300,000	9,052,676 2,311,000 1,225,000 85,000 6,300,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	182,093 - - - - - 182,093	707,611 80,000 50,000 5,000 150,000	1,455,961 267,100 175,000 15,000 550,000	2,308,946 498,600 325,000 25,000 1,100,000	5 3,239,809 758,500 475,000 35,000 1,750,000	4,247,348 1,038,200 625,000 45,000 2,500,000	5,332,765 1,335,300 775,000 55,000 3,350,000	6,496,058 1,649,800 925,000 65,000 4,300,000	7,738,429 1,976,700 1,075,000 75,000 5,300,000	9,052,676 2,311,000 1,225,000 85,000 6,300,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period		Project Year	182,093 - - - - - 182,093	707,611 80,000 50,000 5,000 150,000	1,455,961 267,100 175,000 15,000 550,000	2,308,946 498,600 325,000 25,000 1,100,000	5 3,239,809 758,500 475,000 35,000 1,750,000	4,247,348 1,038,200 625,000 45,000 2,500,000	5,332,765 1,335,300 775,000 55,000 3,350,000	6,496,058 1,649,800 925,000 65,000 4,300,000	7,738,429 1,976,700 1,075,000 75,000 5,300,000	9,052,676 2,311,000 1,225,000 85,000 6,300,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period Total Capital Costs			182,093 - - - - - 182,093	707,611 80,000 50,000 5,000 150,000	1,455,961 267,100 175,000 15,000 550,000	2,308,946 498,600 325,000 25,000 1,100,000	5 3,239,809 758,500 475,000 35,000 1,750,000	4,247,348 1,038,200 625,000 45,000 2,500,000	5,332,765 1,335,300 775,000 55,000 3,350,000	6,496,058 1,649,800 925,000 65,000 4,300,000	7,738,429 1,976,700 1,075,000 75,000 5,300,000	9,052,676 2,311,000 1,225,000 85,000 6,300,000 18,973,676	Total
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period Total Capital Costs		Project Year Project Year	182,093 - - - - - 182,093	707,611 80,000 50,000 5,000 150,000	1,455,961 267,100 175,000 15,000 550,000	2,308,946 498,600 325,000 25,000 1,100,000	5 3,239,809 758,500 475,000 35,000 1,750,000	4,247,348 1,038,200 625,000 45,000 2,500,000	5,332,765 1,335,300 775,000 55,000 3,350,000	6,496,058 1,649,800 925,000 65,000 4,300,000	7,738,429 1,976,700 1,075,000 75,000 5,300,000	9,052,676 2,311,000 1,225,000 85,000 6,300,000	<u>Total</u>
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			182,093 - - - - - 182,093	707,611 80,000 50,000 5,000 150,000	1,455,961 267,100 175,000 15,000 550,000	2,308,946 498,600 325,000 25,000 1,100,000	5 3,239,809 758,500 475,000 35,000 1,750,000	4,247,348 1,038,200 625,000 45,000 2,500,000	5,332,765 1,335,300 775,000 55,000 3,350,000	6,496,058 1,649,800 925,000 65,000 4,300,000	7,738,429 1,976,700 1,075,000 75,000 5,300,000	9,052,676 2,311,000 1,225,000 85,000 6,300,000 18,973,676	Total

EB-2019-0255

Community Expansion Eganville

Community Expansion

Eganville

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 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 6A-2 Redacted

\$ 26,169,413

<u>Year 10</u> 38,827

<u>Year 10</u> 9.32

Project Year 388,710 \$ 2,679,114 32,575 129,267 218,684 258,460 284,646 308,278 331,069 353,860 373,564 41,881 186,419 338,203 412,732 460,175 505,365 550,279 595,193 627,732 645,966 4,363,945 74,456 <u>315,687</u> <u>556,888</u> <u>671,191</u> <u>744,821</u> <u>813,643</u> <u>881,348</u> 949,052 1,001,296 1,034,676 \$ 7,043,059

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 6A-2 Redacted

Schedule 6A-3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Eganville

Total Forecasted Customers 674 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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	142	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 222,182	7.2	-2.7	1,015	(379)
Electricity F/A	61	9%									237
Electricity Baseboard	81	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 57,138	0.6	3.9	47	317
Propane	297	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 84,024	5.6	-1.1	1,657	(323)
Wood	61	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	NA	NA	NA
Other	34	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	674	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 406,197	13.9	4.1	2,755	(148)

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.

		Er	mission 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 6A-4 Enbridge Gas Community Expansion Project Proposal

Eganville Community Expansion Project Pipeline Construction Schedule

Tools Nove o		2022						2023						2024																					
Task Name	Jan	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																																			
In Service																																			

Schedule 6A-5 Enbridge Gas Community Expansion Project Proposal

The Corporation of the Township of Bonnechere Valley

49 Bonnechere Street East P.O. Box 100 Eganville, Ontario KOJ 1T0



Phone (613) 628-3101 Fax (613) 628-1336 admin@eganville.com

July 17, 2020

Dear REGIONAL DIRECTOR,

Re: Expression of Support for Natural Gas Expansion to the Village of Eganville

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 Township of Bonnechere Valley 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 Bonnechere Valley, I would like to formally express our interest to have the Village of Eganville 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,

Annette Gilchrist

Annette Gilchrist, CMO, AOMC CAO, Township of Bonnechere Valley

Schedule 6A-6 Enbridge Gas Community Expansion Project Proposal

EB-2018-0238

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 Admaston/Bromley

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

DATED at Toronto, September 13, 2018

ONTARIO ENERGY BOARD

Pascale Duguay
Manager, Application Policy and Climate Change

Schedule 6B Enbridge Gas Community Expansion Project Proposal

Emsdale

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: Emsdale Community Expansion Project	t
Address of Head Office:	Tolophono Number
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:
Name of individual to Contact.	·
	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	oport for Project	
3.1 Redacted	of each community by re sectors; routing; length	to be connected, including the rve Indigenous communes idential, commercial/in of pipeline; and nominal	ng whether the project ities; existing population stitutional and industrial pipe size.
	Enbridge Gas is proposing to Emsdale within the Township natural gas to a forecasted 1 and 5 industrial).	o of Perry. The proposed fac	
	connecting to an existing 6" s on Emsdale to include service to	steel pipeline. The proposed	and and and distribution system will extend and will cross to,,,
	A new distribution station will	be required to serve the cor	mmunity.
	The approximate length and	size of the distribution pipelir	nes required:
	Pipe Type Polyethylene	Diameter (NPS)	Length (m) 22,114
	The approximate length and		
	Pipe Type	Diameter (NPS)	Length (m)
	Polyethylene	4	2,700
3.2	Please refer to Schedule 6 Provide the annual and of	, ,	e number of customer
	attachments over the ten commercial/institutional Indicate for each custom would be firm or interrup	and industrial sectors for er type whether the serv	or each community.
	Please refer to Schedule 6	B-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 6B-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 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 6B-3, 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 6B-4 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.
	No letter of support has been provided by the local government in time for this project submission.

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 6B-6 for Enbridge's CPCN for the Township of Perry (EBC 191) 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 6B-2, 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 6B-2, 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.
	\$8,949,644
	Please refer to Schedule 6B-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$48,376
	Please refer to Schedule 6B-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$9.50
	Please refer to Schedule 6B-2, 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 6B-2, 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 6B-2, Table 7.1.

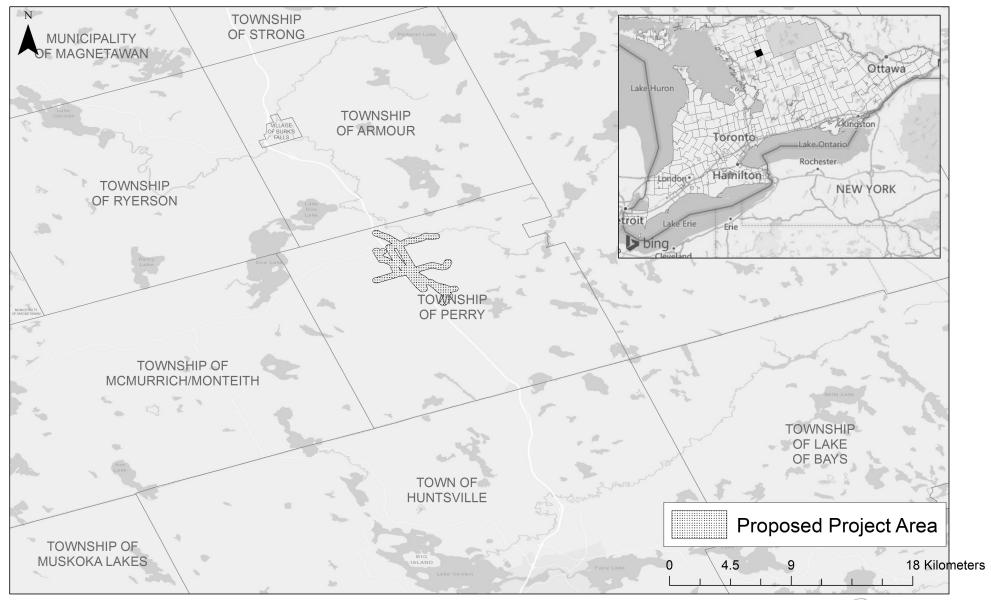
Provide, in a summary table that otherwise meets the requirements of section 7.1, the expected PI of the project without the proposed section 36.2 funding.

Please refer to Schedule 6B-2, Table 7.2.

Schedule 6B-1 Enbridge Gas Community Expansion Project Proposal

Emsdale

Emsdale (Township of Perry)





Schedule 6B-2 Enbridge Gas Community Expansion Project Proposal

Emsdale

Community Expansion Emsdale (Township of Perry)

InService Date: Nov-01-2023

Table 3.2 - Customer 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

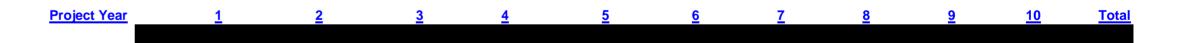
Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule 6B-2 Redacted

Project Year	<u>1</u>	2 38	<u>3</u> 26	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u> 5	<u>10</u> 5	<u>Total</u>
	51	38		12	12	6	6	5	5	5	166
	-	7	3	2	1	-	-	-	-	-	13
	-	1	-	-	-	-	-	-	-	-	1
	-	-	-	-	-	-	-	-	-	-	_
		3	2	-	- 10	-	-	-			5
	<u>51</u>	<u>49</u>	<u>31</u>	<u>14</u>	<u>13</u>	<u>6</u>	<u>6</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>185</u>
	51	100	131	145	158	164	170	175	180	185	
					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>
	55,139	151,436	220,554	261,393	287,152	306,311	318,870	330,649	341,649	352,649	2,625,800
	-	10,500	25,700	34,000	38,700	39,800	39,800	39,800	39,800	39,800	307,900
	-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
	-	-	-	-	-	-	-	-	-	-	-
	-	150,000	400,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	4,050,000
	<u>55,139</u>	<u>336,936</u>	<u>696,254</u>	<u>845,393</u>	<u>875,852</u>	<u>896,111</u>	<u>908,670</u>	<u>920,449</u>	<u>931,449</u>	<u>942,449</u>	<u>7,408,700</u>
					Cumulativ	e Volumes - m	13				
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>	
	55,139	206,575	427,129	688,521	975,673	1,281,983	1,600,853	1,931,502	2,273,151	2,625,800	
	-	10,500	36,200	70,200	108,900	148,700	188,500	228,300	268,100	307,900	
	-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000	
	-	-	-	-	-	-	-	-	-	-	
	-	150,000	550,000	1,050,000	1,550,000	2,050,000	2,550,000	3,050,000	3,550,000	4,050,000	
_	<u>55,139</u>	<u>392,075</u>	<u>1,088,329</u>	<u>1,933,721</u>	2,809,573	<u>3,705,683</u>	<u>4,614,353</u>	<u>5,534,802</u>	<u>6,466,251</u>	<u>7,408,700</u>	





Year 10

Community Expansion Emsdale (Township of Perry)

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 6B-2 Redacted

\$ 8,949,644

Year 10 48,376

Year 10 \$ 9.50

Project Year 47,743 104,212 114,874 124,748 \$ 960,430 11,727 86,454 110,532 117,595 120,114 122,431 12,682 77,495 160,138 194,440 201,446 206,105 208,994 211,703 214,233 216,763 1,704,001 24,408 125,239 246,592 298,652 311,977 320,980 326,589 331,818 336,664 341,511 \$ 2,664,430

Net Present Value







<u>1.00</u>

Community Expansion Emsdale (Township of Perry) InService Date: Nov-01-2023

EB-2019-0255 Schedule 6B-2 Redacted

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

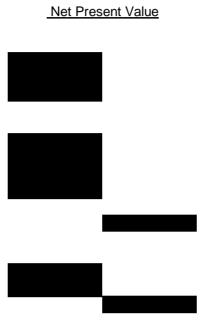
Income Tax Total Expenses (B)

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)



Schedule 6B-3 Enbridge Gas Community Expansion Project Proposal

Emsdale

Section 3.4 Emsdale

Total Forecasted Customers 185 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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	39	21%	\$ 5,000	\$ 2,787	\$ 1,495	\$ 1,292	\$ 50,198	6.6	-2.4	255	(94)
Electricity F/A	17	9%	\$ 5,000	\$ 1,998	\$ 1,495	\$ 503	\$ 8,373	0.5	3.6	9	60
Electricity Baseboard	22	12%	\$ 12,000	\$ 1,998	\$ 1,495	\$ 503	\$ 11,164	0.5	3.6	12	80
Propane	81	44%	\$ 600	\$ 1,611	\$ 1,495	\$ 116	\$ 9,464	5.1	-1.0	416	(80)
Wood	17	9%		N/A	N/A	\$ -	N/A		NA	NA	NA
Other	9	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	185	100%	\$ 31,100	\$ 8,395	\$ 5,981	\$ 2,414	\$ 79,198	12.7	3.8	691	(35)

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

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

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

Emission Factor Sources:

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

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

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

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

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

Rate 01 (Community Expansion, Non-FN)												
	Consumption Equivale		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 6B-4 Enbridge Gas Community Expansion Project Proposal

Emsdale

Emsdale Community Expansion Project Pipeline Construction Schedule

Took Nama		2022										2023											2024												
Task Name		Feb	Ma	r Apr	May	Jun	Jul	Aug	Sep (Oct N	lov De	c Jan	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						l																													
Pre-Construction, Construction and Testing																																			
In Service																																			

Schedule 6B-6 Enbridge Gas Community Expansion Project Proposal

Emsdale

F.

E.B.C. 191

Commission de l'Énergie de l'Ontario

IN THE MATTER OF the Ontario Energy Board Act, R.S.O. 1980, Chapter 332;

IN THE MATTER OF the Municipal Franchises Act, R.S.O. 1980, Chapter 309, Section 8 and amendments thereto;

AND IN THE MATTER OF an Application by ICG Utilities (Ontario) Ltd for a Certificate of Public Convenience and Necessity to construct works to supply and to supply gas in the Township of Perry, in the District of Parry Sound.

BEFORE:

C. A. Wolf Jr. Presiding Member

S. J. Wychowanec, Q.C. Chairman

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

UPON ICG Utilities (Ontario) Ltd ("ICG") having filed an Application dated May 19, 1989 with the Ontario Energy Board ("the Board") for a Certificate of Public Convenience and Necessity to construct works to supply and to supply gas in the Township of Perry;

AND UPON Notice of Application having been served upon the Clerk of the Township of Perry and having been published as directed by the Board;

AND UPON Notice of Hearing having been issued and delivered to the Applicant by the Board;

AND UPON the Application having been heard in Toronto on September 20, 1989 in the presence of Counsel for ICG and for the Board;

AND UPON the Board having issued an oral decision at the conclusion of the hearing, wherein the Board approved the Application;

IT IS THEREFORE ORDERED THAT:

- 1. A Certificate of Public Convenience and Necessity is hereby issued to ICG to construct works to supply and to supply gas in the Township of Perry.
- ICG shall pay the costs of the Board forthwith after these are fixed.

ISSUED AT Toronto this 23rd day of November, 1989.

ONTARIO ENERGY BOARD

S.A.C. Thomas Board Secretary

Schedule 6C 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: Field 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 II	rt III – Description of and Support for Project											
3.1 Redacted	i lovide a general overview of the project, which is to include the											
	Enbridge Gas is proposing to provide gas distribution service in the community of Field within the Municipality of West Nipissing. The proposed facilities will provide access to natural gas to a forecasted 143 customers (131 residential, 11 commercial / institutional and 1 industrial).											
	The proposed tie-in point will be near the intersection of and and connecting to an existing 12" steel pipeline. The proposed distribution system will extend via to West Nipissing (Field) and on to, and then to and											
	There will be no reinforcement required to accommodate additional loads for the system. A new station will be required in Field.											
	The approximate length and	size of the distribution pipe	lines required:									
	Pipe Type Polyethylene	Diameter (NPS)	Length (m) 7,840									
	The approximate length and	size of the supply laterals r	equired:									
	Pipe Type	Diameter (NPS)	Length (m)									
	Steel 2 14,300 Please refer to Schedule 6C-1 for Project Map.											
3.2	Provide the annual and of attachments over the ter commercial/institutional Indicate for each custom would be firm or interrup	n-year rate stability peri and industrial sectors her type whether the se	od by residential, for each community.									
	Please refer to Schedule 6	6C-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 6C-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 6C-3, 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 6C-4 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.
	No letter of support has been provided by the local government in time for this project submission.

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 6C-6 for Enbridge's CPCN for the Municipality of West Nipissing (RP-2002-0119 / EB-2002-0344) 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 6C-2, 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 6C-2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project. \$10,085,042
	Please refer to Schedule 6C-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$70,525
	Please refer to Schedule 6C-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$21.94
	Please refer to Schedule 6C-2, 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 6C-2, 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 6C-2, 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 6C-2, Table 7.2.

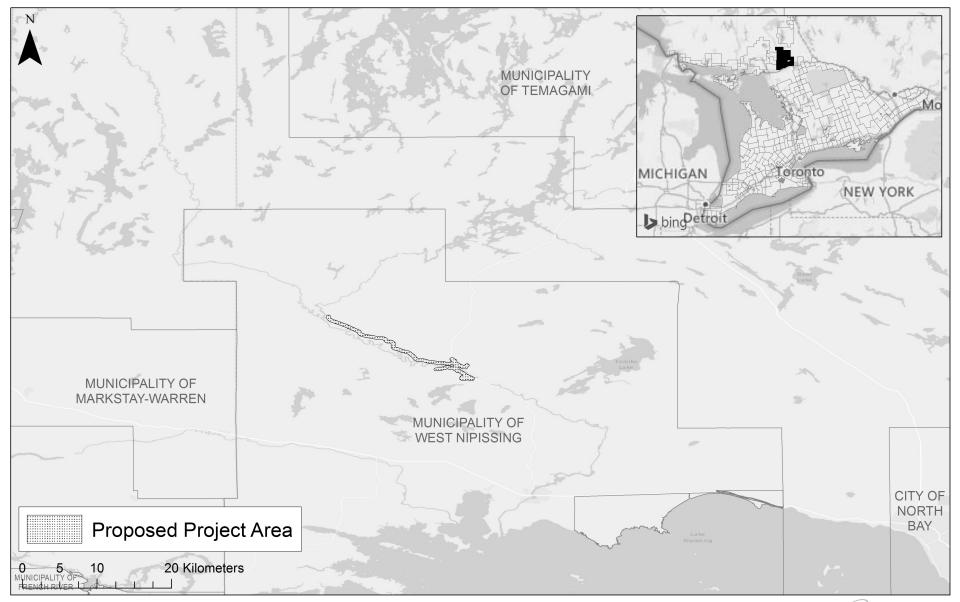
Part VIII – OEB Approvals

- 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
 - 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 6C-4.

Schedule 6C-1 Enbridge Gas Community Expansion Project Proposal

Field





Schedule 6C-2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Field (West Nipissing)

InService Date: Nov-01-2023

Table 3.2 - Customer Attachmen	s Over The Rate Stability Period
--------------------------------	----------------------------------

Customer Type	Firm / I7
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 6C-2 Redacted

Project Year	<u>1</u>	2 30	3 21	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	40	30		<u>4</u> 10	10	4	4	4	4	4	131
	-	6	2	1	1	-	-	-	-	-	10
	-	1	-	-	-	-	-	-	-	-	1
	-	-	-	-	-	-	-	-	-	-	-
	- 40	1	-	- 44	-	-	-	-	-	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	<u>40</u>	<u>38</u>	<u>23</u>	<u>11</u>	<u>11</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>143</u>
	40	78	101	112	123	127	131	135	139	143	
					Annual V	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>
	43,359	119,077	174,216	207,675	229,034	244,113	252,913	261,713	270,513	279,313	2,081,925
	-	9,400	22,400	27,100	29,300	30,400	30,400	30,400	30,400	30,400	240,200
	-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
	-	-	-	-	-	-	-	-	-	-	-
	-	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
	<u>43,359</u>	<u>203,477</u>	<u>346,616</u>	<u>384,775</u>	<u>408,334</u>	<u>424,513</u>	<u>433,313</u>	<u>442,113</u>	<u>450,913</u>	<u>459,713</u>	<u>3,597,125</u>
					Cumulative	e 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>	
	43,359	162,436	336,652	544,326	773,360	1,017,473	1,270,386	1,532,099	1,802,612	2,081,925	
	-	9,400	31,800	58,900	88,200	118,600	149,000	179,400	209,800	240,200	
	-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000	
	-	-	-	-	-	-	-	-	-	-	
	-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000	
	<u>43,359</u>	<u>246,836</u>	<u>593,452</u>	<u>978,226</u>	<u>1,386,560</u>	<u>1,811,073</u>	2,244,386	<u>2,686,499</u>	3,137,412	3,597,125	







Community Expansion Field (West Nipissing)

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 6C-2 Redacted

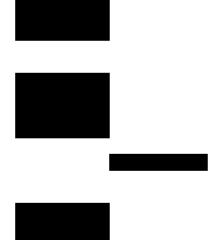
\$ 10,085,042

Year 10 70,525

Year 10 21.94

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>
	\$ 9,208	32,984	52,974	60,916	65,954	69,399	71,252	73,106	74,959	76,812	\$ 587,564
	9,973	46,800	79,722	88,498	93,917	97,638	99,662	101,686	103,710	105,734	827,339
	\$ 19.180	79,783	132,696	149,414	<u>159,870</u>	167,037	170,914	174.792	178,669	182,546	\$ 1,414,902

Net Present Value



<u>1.00</u>

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









Page 3 of 3

EB-2019-0255 Schedule 6C-2 Redacted

Schedule 6C-3 Enbridge Gas Community Expansion Project Proposal

Total Forecasted Customers 143 Penetration Rate 66%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer ¹	Estimated Conversion Cost ²		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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	30	21%	\$ 5,000	\$ 2,787	\$ 1,495	\$ 1,292	\$ 38,801	6.6	-2.4	197	(73)
Electricity F/A	13	9%	\$ 5,000	\$ 1,998	\$ 1,495	\$ 503	\$ 6,472	0.5	3.6	7	46
Electricity Baseboard	17	12%	\$ 12,000	\$ 1,998	\$ 1,495	\$ 503	\$ 8,629	0.5	3.6	9	62
Propane	63	44%	\$ 600	\$ 1,611	\$ 1,495	\$ 116	\$ 7,315	5.1	-1.0	321	(62)
Wood	13	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	NA	. NA	NA
Other	7	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	143	100%	\$ 31,100	\$ 8,395	\$ 5,981	\$ 2,414	\$ 61,218	12.7	3.8	534	(27)

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

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

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

Emission Factor Sources:

Natural gas, heating oil and propane CO2 factors: Guideline for Quantification, Reporting and Verification of GHG Emissions - Ontario Ministry of Environment, Conservation and Parks Natural gas, heating oil and propane CH4 and N2O factors: Canada's Greenhouse Gas Quantification Requirements, December 2019 - Environment and Climate Change Canada

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

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

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

	Rate 01 (Community Expansion, Non-FN)											
	Consumption Equival		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 6C-4 Enbridge Gas Community Expansion Project Proposal

Field Community Expansion Project Pipeline Construction Schedule

Task Name		2022							2023							2024																			
		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																																			1
Permits & Approvals																																			1
Leave to Construct Application and Approval																																			
Pre-Construction, Construction and Testing																																			
In Service																																			<u> </u>

Schedule 6C-6 Enbridge Gas Community Expansion Project Proposal



RP-2002-0119 EB-2002-0333 EB-2002-0344

IN THE MATTER OF the Municipal Franchises Act, R.S.O.1990, c. M.55, as amended;

AND IN THE MATTER OF an application by Union Gas Limited for an order approving the terms and conditions upon which the Corporation of the Municipality of West Nipissing is by by-law to grant Union Gas Limited the right to construct and operate works for the distribution of gas; the right to extend and add to the works; and the period for which such rights are granted;

AND IN THE MATTER OF an application by Union Gas Limited for an order dispensing with the assent of the municipal electors of the Municipality of West Nipissing to the by-law;

AND IN THE MATTER OF an application by Union Gas Limited for an order cancelling and replacing the existing Certificates of Public Convenience and Necessity with a single Certificate of Public Convenience and Necessity for the Corporation of the Municipality of West Nipissing.

BEFORE: Malcolm Jackson

Presiding Member

Ken McCann Member

DECISION AND ORDER

Union Gas Limited ("Union") filed an application, dated March 22, 2002, (the "Application") with the Ontario Energy Board (the "Board") under the *Municipal Franchises Act*, R.S.O. 1990, c. M.55, as amended, for an order of the Board approving

the terms and conditions upon which and the period for which the Corporation of the Municipality of West Nipissing (the "Corporation"), is by by-law to grant to Union the right to construct and operate works for the distribution of gas, and to extend and add to the works in the Municipality of West Nipissing (the "Municipality"). The Board assigned File No. RP-2002-0119/EB-2002-0333 to this Application.

Union Gas Limited also applied for an order of the Board cancelling the existing Certificates of Public Convenience and Necessity and replacing them with a new Certificate of Public Convenience and Necessity which would include the area of the former municipalities which are now part of the Municipality of West Nipissing (the "Certificate Application"). The Board has assigned File No. RP-2002-0119/EB-2002-0344 to this Certificate Application.

Union also submitted a resolution, passed by the Council for the Corporation, approving the form of draft by-law (the "By-law"), authorizing the franchise agreement between Union and the Corporation (the "Franchise Agreement"), and requesting the Board to declare and direct, pursuant to subsection 9(4) of the Act, that the assent of the municipal electors to the By-law is not necessary.

The Board's Notice of Application was published on May 22, 2002. There were no intervenors. On September 20, 2002 the Board issued a Notice of Written Hearing. No party satisfied the Board that there was a good reason for not holding a written hearing.

Union is presently serving the Municipality and has Certificates of Public Convenience and Necessity (E.B.C. 115 Township of Caldwell, E.B.C. 240 Town of Cache Bay, F.B.C. 257 Town of Sturgeon Falls, E.B.C. 23 Township of Springer) for the Municipality. Union does not have a Certificate of Public Convenience and Necessity for that portion of the Municipality formerly known as the Township of Field nor for the portion of the Municipality formerly known as the unorganized Townships of Bertram, Latchford, Falconer, Loudon, Macpherson, Beaucage, Pedley, Kirkpatrick, Grant, Badgerow, Dana, McWilliams, Crerar, Gibbons, Bastedo, Fell, Hugel and part of Janes.

Effective January 1, 1999 the Township of Caldwell, the Town of Cache Bay, the Town of Sturgeon Falls, the Township of Springer and the Township of Field were amalgamated, and the unorganized Townships of Bertram, Latchford, Falconer, Loudon, Macpherson, Beaucage, Pedley, Kirkpatrick, Grant, Badgerow, Dana, McWilliams, Crerar, Gibbons, Bastedo, Fell, Hugel and part of Janes were annexed to form the Municipality of West Nipissing. The Board also notes that the Franchise Agreement is in the form of the 2000 Model Franchise Agreement approved by the Board as a standard form of franchise agreement.

The Board finds that, based on the evidence, granting the Applications is in the public interest.

THE BOARD THEREFORE ORDERS THAT:

- 1. The terms and conditions upon which, and the period for which, the Corporation of the Municipality of West Nipissing is, by by-law, to grant to Union Gas Limited the right to construct and operate works for the distribution of gas, and the right to extend and add to the works, as set out in the Franchise Agreement attached as Appendix A, are approved.
- The assent of the municipal electors of the Municipality of West Nipissing to the By-law is not necessary.
- 3. The existing Certificates of Public Convenience and Necessity for the former municipalities of Township of Caldwell (E.B.C. 115), Town of Cache Bay (E.B.C. 240), Town of Sturgeon Falls (F.B.C. 257), Township of Springer (E.B.C. 23) are cancelled and replaced with a single Certificate of Public Convenience and Necessity for the amalgamated Municipality of West Nipissing (EB-2002-0344).

DATED at Toronto November 5, 2002

ONTARIO ENERGY BOARD

Paul B. Pudge

Board Secretary

Schedule 6D Enbridge Gas Community Expansion Project Proposal

Hamilton (Alberton)

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: Alberton (City of Hamilton) Community I	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 its gas distribution system within the City of Hamilton to the community of Alberton. The proposed facilities will provide access to natural gas to a forecasted 17 customers (15 residential and 2 commercial / institutional). The proposed project will tie-in to an existing 4" polyethylene pipe at the intersection of ______ and _____. The proposed facilities will run along _ _____, _____ and ____. The approximate length and size of the distribution pipelines required: Pipe Type Diameter (NPS) Length (m) Polyethylene 3.300 Please refer to Schedule 6D-1 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 6D-2, 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 6D-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 6D-3, 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 6D-4 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 6D-5.
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 6D-6 for Enbridge's CPCN for the City of Hamilton (EB-2006-0284) 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 6D-2, 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 6D-2, 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.
	\$1,531,806
	Please refer to Schedule 6D-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$90,106
	Please refer to Schedule 6D-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$38.10
	Please refer to Schedule 6D-2, Table 5.3.
	Please refer to Schedule 6D-2, 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 6D-2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

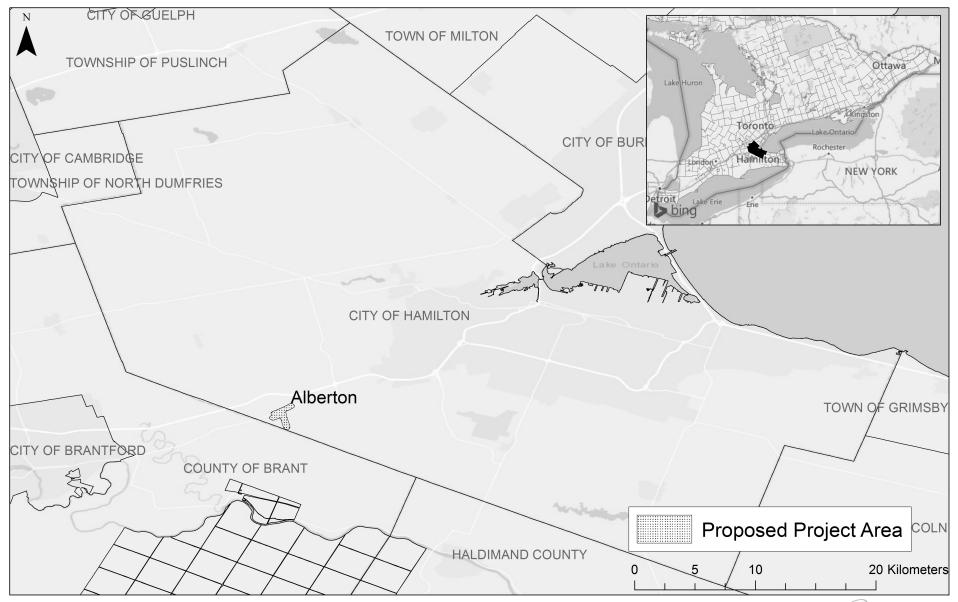
Part \	VII – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue 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 6D-2, 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 6D-2, 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).
	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 6D-4.

Schedule 6D-1 Enbridge Gas Community Expansion Project Proposal

Hamilton (Alberton)

City of Hamilton - Alberton





Schedule 6D-2 Enbridge Gas Community Expansion Project Proposal

Hamilton (Alberton)

Community Expansion Alberton (City of Hamilton)

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 6D-2 Redacted

Project Year	<u>1</u>	<u>2</u>	<u>3</u> 2	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	5	3	2	1	1	1	1	1	-	-	15
	-	2	-	-	-	-	-	-	-	-	2
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	- 4	-	-	- 47
	<u>5</u>	<u>5</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	-	<u> </u>	<u>17</u>
	5	10	12	13	14	15	16	17	17	17	
					Annual V	olumes - m3					
<u>Project Year</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	5,500	14,300	19,800	23,100	25,300	27,500	29,700	31,900	33,000	33,000	243,100
	-	3,600	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	61,200
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
		- 47.000	- 07.000	-	- 20.500	- 24.700	-	-	-	-	-
	<u>5,500</u>	<u>17,900</u>	<u>27,000</u>	<u>30,300</u>	<u>32,500</u>	<u>34,700</u>	<u>36,900</u>	<u>39,100</u>	<u>40,200</u>	<u>40,200</u>	304,300
					Cumulative	Volumes - m3	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>	
	5,500	19,800	39,600	62,700	88,000	115,500	145,200	177,100	210,100	243,100	
	-	3,600	10,800	18,000	25,200	32,400	39,600	46,800	54,000	61,200	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
		-	-		-	-	-	-	-		
	<u>5,500</u>	<u>23,400</u>	<u>50,400</u>	<u>80,700</u>	<u>113,200</u>	<u>147,900</u>	<u>184,800</u>	223,900	<u>264,100</u>	<u>304,300</u>	





<u>Year 10</u>

Community Expansion Alberton (City of Hamilton)

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 6D-2 Redacted

\$ 1,531,806

<u>Year 10</u> 90,106

Year 10 38.10

Project Year 817 3,671 4,161 4,488 4,815 5,141 5,468 5,631 5,631 \$ 42,312 2,489 1,265 4,117 6,210 6,969 7,475 7,981 8,487 8,993 9,246 9,246 69,989 2,082 6,606 9,881 11,130 11,963 12,796 13,628 14,461 <u>14,877</u> <u>14.877</u> \$ 112,301

Net Present Value







<u>1.00</u>

Community Expansion Alberton (City of Hamilton)

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 6D-2

Redacted

Schedule 6D-3 Enbridge Gas Community Expansion Project Proposal

Hamilton (Alberton)

Section 3.4 Alberton (City of Hamilton)

Total Forecasted Customers 17 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 per customer - Existing Fuel (tCO2e)	is -ve) ner customer	Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	4	21%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 5,608	6.7	-2.5	24	(9)
Electricity F/A	2	9%									5
Electricity Baseboard	2	12%	\$ 12,000	\$ 1,626	\$ 1,258	\$ 368	\$ 751	0.5	3.6	1	7
Propane	7	44%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 2,752	5.2	-1.1	39	(8)
Wood	2	9%	\$ 3,500	N/A	N/A		N/A	N/A	N/A	N/A	N/A
Other	1	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	17	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 10,290	12.9	3.6	64	(4)

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.

-		Em	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 M1 (Community Expansion, Non-FN)							
	Consumption Equivale		Price per Unit					
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.572			
Heating oil	L	2433	Heating oil	\$/L	1.163			
Electricity	kWh	18046	Electricity	\$/kWh	0.112			
Propane	L	3359	Propane	\$/L	0.484			

Notes:

Gas prices correspond to EGI (Union Gas South) 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

South Propane prices correspond to the latest available montly average EDPRO residential rates for Zone 1 (March 2020).

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

Schedule 6D-4 Enbridge Gas Community Expansion Project Proposal

Hamilton (Alberton)

Hamilton (Alberton) Community Expansion Project Pipeline Construction Schedule

Task Name		2022						2023							2024																				
rask Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov D	ec J	an 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 6D-5 Enbridge Gas Community Expansion Project Proposal

Hamilton (Alberton)



City Hall, 71 Main Street West Hamilton, Ontario, Canada L8P 4Y5 www.hamilton.ca Alvin Chan, Manager, Legislative Approvals / Staging of Development Planning and Economic Development Department Growth Management Division 71 Main Street West, 6th Floor, Hamilton, ON L8P 4Y5 Phone: 905.546.2424 Ext. 2978 Fax: 905.540-5611 Email: Alvin.chan@hamilton.ca

June 5, 2020

Enbridge Gas Inc. 50 Keil Drive North, Chatham, ON, Canada N7M 5M1

Attention: Wayne Passmore

RE: City of Hamilton ("City") Letter of Support

Enbridge Gas Inc. City of Hamilton Natural Gas Expansion Projects

("Projects") for submission to the Ontario Energy Board; and, the Ministry of

Energy Natural Gas Expansion Program

Dear Wayne,

The City's interest in the five individual Projects relates to how it may impact the environmental and financial well-being of the municipality, as well as the health, safety and well-being of its inhabitants.

In review of these Projects for the expansion of natural gas services by Enbridge Gas Inc., to the Airport Employment Growth District and Red Hill Business Parks; and, the rural settlement areas of Rockton; Westover; Sheffield; and Alberton, be submitted to the Ontario Energy Board for application under the Ministry of Energy Natural Gas Expansion Program.

Accordingly, as per the Program Guidelines, the City supports the expansion of natural gas services to the Airport Employment Growth District and Red Hill Business
Parks; and, to the rural settlement areas of Rockton; Westover; Sheffield; and,
Alberton. However, the City is not in a position to make any financial contributions to this Project, as per the rationale documented below:

Rationale for No Financial Contribution:

Financial Concerns:

Staff was unable to document the financial implications of the individual Projects and requests for Financial Contribution, due to internal deadlines and availability of Council meetings.

Subject: City of Hamilton ("City") Letter of Support

> **Enbridge Gas Inc. City of Hamilton Natural Gas Expansion Projects** ("Projects") for submission to the Ontario Energy Board; and, the

Ministry of Energy Natural Gas Expansion Program

As such, the City was not provided sufficient time to complete a thorough financial analysis and evaluation of the potential implications of making a financial contribution to these projects.

In particular, albeit the City did receive mapping from Enbridge Gas Inc, additional information, including but not limited to, the type, length, and diameter of the pipeline, and the rate applied for property assessment purposes would be required together in consultation with the Municipal Property Assessment Corporation (MPAC) in order to validate the estimated property tax figure.

Natural Heritage Concerns; Source Water Protection Concerns; Cultural and Built Heritage Concerns: Municipal Infrastructure Concerns: Climate Emergency; and, Emergency Response.

In discussion with Enbridge Gas Inc., the preferred options and optimal route have not yet been established and will be completed should the Ministry approve a Grant for any of the five individual projects.

Accordingly, the City requests the opportunity under any project, to review and comment on any proposed options and / or routes; and potential conditions of approval, as part of any approval process, including, but not limited to, applications before the Ontario Energy Board.

Lastly, in the absence of a preferred option or route, the City was not provided sufficient time to evaluate partnering and the timing of project construction, in order to leverage other municipal works occurring along the same corridor for any of these projects.

Should you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

Alvin Chan, BES, MCIP, RPP

Manager, Legislative Approvals/Staging of Development

Growth Management Division

Planning and Economic Development Department

71 Main Street West, 6th Floor

Hamilton, ON, L8P 4Y5

Visit C

905-546-2424 Ext 2978

alvin.chan@hamilton.ca

Subject: City of Hamilton ("City") Letter of Support

Enbridge Gas Inc. City of Hamilton Natural Gas Expansion Projects ("Projects") for submission to the Ontario Energy Board; and, the

Ministry of Energy Natural Gas Expansion Program

C.C. Jason Thorne, General Manager, Planning and Economic Development Department

Tony Sergi, Senior Director, Growth Management Division Norm Schleehahn, Director, Economic Development Division

Guy Paparella, Special Projects Manager, Growth Management Division

Sue Rimac, Business Development Consultant, Economic Development Division

Jennifer Patterson, Senior Business Development Consultant, Economic Development Division

Councilor Brenda Johnson (Ward 11) Councilor Lloyd Ferguson (Ward 12) Councilor Arlene Vanderbeek (Ward 13)

Schedule 6D-6 Enbridge Gas Community Expansion Project Proposal

Hamilton (Alberton)

EB-2006-0284

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 City of Hamilton

This certificate replaces the certificates of the former municipalities that are now within the City of Hamilton.

DATED at Toronto, February 6, 2007

ONTARIO ENERGY BOARD

Original signed by

Mark C. Garner Managing Director, Market Operations

Schedule 6E 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: Rockton (City of Hamilton) Community E	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.

ed	following: communiti would serve any on-rof each community b	eserve Indigenous comm	iding whether the project nunities; existing populatio //institutional and industria
	Hamilton to the communi		on system within the City of facilities will provide access to ential, 17 commercial / institution
	and	connecting to an existing	near the intersection of g 4" polyethylene pipe and one connecting to an existing
			of
	towards to	,	and
	A reinforcement segmen	t (1,700 m of 4" steel pipe) wi ystem and will be installed ne	Il be required to accommodate ar the intersection of
	A reinforcement segment additional loads for the symmetry and and No new station(s) or any	t (1,700 m of 4" steel pipe) wi ystem and will be installed ne	ar the intersection of
	A reinforcement segment additional loads for the symmetry and and No new station(s) or any	t (1,700 m of 4" steel pipe) wi ystem and will be installed ne of Hamilton. station modifications required	ar the intersection of
	A reinforcement segment additional loads for the segment and and No new station(s) or any The approximate length a	t (1,700 m of 4" steel pipe) wiystem and will be installed ne of Hamilton. station modifications required and size of the distribution pipers.	ar the intersection ofd. d. pelines required:
	A reinforcement segment additional loads for the symmetry and	t (1,700 m of 4" steel pipe) wi ystem and will be installed ne of Hamilton. station modifications required and size of the distribution pip	ar the intersection ofd. d. pelines required: Length (m) 7,700
	A reinforcement segment additional loads for the symmetry and	t (1,700 m of 4" steel pipe) wi ystem and will be installed ne of Hamilton. station modifications required and size of the distribution pip	ar the intersection ofd. d. pelines required: Length (m) 7,700 required: Length (m)
	A reinforcement segment additional loads for the symmetry and	t (1,700 m of 4" steel pipe) wi ystem and will be installed ne of Hamilton. station modifications required and size of the distribution pip Diameter (NPS) 2 and size of the reinforcement	ar the intersection ofd. d. pelines required: Length (m) 7,700 required:
	A reinforcement segment additional loads for the symmetry and	t (1,700 m of 4" steel pipe) wi ystem and will be installed ne of Hamilton. station modifications required and size of the distribution pip Diameter (NPS) 2 and size of the reinforcement Diameter (NPS)	ar the intersection ofd. d. Delines required: Length (m) 7,700 required: Length (m) 1,700
	A reinforcement segment additional loads for the symmetry and	t (1,700 m of 4" steel pipe) wi ystem and will be installed ne of Hamilton. station modifications required and size of the distribution pip Diameter (NPS) 2 and size of the reinforcement Diameter (NPS) 4	ar the intersection ofd. d. Delines required: Length (m) 7,700 required: Length (m) 1,700

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 6E-2, 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 6E-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 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.

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 6E-4 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 6E-5.
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 6E-6 for Enbridge's CPCN for the City of Hamilton (EB-2006-0284) which covers the entire area of the proposed project.
	V – 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 6E-2, 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 6E-2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$5,716,530
	Please refer to Schedule 6E-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$47,244
	Please refer to Schedule 6E-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$12.82
	Please refer to Schedule 6E-2, Table 5.3.

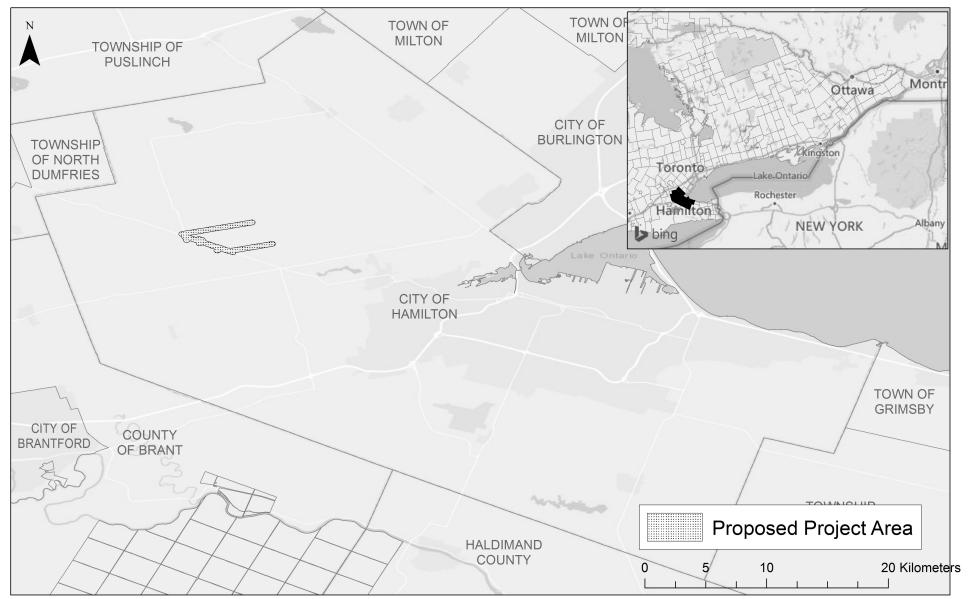
Part \	/I – Distribution Charge
6.1	Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.
	Provide a confirmation that there would be no material cross- subsidization between rate classes.
	Please refer to Schedule 6E-2, 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 6E-2, 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 6E-2, 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
	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 6E-4.

Schedule 6E-1 Enbridge Gas Community Expansion Project Proposal

Rockton





Schedule 6E-2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Rockton (City of Hamilton)

InService Date: Nov-01-2023

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

Firm / I7
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 6E-2 Redacted

Project Year	1 32 - - - - 32 32	24 8 - 4 1 37 69	3 16 2 - - - 18 87	4 8 1 - - - 9 96	5 8 1 - - - 9 105	6 3 1 - - - 4 109	7 3 - - - 3 112	8 3 - - - 3 115	9 3 - - - 3 118	10 3 - - - 3 121	Total 103 13 - 4 1 121
					Annual V	olumes - m3					
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>	<u>Total</u>
	35,200	96,800	140,800	167,200	184,800	196,900	203,500	210,100	216,700	223,300	1,675,300
	-	19,400	42,400	47,100	49,300	51,500	52,600	52,600	52,600	52,600	420,100
	-	-	-	-	-	-	-	-	-	-	-
	-	35,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	595,000
_	<u>35,200</u>	50,000 <u>201,200</u>	100,000 <u>353,200</u>	100,000 <u>384,300</u>	100,000 <u>404,100</u>	100,000 <u>418,400</u>	100,000 <u>426,100</u>	100,000 432,700	100,000 439,300	100,000 <u>445,900</u>	850,000 3,540,400
	<u>55,266</u>	<u>201,200</u>	<u>555,260</u>	304,300	404,100	<u>+10,+00</u>	420,100	402,100	400,000	110,000	<u>5,540,400</u>
					Cumulative	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>	
	35,200	132,000	272,800	440,000	624,800	821,700	1,025,200	1,235,300	1,452,000	1,675,300	
	-	19,400	61,800	108,900	158,200	209,700	262,300	314,900	367,500	420,100	
	-	35,000	105,000	- 175,000	245,000	- 315,000	385,000	455,000	525,000	595,000	
	-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000	
_	<u>35,200</u>	<u>236,400</u>	<u>589,600</u>	<u>973,900</u>	<u>1,378,000</u>	<u>1,796,400</u>	<u>2,222,500</u>	<u>2,655,200</u>	3,094,500	3,540,400	







Community Expansion Rockton (City of Hamilton)

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 6E-2 Redacted

\$ 5,716,530

<u>Year 10</u> 47,244

Year 10 12.82

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>
	\$ 5,226	19,236	30,999	35,448	38,388	40,511	41,654	42,634	43,614	44,594	\$ 342,304
_	8,096	46,276	81,236	88,389	92,943	96,232	98,003	99,521	101,039	102,557	814,292
•	\$ 13.322	65,512	112.235	123,837	131.331	136,743	139,657	142,155	144,653	147.151	\$ 1,156,596

Net Present Value







<u>1.00</u>

Community Expansion Rockton (City of Hamilton)

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 6E-2

Redacted

Schedule 6E-3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Rockton (City of Hamilton) 121

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 per customer - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	25	21%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 39,919	6.7	-2.5	169	(64)
Electricity F/A	11	9%			1						39
Electricity Baseboard	15	12%	\$ 12,000	\$ 1,626	\$ 1,258	\$ 368	\$ 5,342	0.5	3.6	8	52
Propane	53	44%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 19,588	5.2	-1.1	276	(56)
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	121	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 73,239	12.9	3.6	459	(30)

65%

Penetration Rate

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.

Total Forecasted Customers

		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 M1 (Community Expansion, Non-FN)												
	Consumption Equivale		Price per Unit										
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.572								
Heating oil	L	2433	Heating oil	\$/L	1.163								
Electricity	kWh	18046	Electricity	\$/kWh	0.112								
Propane	L	3359	Propane	\$/L	0.484								

Gas prices correspond to EGI (Union Gas South) 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

South Propane prices correspond to the latest available montly average EDPRO residential rates for Zone 1 (March 2020).

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

Schedule 6E-4 Enbridge Gas Community Expansion Project Proposal

Hamilton (Rockton) Community Expansion Project Pipeline Construction Schedule

Task Name		2022										2023											2024												
		Feb	Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct 1	Nov D	ec Ja	an Fel	b 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												1																							
In Service																																			

Schedule 6E-5 Enbridge Gas Community Expansion Project Proposal



City Hall, 71 Main Street West Hamilton, Ontario, Canada L8P 4Y5 www.hamilton.ca Alvin Chan, Manager, Legislative Approvals / Staging of Development Planning and Economic Development Department Growth Management Division 71 Main Street West, 6th Floor, Hamilton, ON L8P 4Y5 Phone: 905.546.2424 Ext. 2978 Fax: 905.540-5611 Email: Alvin.chan@hamilton.ca

June 5, 2020

Enbridge Gas Inc. 50 Keil Drive North, Chatham, ON, Canada N7M 5M1

Attention: Wayne Passmore

RE: City of Hamilton ("City") Letter of Support

Enbridge Gas Inc. City of Hamilton Natural Gas Expansion Projects

("Projects") for submission to the Ontario Energy Board; and, the Ministry of

Energy Natural Gas Expansion Program

Dear Wayne,

The City's interest in the five individual Projects relates to how it may impact the environmental and financial well-being of the municipality, as well as the health, safety and well-being of its inhabitants.

In review of these Projects for the expansion of natural gas services by Enbridge Gas Inc., to the Airport Employment Growth District and Red Hill Business Parks; and, the rural settlement areas of Rockton; Westover; Sheffield; and Alberton, be submitted to the Ontario Energy Board for application under the Ministry of Energy Natural Gas Expansion Program.

Accordingly, as per the Program Guidelines, the City supports the expansion of natural gas services to the Airport Employment Growth District and Red Hill Business
Parks; and, to the rural settlement areas of Rockton; Westover; Sheffield; and,
Alberton. However, the City is not in a position to make any financial contributions to this Project, as per the rationale documented below:

Rationale for No Financial Contribution:

Financial Concerns:

Staff was unable to document the financial implications of the individual Projects and requests for Financial Contribution, due to internal deadlines and availability of Council meetings.

Subject: City of Hamilton ("City") Letter of Support

Enbridge Gas Inc. City of Hamilton Natural Gas Expansion Projects ("Projects") for submission to the Ontario Energy Board; and, the

Ministry of Energy Natural Gas Expansion Program

As such, the City was not provided sufficient time to complete a thorough financial analysis and evaluation of the potential implications of making a financial contribution to these projects.

In particular, albeit the City did receive mapping from Enbridge Gas Inc, additional information, including but not limited to, the type, length, and diameter of the pipeline, and the rate applied for property assessment purposes would be required together in consultation with the Municipal Property Assessment Corporation (MPAC) in order to validate the estimated property tax figure.

Natural Heritage Concerns; Source Water Protection Concerns; Cultural and Built Heritage Concerns; Municipal Infrastructure Concerns; Climate Emergency; and, Emergency Response.

In discussion with Enbridge Gas Inc., the preferred options and optimal route have not yet been established and will be completed should the Ministry approve a Grant for any of the five individual projects.

Accordingly, the City requests the opportunity under any project, to review and comment on any proposed options and / or routes; and potential conditions of approval, as part of any approval process, including, but not limited to, applications before the Ontario Energy Board.

Lastly, in the absence of a preferred option or route, the City was not provided sufficient time to evaluate partnering and the timing of project construction, in order to leverage other municipal works occurring along the same corridor for any of these projects.

Should you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

Alvin Chan, BES, MCIP, RPP

Manager, Legislative Approvals/Staging of Development

Growth Management Division

Planning and Economic Development Department

71 Main Street West, 6th Floor

Hamilton, ON, L8P 4Y5

Visit C

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Subject: City of Hamilton ("City") Letter of Support

Enbridge Gas Inc. City of Hamilton Natural Gas Expansion Projects ("Projects") for submission to the Ontario Energy Board; and, the

Ministry of Energy Natural Gas Expansion Program

C.C. Jason Thorne, General Manager, Planning and Economic Development Department

Tony Sergi, Senior Director, Growth Management Division Norm Schleehahn, Director, Economic Development Division

Guy Paparella, Special Projects Manager, Growth Management Division

Sue Rimac, Business Development Consultant, Economic Development Division

Jennifer Patterson, Senior Business Development Consultant, Economic Development Division

Councilor Brenda Johnson (Ward 11) Councilor Lloyd Ferguson (Ward 12) Councilor Arlene Vanderbeek (Ward 13)

Schedule 6E-6 Enbridge Gas Community Expansion Project Proposal

EB-2006-0284

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 City of Hamilton

This certificate replaces the certificates of the former municipalities that are now within the City of Hamilton.

DATED at Toronto, February 6, 2007

ONTARIO ENERGY BOARD

Original signed by

Mark C. Garner Managing Director, Market Operations

Schedule 6F 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: Sheffield (City of Hamilton) 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 its gas distribution system within the City of Hamilton to the community of Sheffield. The proposed facilities will provide access to natural gas to a forecasted 65 customers (59 residential, 5 commercial / institutional and 1 intensive agriculture). The proposed project will have a tie-in point near the intersection of connecting to an existing 4" steel pipeline. The proposed distribution system will extend _____ and There will be no reinforcement required to accommodate additional loads for the system. An existing station will require higher outlet pressure for additional loads. The approximate length and size of the distribution pipelines required: Pipe Type Diameter (NPS) Length (m) Polyethylene 2 5,250 The approximate length and size of the supply laterals required: Diameter (NPS) Pipe Type Length (m) Polyethylene 2,735 Please refer to Schedule 6F-1 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 6F-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 6F-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 6F-3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date,
0.0	all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule 6F-4 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 6F-5.

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 6F-6 for Enbridge's CPCN for the City of Hamilton (EB-2006-0284) 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 6F-2, 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 6F-2, Table 4.3.

Part V – Section 36.2 Funding

Provide the total amount of section 36.2 funding needed to support the project.

\$3,688,318

Please refer to Schedule 6F-2, Table 5.1.

Provide the section 36.2 funding amount per customer number served in year ten of the project.

\$56,743

Please refer to Schedule 6F-2, Table 5.2.

Provide the section 36.2 funding amount per volume (m³) in year ten of the project.

\$24.09

Please refer to Schedule 6F-2, 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 6F-2, 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).

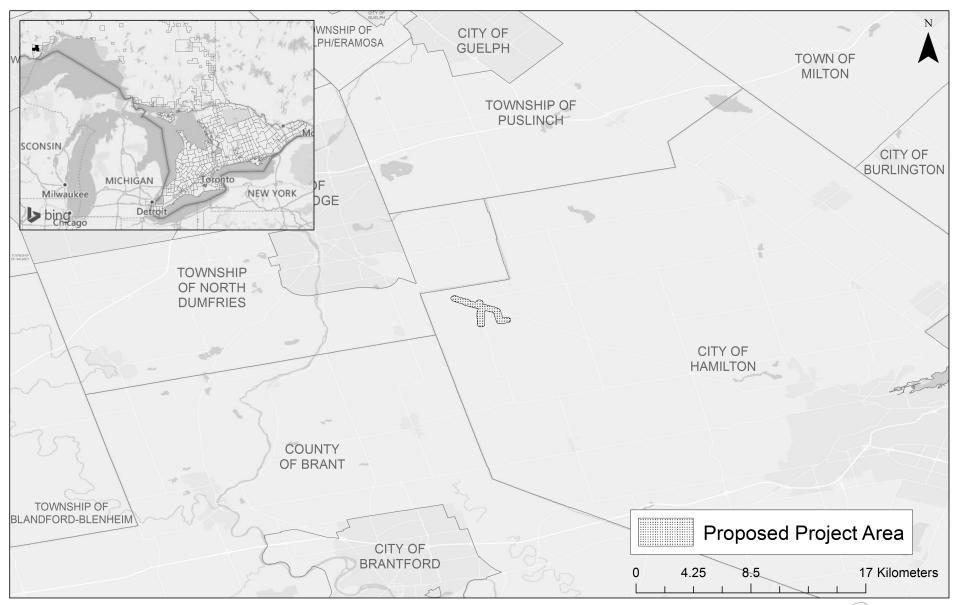
Please refer to Schedule 6F-2, Table 7.1.

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 6F-2, Table 7.2.

Schedule 6F-1 Enbridge Gas Community Expansion Project Proposal

Sheffield





Schedule 6F-2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Sheffield (City of Hamilton)

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period

irm / I
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 6F-2 Redacted

Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u> 3	<u>6</u>	<u>7</u> 3	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	16	14	5	4	3	4	3	4	3	3	59
	-	5	-	-	-	-	-	-	-	-	5
	-	-	-	-	-	-	-	-	-	-	-
	-	1	-	-	-	-	-	-	-	-	1
-	- 40	- 00	-	- 4	-	-	-	- 4	-	-	-
	<u>16</u>	<u>20</u>	<u>5</u>	<u>4</u>	<u>3</u>	<u>4</u>	<u>3</u>	<u>4</u>	<u>3</u>	<u>3</u>	<u>65</u>
	16	36	41	45	48	52	55	59	62	65	
					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>
	17,600	50,600	71,500	81,400	89,100	96,800	104,500	112,200	119,900	126,500	870,100
	-	12,200	24,400	24,400	24,400	24,400	24,400	24,400	24,400	24,400	207,400
	-	-	-	-	-	-	-	-	-	-	-
	-	1,100	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	18,700
-	-	-	-	-	-	-	-	-	-	-	_
	<u>17,600</u>	<u>63,900</u>	<u>98,100</u>	<u>108,000</u>	<u>115,700</u>	<u>123,400</u>	<u>131,100</u>	<u>138,800</u>	<u>146,500</u>	<u>153,100</u>	<u>1,096,200</u>
					Cumulative	Volumes - m3	3				
Project Year	<u>1</u>	<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>	
	17,600	68,200	139,700	221,100	310,200	407,000	511,500	623,700	743,600	870,100	
	-	12,200	36,600	61,000	85,400	109,800	134,200	158,600	183,000	207,400	
	-	-	-	-	-	-	-	-	-	-	
	-	1,100	3,300	5,500	7,700	9,900	12,100	14,300	16,500	18,700	
	-	-	-	-	-	-	-	-	-	-	
-	<u>17,600</u>	<u>81,500</u>	<u>179,600</u>	<u>287,600</u>	403,300	<u>526,700</u>	<u>657,800</u>	<u>796,600</u>	943,100	1,096,200	





Year 10

Community Expansion Sheffield (City of Hamilton)

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 6F-2 Redacted

\$ 3,688,318

<u>Year 10</u> 56,743

Year 10 24.09

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>
	\$ 2,613	8,678	12,947	14,417	15,560	16,703	17,846	18,989	20,133	21,113 \$	148,998
	4,048	14,697	22,563	24,840	26,611	28,382	30,153	31,924	33,695	35,213	252,126
	\$ 6,661	23.375	35,510	39.257	42,171	45,085	47,999	50,913	53,828	56,326 \$	401.124

Net Present Value







<u>1.00</u>

Community Expansion Sheffield (City of Hamilton)

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 6F-2 Redacted

Schedule 6F-3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Sheffield (City of Hamilton)

Total Forecasted Customers 65 **Penetration Rate** 53%

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 per customer Existing Fuel (tCO2e)	lincreased GHG is	Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	22	34%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 34,587	6.7	-2.5	146	(56)
Electricity F/A	2	3%									8
Electricity Baseboard	1	2%			-			0.5			4
Propane	34	52%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 12,343	5.2	-1.1	174	(36)
Wood	4	6%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	2	3%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	65	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 48,931	12.9	3.6	322	(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)

	Rat	e M1 (Community Expansion	n, Non-FN)						
	Consumption Equivale		Price per Unit						
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.572				
Heating oil	L	2433	Heating oil	\$/L	1.163				
Electricity	kWh	18046	Electricity	\$/kWh	0.112				
Propane	L	3359	Propane	\$/L	0.484				

Notes:

Gas prices correspond to EGI (Union Gas South) 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

South Propane prices correspond to the latest available montly average EDPRO residential rates for Zone 1 (March 2020).

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

Schedule 6F-4 Enbridge Gas Community Expansion Project Proposal

Hamilton (Sheffield) Community Expansion Project Pipeline Construction Schedule

Task Name		2022											2023										2024												
Task Name	Jan	Feb	Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov [Dec	Jan F	eb M	ar Ap	r May	Jur	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																	þ																		
Pre-Construction, Construction and Testing																																			
In Service																																			

Schedule 6F-5 Enbridge Gas Community Expansion Project Proposal



City Hall, 71 Main Street West Hamilton, Ontario, Canada L8P 4Y5 www.hamilton.ca Alvin Chan, Manager, Legislative Approvals / Staging of Development Planning and Economic Development Department Growth Management Division 71 Main Street West, 6th Floor, Hamilton, ON L8P 4Y5 Phone: 905.546.2424 Ext. 2978 Fax: 905.540-5611 Email: Alvin.chan@hamilton.ca

June 5, 2020

Enbridge Gas Inc. 50 Keil Drive North, Chatham, ON, Canada N7M 5M1

Attention: Wayne Passmore

RE: City of Hamilton ("City") Letter of Support

Enbridge Gas Inc. City of Hamilton Natural Gas Expansion Projects

("Projects") for submission to the Ontario Energy Board; and, the Ministry of

Energy Natural Gas Expansion Program

Dear Wayne,

The City's interest in the five individual Projects relates to how it may impact the environmental and financial well-being of the municipality, as well as the health, safety and well-being of its inhabitants.

In review of these Projects for the expansion of natural gas services by Enbridge Gas Inc., to the Airport Employment Growth District and Red Hill Business Parks; and, the rural settlement areas of Rockton; Westover; Sheffield; and Alberton, be submitted to the Ontario Energy Board for application under the Ministry of Energy Natural Gas Expansion Program.

Accordingly, as per the Program Guidelines, the City supports the expansion of natural gas services to the Airport Employment Growth District and Red Hill Business
Parks; and, to the rural settlement areas of Rockton; Westover; Sheffield; and,
Alberton. However, the City is not in a position to make any financial contributions to this Project, as per the rationale documented below:

Rationale for No Financial Contribution:

Financial Concerns:

Staff was unable to document the financial implications of the individual Projects and requests for Financial Contribution, due to internal deadlines and availability of Council meetings.

Subject: City of Hamilton ("City") Letter of Support

Enbridge Gas Inc. City of Hamilton Natural Gas Expansion Projects ("Projects") for submission to the Ontario Energy Board; and, the

Ministry of Energy Natural Gas Expansion Program

As such, the City was not provided sufficient time to complete a thorough financial analysis and evaluation of the potential implications of making a financial contribution to these projects.

In particular, albeit the City did receive mapping from Enbridge Gas Inc, additional information, including but not limited to, the type, length, and diameter of the pipeline, and the rate applied for property assessment purposes would be required together in consultation with the Municipal Property Assessment Corporation (MPAC) in order to validate the estimated property tax figure.

Natural Heritage Concerns; Source Water Protection Concerns; Cultural and Built Heritage Concerns; Municipal Infrastructure Concerns; Climate Emergency; and, Emergency Response.

In discussion with Enbridge Gas Inc., the preferred options and optimal route have not yet been established and will be completed should the Ministry approve a Grant for any of the five individual projects.

Accordingly, the City requests the opportunity under any project, to review and comment on any proposed options and / or routes; and potential conditions of approval, as part of any approval process, including, but not limited to, applications before the Ontario Energy Board.

Lastly, in the absence of a preferred option or route, the City was not provided sufficient time to evaluate partnering and the timing of project construction, in order to leverage other municipal works occurring along the same corridor for any of these projects.

Should you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

Alvin Chan, BES, MCIP, RPP

Manager, Legislative Approvals/Staging of Development

Growth Management Division

Planning and Economic Development Department

71 Main Street West, 6th Floor

Hamilton, ON, L8P 4Y5

Visit C

905-546-2424 Ext 2978

alvin.chan@hamilton.ca

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Schedule 6F-6 Enbridge Gas Community Expansion Project Proposal

EB-2006-0284

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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 City of Hamilton

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DATED at Toronto, February 6, 2007

ONTARIO ENERGY BOARD

Original signed by

Mark C. Garner Managing Director, Market Operations

Schedule 6G Enbridge Gas Community Expansion Project Proposal

Hamilton (Westover)

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: Westover (City of Hamilton) Community Expansion Project				
Address of Head Office:	Telephone Number:			
50 Keil Drive North	519-436-4600			
Chatham, ON N7M 5M1	313 430 4000			
Chatham, Civ William				
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

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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 its gas distribution system within the City of Hamilton to the community of Westover. The proposed facilities will provide access to natural gas to a forecasted 80 customers (75 residential, 3 commercial / institutional and 2 industrial). The proposed project will tie-in to an existing 2" polyethylene pipe at the intersection of _____ and _____. The proposed distribution system will extend _____ and will partially branch on to _____ and . There are 2 reinforcement segments (250 m of 4" steel pipe and 1,250 m of 4" polyethylene pipe) required to accommodate additional loads for the system. No distribution station upgrades will be required. The approximate length and size of the distribution pipelines required: Pipe Type Diameter (NPS) Length (m) Polyethylene 6.400 The approximate length and size of the reinforcement required: Diameter (NPS) Pipe Type Length (m) Polyethylene 1,250 Steel 250 The approximate length and size of the supply laterals required: Pipe Type Diameter (NPS) Length (m) Polyethylene 1,215 Please refer to Schedule 6G-1 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 6G-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 6G-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 6G-3, 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 6G-4 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 6G-5.		

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 6G-6 for Enbridge's CPCN for the City of Hamilton (EB-2006-0284) 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 6G-2, 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 6G-2, Table 4.3.

Part V – Section 36.2 Funding

Provide the total amount of section 36.2 funding needed to support the project.

\$3,732,828

Please refer to Schedule 6G-2, Table 5.1.

Provide the section 36.2 funding amount per customer number served in year ten of the project.

\$46,660

Please refer to Schedule 6G-2, Table 5.2.

Provide the section 36.2 funding amount per volume (m³) in year ten of the project.

\$10.03

Please refer to Schedule 6G-2, 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 6G-2, 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 6G-2, Table 7.1.

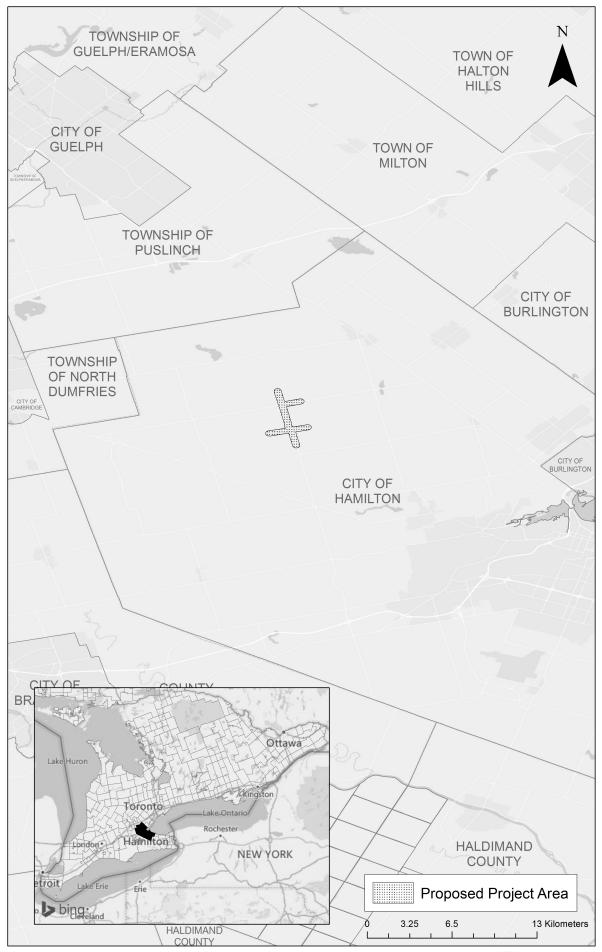
Provide, in a summary table that otherwise meets the requirements of section 7.1, the expected PI of the project without the proposed section 36.2 funding.

Please refer to Schedule 6G-2, Table 7.2.

Schedule 6G-1 Enbridge Gas Community Expansion Project Proposal

Hamilton (Westover)

Westover





Schedule 6G-2 Enbridge Gas Community Expansion Project Proposal

Hamilton (Westover)

Community Expansion Westover (City of Hamilton)

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

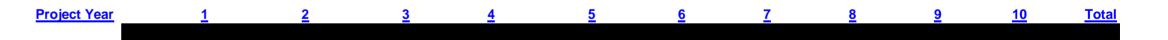
Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule 6G-2 Redacted

Project Year	<u>1</u> 23	2 18	<u>3</u> 12	4	<u>5</u>	<u>6</u> 2	<u>7</u> 2	<u>8</u> 2	9 2	<u>10</u> 2	<u>Total</u>
	23	18 3	12	6	6	2	2	2	2	2	75 3
	-	-	-	-	-	-	-	-	-	- -	-
	-	-	-	-	-	-	-	-	-	-	-
_	-	2	-	-	-	-	-	-	-	-	2
	<u>23</u>	<u>23</u>	<u>12</u>	<u>6</u>	<u>6</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>80</u>
	23	46	58	64	70	72	74	76	78	80	
					Americal V	olumes - m3					
Project Year	4	2	•	4			7	•	0	10	<u>Total</u>
<u>Froject real</u>	25,300	2 70,400	103,400	123,200	5 136,400	<u>6</u> 145,200	<u>7</u> 149,600	<u>8</u> 154,000	9 158,400	<u>10</u> 162,800	1,228,700
	-	4,700	9,400	9,400	9,400	9,400	9,400	9,400	9,400	9,400	79,900
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
	-	100,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,700,000
	<u>25,300</u>	<u>175,100</u>	<u>312,800</u>	<u>332,600</u>	<u>345,800</u>	<u>354,600</u>	<u>359,000</u>	<u>363,400</u>	<u>367,800</u>	<u>372,200</u>	3,008,600
					Cumulative	· 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>	
	25,300	95,700	199,100	322,300	458,700	603,900	753,500	907,500	1,065,900	1,228,700	
	-	4,700	14,100	23,500	32,900	42,300	51,700	61,100	70,500	79,900	
	-	-	-	-	-	-	-	-	-	-	
	-	100,000	300,000	- 500,000	700,000	900,000	1,100,000	1,300,000	1,500,000	1,700,000	
-	<u>25,300</u>	<u>200,400</u>	513,200	845,800	1,191,600	1,546,200	1,100,000	2,268,600	2,636,400	3,008,600	





Year 1

Community Expansion Westover (City of Hamilton)

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 6G-2 Redacted

\$ 3,732,828

<u>Year 10</u> 46,660

\$ 10.03

Project Year <u>Total</u> 32,353 \$ 251,968 3,756 14,543 23,533 26,473 28,433 29,739 30,393 31,046 31,699 5,819 40,273 71,944 76,498 79,534 81,558 82,570 83,582 84,594 85,606 691,978 9,575 54,816 95,477 102,971 107,967 111,297 112,963 114,628 116,293 <u>117,959</u> \$ 943,946

Net Present Value







Page 2 of 3

<u>1.00</u>

Community Expansion Westover (City of Hamilton) InService Date: Nov-01-2023

EB-2019-0255 Schedule 6G-2 Redacted

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

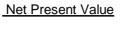
Total Expenses (B)

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)











Schedule 6G-3 Enbridge Gas Community Expansion Project Proposal

Hamilton (Westover)

Section 3.4 Westover (City of Hamilton)

Total Forecasted Customers 80 Penetration Rate 65%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer ¹	Estimated Ai Conversion Cost 2 Estimated Ai Energy Co (existing fu		rgy Costs Fnergy Costs		Estimated Annual Savings	Estimated Annual GHG per customer - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)	
Oil	17	21%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 26,393	6.7	-2.5	112	(42)	
Electricity F/A	7	9%			-			0.5	3.6		26	
Electricity Baseboard	10	12%	\$ 12,000	\$ 1,626	\$ 1,258	\$ 368	\$ 3,532	0.5	3.6	5	34	
Propane	35	44%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 12,951	5.2	-1.1	182	(37)	
Wood	7	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A	
Other	4	5%	\$ 5,000	N/A	N/A	\$ -	N/A					
Total	80	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 48,422	12.9	3.6	303	(20)	

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.

		Em	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 M1 (Community Expansion, Non-FN)							
	Consumption Equivale		Price per Unit					
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.572			
Heating oil	L	2433	Heating oil	\$/L	1.163			
Electricity	kWh	18046	Electricity	\$/kWh	0.112			
Propane	L	3359	Propane	\$/L	0.484			

Notes:

Gas prices correspond to EGI (Union Gas South) 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

South Propane prices correspond to the latest available montly average EDPRO residential rates for Zone 1 (March 2020).

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

Schedule 6G-4 Enbridge Gas Community Expansion Project Proposal

Hamilton (Westover)

Hamilton (Westover) Community Expansion Project Pipeline Construction Schedule

Task Name		2022					2023								2024																				
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	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								Ī		T																									
In Service																																			

Schedule 6G-5 Enbridge Gas Community Expansion Project Proposal

Hamilton (Westover)



City Hall, 71 Main Street West Hamilton, Ontario, Canada L8P 4Y5 www.hamilton.ca Alvin Chan, Manager, Legislative Approvals / Staging of Development Planning and Economic Development Department Growth Management Division 71 Main Street West, 6th Floor, Hamilton, ON L8P 4Y5 Phone: 905.546.2424 Ext. 2978 Fax: 905.540-5611 Email: Alvin.chan@hamilton.ca

June 5, 2020

Enbridge Gas Inc. 50 Keil Drive North, Chatham, ON, Canada N7M 5M1

Attention: Wayne Passmore

RE: City of Hamilton ("City") Letter of Support

Enbridge Gas Inc. City of Hamilton Natural Gas Expansion Projects

("Projects") for submission to the Ontario Energy Board; and, the Ministry of

Energy Natural Gas Expansion Program

Dear Wayne,

The City's interest in the five individual Projects relates to how it may impact the environmental and financial well-being of the municipality, as well as the health, safety and well-being of its inhabitants.

In review of these Projects for the expansion of natural gas services by Enbridge Gas Inc., to the Airport Employment Growth District and Red Hill Business Parks; and, the rural settlement areas of Rockton; Westover; Sheffield; and Alberton, be submitted to the Ontario Energy Board for application under the Ministry of Energy Natural Gas Expansion Program.

Accordingly, as per the Program Guidelines, the City supports the expansion of natural gas services to the Airport Employment Growth District and Red Hill Business
Parks; and, to the rural settlement areas of Rockton; Westover; Sheffield; and,
Alberton. However, the City is not in a position to make any financial contributions to this Project, as per the rationale documented below:

Rationale for No Financial Contribution:

Financial Concerns:

Staff was unable to document the financial implications of the individual Projects and requests for Financial Contribution, due to internal deadlines and availability of Council meetings.

Subject: City of Hamilton ("City") Letter of Support

> **Enbridge Gas Inc. City of Hamilton Natural Gas Expansion Projects** ("Projects") for submission to the Ontario Energy Board; and, the

Ministry of Energy Natural Gas Expansion Program

As such, the City was not provided sufficient time to complete a thorough financial analysis and evaluation of the potential implications of making a financial contribution to these projects.

In particular, albeit the City did receive mapping from Enbridge Gas Inc, additional information, including but not limited to, the type, length, and diameter of the pipeline, and the rate applied for property assessment purposes would be required together in consultation with the Municipal Property Assessment Corporation (MPAC) in order to validate the estimated property tax figure.

Natural Heritage Concerns; Source Water Protection Concerns; Cultural and Built Heritage Concerns: Municipal Infrastructure Concerns: Climate Emergency; and, Emergency Response.

In discussion with Enbridge Gas Inc., the preferred options and optimal route have not yet been established and will be completed should the Ministry approve a Grant for any of the five individual projects.

Accordingly, the City requests the opportunity under any project, to review and comment on any proposed options and / or routes; and potential conditions of approval, as part of any approval process, including, but not limited to, applications before the Ontario Energy Board.

Lastly, in the absence of a preferred option or route, the City was not provided sufficient time to evaluate partnering and the timing of project construction, in order to leverage other municipal works occurring along the same corridor for any of these projects.

Should you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

Alvin Chan, BES, MCIP, RPP

Manager, Legislative Approvals/Staging of Development

Growth Management Division

Planning and Economic Development Department

71 Main Street West, 6th Floor

Hamilton, ON, L8P 4Y5

VIIII C

905-546-2424 Ext 2978

alvin.chan@hamilton.ca

Subject: City of Hamilton ("City") Letter of Support

Enbridge Gas Inc. City of Hamilton Natural Gas Expansion Projects ("Projects") for submission to the Ontario Energy Board; and, the

Ministry of Energy Natural Gas Expansion Program

C.C. Jason Thorne, General Manager, Planning and Economic Development Department

Tony Sergi, Senior Director, Growth Management Division Norm Schleehahn, Director, Economic Development Division

Guy Paparella, Special Projects Manager, Growth Management Division

Sue Rimac, Business Development Consultant, Economic Development Division

Jennifer Patterson, Senior Business Development Consultant, Economic Development Division

Councilor Brenda Johnson (Ward 11) Councilor Lloyd Ferguson (Ward 12) Councilor Arlene Vanderbeek (Ward 13)

Schedule 6G-6 Enbridge Gas Community Expansion Project Proposal

Hamilton (Westover)

EB-2006-0284

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 City of Hamilton

This certificate replaces the certificates of the former municipalities that are now within the City of Hamilton.

DATED at Toronto, February 6, 2007

ONTARIO ENERGY BOARD

Original signed by

Mark C. Garner Managing Director, Market Operations

Schedule 6H Enbridge Gas Community Expansion Project Proposal

Kirkfield, Coboconk, Norland (Kawartha Lakes)

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: Kirkfield, Coboconk and Norland Comm	unity 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 in the communities of Kirkfield, Coboconk and Norland within the City of Kawartha Lakes as well as to residential areas along the supply lateral including near _____ and _____. The proposed facilities will provide access to natural gas to a forecasted 946 customers (829 residential, 106 commercial / institutional and 11 industrial). The proposed tie-in of the steel supply lateral to the existing system is in the community of Beaverton in the Township of Brock at the intersection of _____ and _____. The proposed supply lateral heads ______ from the tie-in to ______, _____ to _____, ____ to _____, _____ (Coboconk), and to Norland. Two stations are required to reduce pressure for distribution: at the intersection of and _____ and at the intersection of ____ and ___ and ____ The proposed distribution system includes residential streets off ____ , ____ ____ (including across the waterway along ____ to ____), Kirkfield, of ______, Coboconk (including ______) to community streets off _____, and Norland. The approximate length and size of the supply laterals required: Diameter (NPS) Pipe Type Length (m) Steel 8 18,523 Polyethylene 26,831 The approximate length and size of the reinforcement required: Pipe Type Diameter (NPS) Length (m) Steel 6 1,880 8.622 Steel 8,700 Steel The approximate length and size of the distribution pipelines required: Pipe Type Diameter (NPS) Length (m) Polyethylene 58,231 4 Polyethylene 4.800 6 Polyethylene 4,920

	Please refer to Schedule 6H-1 for Project Map.
3.2	Provide the annual and cumulative forecast of the number of customer attachments over the ten-year rate stability period by residential, commercial/institutional and industrial sectors for each community. Indicate for each customer type whether the service to be provided would be firm or interruptible.
	Please refer to Schedule 6H-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 6H-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.

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 6H-4 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 6H-5.
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 6H-6 for Enbridge's CPCN for the City of Kawartha Lakes (EB-2017-0147) which covers the majority of the area of the proposed project.
	(A CPCN will be required for parts of the Township of Brock.)
	V – 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 6H-2, 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 6H-2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$127,221,409
	Please refer to Schedule 6H-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$134,484
	Please refer to Schedule 6H-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$35.54
	Please refer to Schedule 6H-2, 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 6H-2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

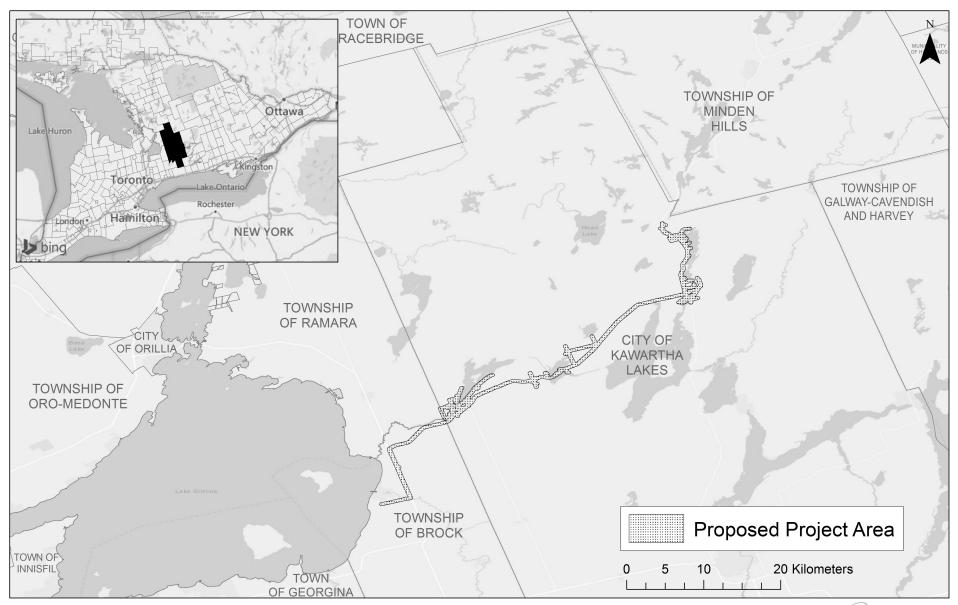
Part \	VII – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue 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 6H-2, 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 6H-2, 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 and CPCN (Township of Brock)
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 6H-4.

Schedule 6H-1 Enbridge Gas Community Expansion Project Proposal

Kirkfield, Coboconk, Norland (Kawartha Lakes)

Kirkfield, Coboconk, Norland





Schedule 6H-2 Enbridge Gas Community Expansion Project Proposal

Kirkfield, Coboconk, Norland (Kawartha Lakes)

	InService Date: Nov-01-2023												Schedule 6 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		223	198	<u>3</u> 75	<u>4</u> 54	42	<u>6</u> 52	45	8 52	46	<u>10</u> 42	829
	Commercial	Firm		-	53	16	7	7	4	4	4	3	3	101
	Institutional	Firm		-	1	1	-	-	-	-	-	-	-	2
	Agricultural	Firm		-	2	1	-	-	-	-	-	-	-	3
	Industrial	Firm	_	-	4	1	1	1	1	1	1	1	-	11
	Total Customers			<u>223</u>	<u>258</u>	<u>94</u>	<u>62</u>	<u>50</u>	<u>57</u>	<u>50</u>	<u>57</u>	<u>50</u>	<u>45</u>	<u>946</u>
	Cumulative Customers			223	481	575	637	687	744	794	851	901	946	
Table 3.3 - Annual a	and Cumulative Volumes Over The Rate Stabilit	y Period (m3)												
				_					ual Volumes					
	Customer Type		Project Year	1	<u>2</u>	3	4	<u>5</u>	<u>6</u>	<u>7</u>	8	9	<u>10</u>	<u>Total</u>
	Residential			267,600	772,800	1,100,400	1,255,200	1,370,400	1,483,200	1,599,600	1,716,000	1,833,600	1,939,200	13,338,000
	Commercial			-	103,300	238,600	284,100	311,100	334,500	354,300	374,100	392,700	410,100	2,802,800
	Institutional Agricultural			-	25,000 10,000	75,000 25,000	100,000 30,000	100,000 30,000	100,000 30,000	100,000 30,000	100,000 30,000	100,000 30,000	100,000 30,000	800,000 245,000
	Industrial			-	200,000	450,000	550,000	650,000	750,000	850,000	950,000	1,050,000	1,100,000	6,550,000
	Total Volumes		-	267,600	1,111,100	1,889,000	2,219,300	<u>2,461,500</u>	2,697,700	<u>2,933,900</u>	3,170,100	3,406,300	3,579,300	<u>23,735,800</u>
	rotal volumes			<u>201,000</u>	<u>1,111,100</u>	1,009,000	<u>2,213,500</u>	<u>2,401,500</u>	<u>2,031,100</u>	<u>2,933,900</u>	<u>5,170,100</u>	<u>5,400,500</u>	<u>5,579,500</u>	<u>23,733,000</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			267,600	1,040,400	2,140,800	3,396,000	4,766,400	6,249,600	7,849,200	9,565,200	11,398,800	13,338,000	
				-	103,300	341,900	626,000	937,100	1,271,600	1,625,900	2,000,000	2,392,700	2,802,800	
	Commercial					400 000							000 000	
	Institutional			-	25,000	100,000	200,000	300,000	400,000	500,000	600,000	700,000	800,000	
	Institutional Agricultural			- -	10,000	35,000	65,000	95,000	400,000 125,000	155,000	185,000	215,000	245,000	
	Institutional Agricultural Industrial		_	-	10,000 200,000	35,000 650,000	65,000 1,200,000	95,000 1,850,000	400,000 125,000 2,600,000	155,000 3,450,000	185,000 4,400,000	215,000 5,450,000	245,000 6,550,000	
	Institutional Agricultural		-	-	10,000	35,000	65,000	95,000	400,000 125,000	155,000	185,000	215,000	245,000	
Table 4.2 - Total Ca	Institutional Agricultural Industrial		-	-	10,000 200,000	35,000 650,000	65,000 1,200,000	95,000 1,850,000	400,000 125,000 2,600,000	155,000 3,450,000	185,000 4,400,000	215,000 5,450,000	245,000 6,550,000	
Table 4.2 - Total Ca	Institutional Agricultural Industrial Total Volumes		_	- - <u>267,600</u>	10,000 200,000	35,000 650,000	65,000 1,200,000	95,000 1,850,000	400,000 125,000 2,600,000	155,000 3,450,000	185,000 4,400,000	215,000 5,450,000	245,000 6,550,000	
Table 4.2 - Total Cap	Institutional Agricultural Industrial Total Volumes		-	-	10,000 200,000	35,000 650,000	65,000 1,200,000	95,000 1,850,000	400,000 125,000 2,600,000	155,000 3,450,000	185,000 4,400,000	215,000 5,450,000	245,000 6,550,000	
	Institutional Agricultural Industrial Total Volumes Apital Costs At End Of The Rate Stability Period		-	- - <u>267,600</u>	10,000 200,000	35,000 650,000	65,000 1,200,000	95,000 1,850,000	400,000 125,000 2,600,000	155,000 3,450,000	185,000 4,400,000	215,000 5,450,000	245,000 6,550,000	
	Institutional Agricultural Industrial Total Volumes Apital Costs At End Of The Rate Stability Period Total Capital Costs		-	- - <u>267,600</u>	10,000 200,000	35,000 650,000	65,000 1,200,000	95,000 1,850,000	400,000 125,000 2,600,000	155,000 3,450,000	185,000 4,400,000	215,000 5,450,000	245,000 6,550,000 23,735,800	
	Institutional Agricultural Industrial Total Volumes Apital Costs At End Of The Rate Stability Period Total Capital Costs E Requirement Over The Rate Stability Period		Project Year	- - <u>267,600</u>	10,000 200,000	35,000 650,000	65,000 1,200,000	95,000 1,850,000	400,000 125,000 2,600,000	155,000 3,450,000	185,000 4,400,000	215,000 5,450,000	245,000 6,550,000	<u>Total</u>
	Institutional Agricultural Industrial Total Volumes Apital Costs At End Of The Rate Stability Period Total Capital Costs		Project Year	- - <u>267,600</u>	10,000 200,000	35,000 650,000	65,000 1,200,000	95,000 1,850,000	400,000 125,000 2,600,000	155,000 3,450,000	185,000 4,400,000	215,000 5,450,000	245,000 6,550,000 23,735,800	<u>Total</u>
	Institutional Agricultural Industrial Total Volumes Apital Costs At End Of The Rate Stability Period Total Capital Costs E Requirement Over The Rate Stability Period		Project Year	- - <u>267,600</u>	10,000 200,000	35,000 650,000	65,000 1,200,000	95,000 1,850,000	400,000 125,000 2,600,000	155,000 3,450,000	185,000 4,400,000	215,000 5,450,000	245,000 6,550,000 23,735,800	<u>Total</u>

EB-2019-0255

Community Expansion Kirkfield, Coboconk, Norland

Kirkfield, Coboconk, Norland InService Date: Nov-01-2023

EB-2019-0255 Schedule 6H-2 Redacted

Total

5,459,234

522,542 \$ 3,571,254

<u>1,345,781</u> \$ 9,030,488

823,239

497,690

783,449

1,281,139

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

\$ 127,221,409

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

Year 10 134,484

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

Section 36.2 Funding Amount Per Volume (m3)

Year 10 35.54

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)

Project Year

46,891 179,210 294,614 342,487 375,757 407,029 437,355 467,680 434,470 566,145 620,471 674,797 729,123 61,548 255,553 510,439 108,439 434,763 729,084 852,926 941,902 1,027,500 <u>1,112,152</u> <u>1,196,803</u>

Net Present Value







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

<u>1.00</u>

Kirkfield, Coboconk, Norland 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 6H-2

Redacted

Schedule 6H-3 Enbridge Gas Community Expansion Project Proposal

Kirkfield, Coboconk, Norland (Kawartha Lakes)

Section 3.4 Kirkfield, Coboconk, Norland

Total Forecasted Customers 946 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	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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	199	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 311,845	7.2	-2.7	1,425	(531)
Electricity F/A	85	9%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 60,147	0.6	3.9	50	333
Electricity Baseboard	114	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 80,196	0.6	3.9	66	444
Propane	416	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 117,933	5.6	-1.1	2,326	(454)
Wood	85	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	47	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	946	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 570,122	13.9	4.1	3,867	(207)

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

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

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

Emission Factor Sources:

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

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

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

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

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

	Rate 1 (Community Expansion, Non-FN)												
	Consumption Equiva		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 6H-4 Enbridge Gas Community Expansion Project Proposal

Kirkfield, Coboconk, Norland (Kawartha Lakes)

Kirkfield, Coboconk, Norland Community Expansion Project Pipeline Construction Schedule

Task Name		2022									2023										2024															
rask Name		Feb	Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan I	eb N	Mar	Apr I	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 6H-5 Enbridge Gas Community Expansion Project Proposal

Kirkfield, Coboconk, Norland (Kawartha Lakes)

EB-2019-0255 Schedule 6H-5(a)



The Corporation of the

City of Kawartha Lakes

P.O. Box 9000, 26 Francis St., Lindsay, Ontario K9V 5R8 Tel: (705) 324-9411 ext. 1320, 1 888-822-2225

Fax: (705) 324-8110 aletham@kawarthalakes.ca

June 11, 2020

Re: Expression of Support for Natural Gas Expansion to Kirkfield

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 Support Program will unlock financial support needed to expand natural gas service to new areas across Ontario that are not economically feasible without support. The City of Kawartha Lakes is one such area, and we are eager to bring this affordable, reliable fuel source to more residents and businesses.

On behalf of City of Kawartha Lakes, I would like to formally support the inclusion of Kirkfield on Enbridge Gas' list of projects being proposed to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Support Program.

Based on the Guidelines issued by the OEB (EB-2019-0255) on March 5th, 2020, we are aware that Enbridge Gas may include support for the proposed project from local government, demonstrated through a written expression of support in its project submissions.

Natural gas is the most common, affordable heating fuel in Ontario. The City of Kawartha Lakes supports the efforts of Enbridge Gas, 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 more residents and business owners.

Sincerely,

Andy Letham

Mayor

City of Kawartha Lakes

EB-2019-0255 Schedule 6H-5(b)



The Corporation of the City of Kawartha Lakes

P.O. Box 9000, 26 Francis St., Lindsay, Ontario K9V 5R8 Tel: (705) 324-9411 ext. 1320, 1 888-822-2225

Fax: (705) 324-8110 aletham@kawarthalakes.ca

June 11, 2020

Re: Expression of Support for Natural Gas Expansion to Coboconk

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 Support Program will unlock financial support needed to expand natural gas service to new areas across Ontario that are not economically feasible without support. The City of Kawartha Lakes is one such area, and we are eager to bring this affordable, reliable fuel source to more residents and businesses.

On behalf of City of Kawartha Lakes, I would like to formally support the inclusion of Coboconk on Enbridge Gas' list of projects being proposed to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Support Program.

Based on the Guidelines issued by the OEB (EB-2019-0255) on March 5th, 2020, we are aware that Enbridge Gas may include support for the proposed project from local government, demonstrated through a written expression of support in its project submissions.

Natural gas is the most common, affordable heating fuel in Ontario. The City of Kawartha Lakes supports the efforts of Enbridge Gas, 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 more residents and business owners.

Sincerely.

Andy Letham

Mayor

City of Kawartha Lakes

EB-2019-0255 Schedule 6H-5(c)



City of Kawartha Lakes

P.O. Box 9000, 26 Francis St.,

Lindsay, Ontario K9V 5R8 Tel: (705) 324-9411 ext. 1320, 1 888-822-2225 Fax: (705) 324-8110

aletham@kawarthalakes.ca

The Corporation of the

June 11, 2020

Re: Expression of Support for Natural Gas Expansion to Norland

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 Support Program will unlock financial support needed to expand natural gas service to new areas across Ontario that are not economically feasible without support. The City of Kawartha Lakes is one such area, and we are eager to bring this affordable, reliable fuel source to more residents and businesses.

On behalf of City of Kawartha Lakes, I would like to formally support the inclusion of Norland on Enbridge Gas' list of projects being proposed to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Support Program.

Based on the Guidelines issued by the OEB (EB-2019-0255) on March 5th, 2020, we are aware that Enbridge Gas may include support for the proposed project from local government, demonstrated through a written expression of support in its project submissions.

Natural gas is the most common, affordable heating fuel in Ontario. The City of Kawartha Lakes supports the efforts of Enbridge Gas, 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 more residents and business owners.

Sincerely,

Andy Letham

Mayor

City of Kawartha Lakes

Schedule 6H-6 Enbridge Gas Community Expansion Project Proposal

Kirkfield, Coboconk, Norland (Kawartha Lakes)

EB-2017-0147

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 in the

City of Kawartha Lakes

DATED at Toronto, March 1, 2018

ONTARIO ENERGY BOARD

Original Signed By

Kirsten Walli Board Secretary

EB-2013-0210

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 in the geographic boundaries of the

Municipality of Brock

This certificate replaces the Certificate of Public Convenience and Necessity that is associated with the former Township of Brock, the former Town of Beaverton, and the former Town of Thorah with a Certificate of Public Convenience and Necessity for the Municipality of Brock.

DATED at Toronto, July 18, 2013

ONTARIO ENERGY BOARD

Original Signed By

Kirsten Walli Board Secretary

Schedule 6I 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: Scugog North Shore Community Expan	sion 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	I – Description of and Sup	port for Project								
3.1 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 expand gas distribution service within the City of Kawartha Lakes along the North Shore of Lake Scugog in various communities including Sonya, Gilson's Point, Fingerboard, Newman's Beach, Star's Beach along, Oakdene Point and communities along, and									
	The proposed facilities will pro (834 residential, 16 commerc		gas to a forecasted 851 customers dustrial).							
	location to reduce the existing facilities. From the outlet of the	and g system pressure to dis he proposed station, the	thylene supply lateral at the . A station is proposed at the tie-in tribution pressure for the proposed supply lateral will run on to, and							
	along		, and							
	The approximate length and s	size of the distribution pi	pelines required:							
	Pipe Type	Diameter (NPS)	Length (m)							
	Polyethylene	2	44,474							
	Polyethylene	4 6	13,021							
	Polyethylene	6	16,390							
3.2	Please refer to Schedule 6 Provide the annual and c		f the number of customer							
	attachments over the ten commercial/institutional Indicate for each custome would be firm or interrup	and industrial sector er type whether the s	s for each community.							
	Please refer to Schedule 6	I-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 6I-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 6I-3, 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 6I-4 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 6I-5.

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 6I-6 for Enbridge's CPCN for the City of Kawartha Lakes (EB-2017-0147) 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 6I-2, 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 6I-2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$28,138,012
	Please refer to Schedule 6I-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$33,065
	Please refer to Schedule 6I-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$13.34
	Please refer to Schedule 6I-2, 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 6I-2, 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).

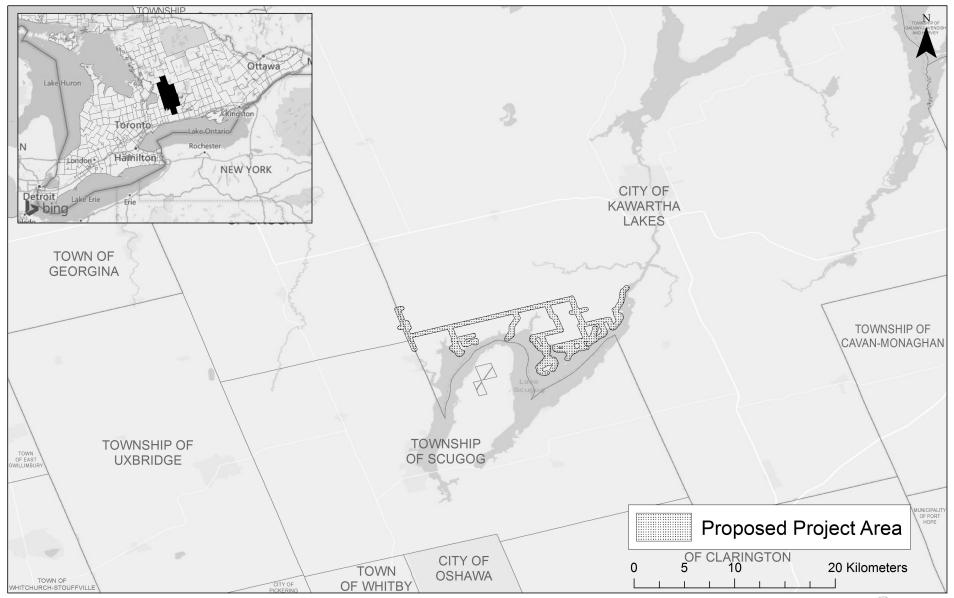
Please refer to Schedule 6I-2, Table 7.1.

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 6I-2, 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 6I-4.

Schedule 6I-1 Enbridge Gas Community Expansion Project Proposal





Schedule 6I-2 Enbridge Gas Community Expansion Project Proposal

InService Date: Nov-01-2023												Schedule 6	
Table 3.2 - Customer 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		225	200	75	54	42	<u>6</u> 52	45	<u>8</u> 52	46	43	834
Commercial	Firm		-	8	3	1	1	1	1	-	-	-	15
Institutional	Firm		-	-	-	-	-	-	-	-	-	-	-
Agricultural	Firm		-	1	-	-	-	-	-	-	-	-	1
Industrial	Firm		-	1	-	-	-	-	-	-	-	-	1
Total Customers			<u>225</u>	<u>210</u>	<u>78</u>	<u>55</u>	<u>43</u>	<u>53</u>	<u>46</u>	<u>52</u>	<u>46</u>	<u>43</u>	<u>851</u>
Cumulative Customers			225	435	513	568	611	664	710	762	808	851	
Table 3.3 - Annual and Cumulative Volumes Over The Rate Stability Period (m3)													
Customer Time		Droinet Veer	4	•	•		Annu	al Volumes -	m3		0	40	Total
Customer Type		Project Year	070.000	<u>2</u>	4 440 000	4 004 000	4 200 000	4 400 000	4 000 000	4 705 000	4 0 40 000	10	Total
Residential			270,000	780,000	1,110,000	1,264,800	1,380,000	1,492,800	1,609,200	1,725,600	1,843,200	1,950,000	13,425,600
Commercial			-	9,600	24,100	30,200	32,600	35,000	37,400	38,600	38,600	38,600	284,700
Institutional			-	-	-	-	-	-	-	-	-	-	-
Agricultural			-	10,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	170,000
Industrial			- 270,000	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
Total Volumes			<u>270,000</u>	<u>849,600</u>	<u>1,254,100</u>	<u>1,415,000</u>	<u>1,532,600</u>	<u>1,647,800</u>	<u>1,766,600</u>	<u>1,884,200</u>	<u>2,001,800</u>	<u>2,108,600</u>	14,730,300
							Cumula	ntive Volumes					
Customer Type		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>	
Residential		Project Year	<u>1</u> 270,000	1,050,000	2,160,000	<u>4</u> 3,424,800	<u>5</u> 4,804,800	<u>6</u> 6,297,600	7,906,800	9,632,400	<u>9</u> 11,475,600	13,425,600	
Residential Commercial		Project Year	270,000 -			4 3,424,800 63,900	<u>5</u>	<u>6</u>	<u>7</u>	_	9 11,475,600 246,100		
Residential Commercial Institutional		Project Year		1,050,000 9,600 -	2,160,000 33,700 -	63,900 -	4,804,800 96,500	6,297,600 131,500	7,906,800 168,900	9,632,400 207,500 -	246,100	13,425,600 284,700 -	
Residential Commercial Institutional Agricultural		Project Year	-	1,050,000 9,600 - 10,000	2,160,000 33,700 - 30,000	63,900 - 50,000	4,804,800 96,500 - 70,000	6,297,600 131,500 - 90,000	7,906,800 168,900 - 110,000	9,632,400 207,500 - 130,000	246,100 - 150,000	13,425,600 284,700 - 170,000	
Residential Commercial Institutional		Project Year	-	1,050,000 9,600 -	2,160,000 33,700 -	63,900 -	4,804,800 96,500	6,297,600 131,500	7,906,800 168,900	9,632,400 207,500 -	246,100	13,425,600 284,700 -	
Residential Commercial Institutional Agricultural		Project Year	-	1,050,000 9,600 - 10,000	2,160,000 33,700 - 30,000	63,900 - 50,000	4,804,800 96,500 - 70,000	6,297,600 131,500 - 90,000	7,906,800 168,900 - 110,000	9,632,400 207,500 - 130,000	246,100 - 150,000	13,425,600 284,700 - 170,000	
Residential Commercial Institutional Agricultural Industrial		Project Year	- - -	1,050,000 9,600 - 10,000 50,000	2,160,000 33,700 - 30,000 150,000	63,900 - 50,000 250,000	4,804,800 96,500 - 70,000 350,000	6,297,600 131,500 - 90,000 450,000	7,906,800 168,900 - 110,000 550,000	9,632,400 207,500 - 130,000 650,000	246,100 - 150,000 750,000	13,425,600 284,700 - 170,000 850,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period		Project Year	- - -	1,050,000 9,600 - 10,000 50,000	2,160,000 33,700 - 30,000 150,000	63,900 - 50,000 250,000	4,804,800 96,500 - 70,000 350,000	6,297,600 131,500 - 90,000 450,000	7,906,800 168,900 - 110,000 550,000	9,632,400 207,500 - 130,000 650,000	246,100 - 150,000 750,000	13,425,600 284,700 - 170,000 850,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	- - - - <u>270,000</u>	1,050,000 9,600 - 10,000 50,000	2,160,000 33,700 - 30,000 150,000	63,900 - 50,000 250,000	4,804,800 96,500 - 70,000 350,000	6,297,600 131,500 - 90,000 450,000	7,906,800 168,900 - 110,000 550,000	9,632,400 207,500 - 130,000 650,000	246,100 - 150,000 750,000	13,425,600 284,700 - 170,000 850,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period		Project Year	- - - - <u>270,000</u>	1,050,000 9,600 - 10,000 50,000	2,160,000 33,700 - 30,000 150,000	63,900 - 50,000 250,000	4,804,800 96,500 - 70,000 350,000	6,297,600 131,500 - 90,000 450,000	7,906,800 168,900 - 110,000 550,000	9,632,400 207,500 - 130,000 650,000	246,100 - 150,000 750,000	13,425,600 284,700 - 170,000 850,000	
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		Project Year	- - - - <u>270,000</u>	1,050,000 9,600 - 10,000 50,000	2,160,000 33,700 - 30,000 150,000	63,900 - 50,000 250,000	4,804,800 96,500 - 70,000 350,000	6,297,600 131,500 - 90,000 450,000	7,906,800 168,900 - 110,000 550,000	9,632,400 207,500 - 130,000 650,000	246,100 - 150,000 750,000	13,425,600 284,700 - 170,000 850,000	<u>Total</u>
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period Total Capital Costs			- - - - <u>270,000</u>	1,050,000 9,600 - 10,000 50,000	2,160,000 33,700 - 30,000 150,000	63,900 - 50,000 250,000	4,804,800 96,500 - 70,000 350,000	6,297,600 131,500 - 90,000 450,000	7,906,800 168,900 - 110,000 550,000	9,632,400 207,500 - 130,000 650,000	246,100 - 150,000 750,000	13,425,600 284,700 - 170,000 850,000 14,730,300	<u>Total</u>
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			- - - - <u>270,000</u>	1,050,000 9,600 - 10,000 50,000	2,160,000 33,700 - 30,000 150,000	63,900 - 50,000 250,000	4,804,800 96,500 - 70,000 350,000	6,297,600 131,500 - 90,000 450,000	7,906,800 168,900 - 110,000 550,000	9,632,400 207,500 - 130,000 650,000	246,100 - 150,000 750,000	13,425,600 284,700 - 170,000 850,000 14,730,300	<u>Total</u>

EB-2019-0255

Community Expansion Scugog North Shore

Community Expansion

Scugog North Shore InService Date: Nov-01-2023 EB-2019-0255 Schedule 6I-2 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)

\$ 28,138,012

<u>Year 10</u> 33,065

<u>Year 10</u> 13.34

Project Year 364,742 \$ 2,530,387 47,311 144,431 211,677 240,996 262,233 283,051 304,499 325,421 346,028 62,100 195,408 288,443 325,450 352,498 378,994 406,318 433,366 460,414 484,978 3,387,969 109,411 339,839 <u>500,120</u> <u>566,446</u> <u>614,731</u> <u>662,045</u> <u>710,817</u> <u>758,787</u> <u>806,442</u> <u>849,720</u> <u>\$ 5,918,356</u>

Net Present Value







1.00

Page 2 of 3

Community Expansion Scugog North Shore

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

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EB-2019-0255 Schedule 6I-2 Redacted

Schedule 6I-3 Enbridge Gas Community Expansion Project Proposal

Total Forecasted Customers 851 Penetration Rate 65%

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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	179	21%									(478)
Electricity F/A	77	9%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 54,107	0.6	3.9	45	300
Electricity Baseboard	102	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 72,143	0.6	3.9	60	400
Propane	374	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 106,089	5.6	-1.1	2,092	(408)
Wood	77	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	43	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	851	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 512,868	13.9	4.1	3,479	(186)

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

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

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

Emission Factor Sources:

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

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

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

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

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

Rate 1 (Community Expansion, Non-FN)									
Consumption Equivalent Price per Unit									
Gas	m3	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 6I-4 Enbridge Gas Community Expansion Project Proposal

Scugog North Shore Community Expansion Project Pipeline Construction Schedule

Task Name		2022							2023						2024																				
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct 1	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																																			
In Service																																			

Schedule 6I-5 Enbridge Gas Community Expansion Project Proposal

EB-2019-0255 Schedule 6I-5 Redacted The Corporation of the



City of Kawartha Lakes

P.O. Box 9000, 26 Francis St., Lindsay, Ontario K9V 5R8 Tel: (705) 324-9411 ext. 1320, 1 888-822-2225 Fax: (705) 324-8110 aletham@kawarthalakes.ca

June 15, 2020

Re: Expression of Support for Natural Gas Expansion to the North Shore of Scugog

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 Support Program will unlock financial support needed to expand natural gas service to new areas across Ontario that are not economically feasible without support. The City of Kawartha Lakes is one such area, and we are eager to bring this affordable, reliable fuel source to more residents and businesses.

On behalf of City of Kawartha Lakes, I would like to formally support the inclusion of the North Shore of Lake Scugog on Enbridge Gas' list of projects being proposed to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Support Program. This region captures everything feasible between

Based on the Guidelines issued by the OEB (EB-2019-0255) on March 5th, 2020, we are aware that Enbridge Gas may include support for the proposed project from local government, demonstrated through a written expression of support in its project submissions.

Natural gas is the most common, affordable heating fuel in Ontario. The City of Kawartha Lakes supports the efforts of Enbridge Gas, 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 more residents and business owners.

Sincerely,

Andy Letham

Mayor

City of Kawartha Lakes

Schedule 6I-6 Enbridge Gas Community Expansion Project Proposal

EB-2017-0147

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 in the

City of Kawartha Lakes

DATED at Toronto, March 1, 2018

ONTARIO ENERGY BOARD

Original Signed By

Kirsten Walli Board Secretary

Schedule 6J Enbridge Gas Community Expansion Project Proposal

Woodville (Kawartha Lakes)

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: Woodville Community Expansion Project	et				
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.

	II – Description of and Sup	port for Project						
3.1 Redacted	Provide a general overvi							
	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.							
	sectors, routing, length t	or pipeline, and norm	inai pipe size.					
	Enbridge Gas is proposing to	expand gas distribution	service within the City of Kawartha					
			facilities will provide access to					
		57 customers (219 resid	lential, 33 commercial / institutional					
	and 5 industrial).							
	The proposed project will tie-	in to an existing NPS 6.6	extra high pressure system at the					
	intersection of	and	. A station is proposed at the tie in					
	location in order to reduce the	e existing system pressu	A station is proposed at the tie in ure to distribution pressure for the					
	community. The supply latera	al heads	from the tie-in					
	to, then	to t	from the tie-in he community.					
	The approximate length and	size of the supply lateral	ls required:					
	Pipe Type	Diameter (NPS)	Length (m)					
	Polyethylene	6	4,824					
	. Glydwigiond	<u> </u>	.,02 .					
	The approximate length and	size of the distribution pi	ipelines required:					
	D: T	D: (AIDO)						
	Pipe Type	Diameter (NPS)	Length (m)					
	Polyethylene	2	5,265					
	Polyethylene	4	11,052					
	Diagram and a Calcadada C	I 4 for Duck of Man						
	Please refer to Schedule 6	J-1 for Project Map.						
	Duranida tha annual and and		f the mumber of customer					
3.2			of the number of customer					
	attachments over the ten							
	commercial/institutional							
	Indicate for each custom	7.	service to be provided					
	would be firm or interrup	tible.						
	Please refer to Schedule 6	J-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 6J-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 pattern gas, including the annual covings with natural gas. The
	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 6J-3, 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 6J-4 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 6J-5.

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 6J-6 for Enbridge's CPCN for the City of Kawartha Lakes (EB-2017-0147) 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 6J-2, 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 6J-2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$8,629,036
	Please refer to Schedule 6J-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$33,576
	Please refer to Schedule 6J-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$6.79
	Please refer to Schedule 6J-2, 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 6J-2, 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 6J-2, 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.

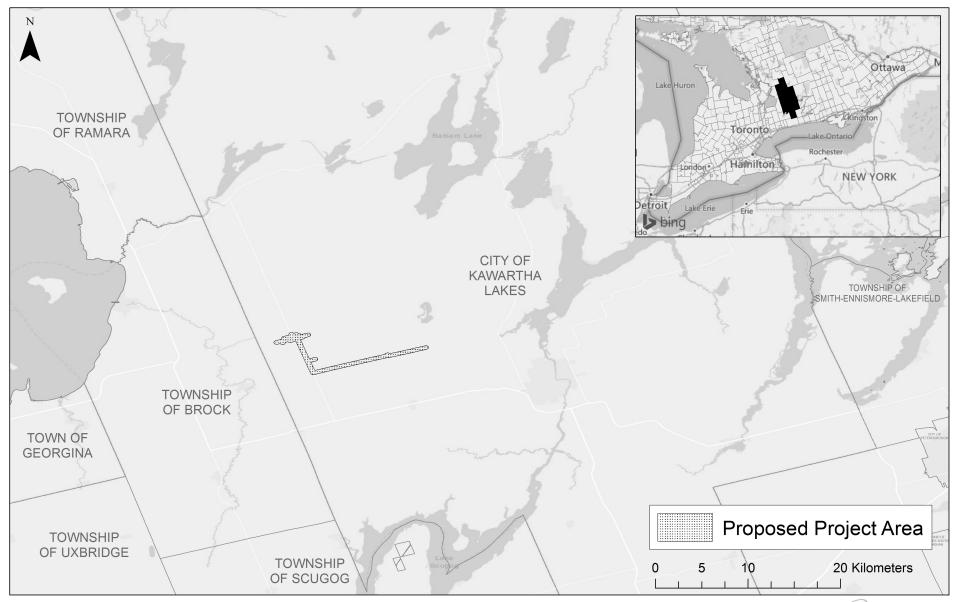
Please refer to Schedule 6J-2, Table 7.2.

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 6J-4.

Schedule 6J-1 Enbridge Gas Community Expansion Project Proposal

Woodville (Kawartha Lakes)

Woodville





Schedule 6J-2 Enbridge Gas Community Expansion Project Proposal

Woodville (Kawartha Lakes)

InService Date: Nov-01-2023												Schedule 6. Redacted	
Table 3.2 - Customer Attachments Over The Rate Stability Period													
Customer Type	Firm / IT	Project Year	<u>1</u>	<u>2</u>	3	<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		59	52	<u>3</u> 20	14	11	14	12	14	12	11	219
Commercial	Firm		-	16	4	3	3	1	1	1	-	-	29
Institutional	Firm		-	1	-	-	-	-	-	-	_	-	1
Agricultural	Firm		-	3	-	-	-	-	-	-	-	-	3
Industrial	Firm		-	3	1	1	-	-	-	-	-	-	5
Total Customers		_	<u>59</u>	<u>75</u>	<u>25</u>	<u>18</u>	<u>14</u>	<u>15</u>	<u>13</u>	<u>15</u>	<u>12</u>	<u>11</u>	<u>257</u>
Cumulative Customers			59	134	159	177	191	206	219	234	246	257	
Table 3.3 - Annual and Cumulative Volumes Over The Rate Stability Period (m3)													
		5 1 4 4					Annu	ial Volumes -	m3 _			40	
Customer Type		Project Year	<u>1</u>	2	3	4	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	9	<u>10</u>	<u>Total</u>
Residential			70,800	204,000	290,400	331,200	361,200	391,200	422,400	453,600	484,800	512,400	3,522,000
Commercial			-	28,200	62,500	73,500	83,300	89,400	91,800	94,200	95,400	95,400	713,700
Institutional			-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
Agricultural			-	56,200	112,400	112,400	112,400	112,400	112,400	112,400	112,400	112,400	955,400
Industrial			70,000	150,000	350,000	450,000	500,000	500,000	500,000	500,000	500,000	500,000	3,950,000
Total Volumes			<u>70,800</u>	<u>463,400</u>	<u>865,300</u>	<u>1,017,100</u>	<u>1,106,900</u>	<u>1,143,000</u>	<u>1,176,600</u>	<u>1,210,200</u>	<u>1,242,600</u>	<u>1,270,200</u>	9,566,100
							Cumula	ative Volumes					
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		Project Year	1 70,800	274,800	565,200	896,400	<u>5</u> 1,257,600	<u>6</u> 1,648,800	<u>7</u> 2,071,200	2,524,800	3,009,600	3,522,000	
Residential Commercial		Project Year		274,800 28,200	565,200 90,700	896,400 164,200	5 1,257,600 247,500	1,648,800 336,900	7 2,071,200 428,700	2,524,800 522,900	3,009,600 618,300	3,522,000 713,700	
Residential Commercial Institutional		Project Year	70,800	274,800 28,200 25,000	565,200 90,700 75,000	896,400 164,200 125,000	1,257,600 247,500 175,000	1,648,800 336,900 225,000	2,071,200 428,700 275,000	2,524,800 522,900 325,000	3,009,600 618,300 375,000	3,522,000 713,700 425,000	
Residential Commercial Institutional Agricultural		Project Year	70,800	274,800 28,200 25,000 56,200	565,200 90,700 75,000 168,600	896,400 164,200 125,000 281,000	1,257,600 247,500 175,000 393,400	1,648,800 336,900 225,000 505,800	2,071,200 428,700 275,000 618,200	2,524,800 522,900 325,000 730,600	3,009,600 618,300 375,000 843,000	3,522,000 713,700 425,000 955,400	
Residential Commercial Institutional Agricultural Industrial		Project Year	70,800 - - - -	274,800 28,200 25,000 56,200 150,000	565,200 90,700 75,000 168,600 500,000	896,400 164,200 125,000 281,000 950,000	1,257,600 247,500 175,000 393,400 1,450,000	1,648,800 336,900 225,000 505,800 1,950,000	2,071,200 428,700 275,000 618,200 2,450,000	2,524,800 522,900 325,000 730,600 2,950,000	3,009,600 618,300 375,000 843,000 3,450,000	3,522,000 713,700 425,000 955,400 3,950,000	
Residential Commercial Institutional Agricultural		Project Year	70,800 - -	274,800 28,200 25,000 56,200	565,200 90,700 75,000 168,600	896,400 164,200 125,000 281,000	1,257,600 247,500 175,000 393,400	1,648,800 336,900 225,000 505,800	2,071,200 428,700 275,000 618,200	2,524,800 522,900 325,000 730,600	3,009,600 618,300 375,000 843,000	3,522,000 713,700 425,000 955,400	
Residential Commercial Institutional Agricultural Industrial		Project Year	70,800 - - - -	274,800 28,200 25,000 56,200 150,000	565,200 90,700 75,000 168,600 500,000	896,400 164,200 125,000 281,000 950,000	1,257,600 247,500 175,000 393,400 1,450,000	1,648,800 336,900 225,000 505,800 1,950,000	2,071,200 428,700 275,000 618,200 2,450,000	2,524,800 522,900 325,000 730,600 2,950,000	3,009,600 618,300 375,000 843,000 3,450,000	3,522,000 713,700 425,000 955,400 3,950,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	70,800 - - - - - <u>70,800</u>	274,800 28,200 25,000 56,200 150,000	565,200 90,700 75,000 168,600 500,000	896,400 164,200 125,000 281,000 950,000	1,257,600 247,500 175,000 393,400 1,450,000	1,648,800 336,900 225,000 505,800 1,950,000	2,071,200 428,700 275,000 618,200 2,450,000	2,524,800 522,900 325,000 730,600 2,950,000	3,009,600 618,300 375,000 843,000 3,450,000	3,522,000 713,700 425,000 955,400 3,950,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	70,800 - - - -	274,800 28,200 25,000 56,200 150,000	565,200 90,700 75,000 168,600 500,000	896,400 164,200 125,000 281,000 950,000	1,257,600 247,500 175,000 393,400 1,450,000	1,648,800 336,900 225,000 505,800 1,950,000	2,071,200 428,700 275,000 618,200 2,450,000	2,524,800 522,900 325,000 730,600 2,950,000	3,009,600 618,300 375,000 843,000 3,450,000	3,522,000 713,700 425,000 955,400 3,950,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period		Project Year	70,800 - - - - - <u>70,800</u>	274,800 28,200 25,000 56,200 150,000	565,200 90,700 75,000 168,600 500,000	896,400 164,200 125,000 281,000 950,000	1,257,600 247,500 175,000 393,400 1,450,000	1,648,800 336,900 225,000 505,800 1,950,000	2,071,200 428,700 275,000 618,200 2,450,000	2,524,800 522,900 325,000 730,600 2,950,000	3,009,600 618,300 375,000 843,000 3,450,000	3,522,000 713,700 425,000 955,400 3,950,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period Total Capital Costs			70,800 - - - - - <u>70,800</u>	274,800 28,200 25,000 56,200 150,000	565,200 90,700 75,000 168,600 500,000	896,400 164,200 125,000 281,000 950,000	1,257,600 247,500 175,000 393,400 1,450,000	1,648,800 336,900 225,000 505,800 1,950,000	2,071,200 428,700 275,000 618,200 2,450,000	2,524,800 522,900 325,000 730,600 2,950,000	3,009,600 618,300 375,000 843,000 3,450,000	3,522,000 713,700 425,000 955,400 3,950,000 <u>9,566,100</u>	Total
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period Total Capital Costs		Project Year Project Year	70,800 - - - - - <u>70,800</u>	274,800 28,200 25,000 56,200 150,000	565,200 90,700 75,000 168,600 500,000	896,400 164,200 125,000 281,000 950,000	1,257,600 247,500 175,000 393,400 1,450,000	1,648,800 336,900 225,000 505,800 1,950,000	2,071,200 428,700 275,000 618,200 2,450,000	2,524,800 522,900 325,000 730,600 2,950,000	3,009,600 618,300 375,000 843,000 3,450,000	3,522,000 713,700 425,000 955,400 3,950,000	<u>Total</u>
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			70,800 - - - - - <u>70,800</u>	274,800 28,200 25,000 56,200 150,000	565,200 90,700 75,000 168,600 500,000	896,400 164,200 125,000 281,000 950,000	1,257,600 247,500 175,000 393,400 1,450,000	1,648,800 336,900 225,000 505,800 1,950,000	2,071,200 428,700 275,000 618,200 2,450,000	2,524,800 522,900 325,000 730,600 2,950,000	3,009,600 618,300 375,000 843,000 3,450,000	3,522,000 713,700 425,000 955,400 3,950,000 <u>9,566,100</u>	<u>Total</u>

EB-2019-0255

Community Expansion Woodville

Community Expansion

Woodville

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 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 6J-2 Redacted

\$ 8,629,036

<u>Year 10</u> 33,576

<u>Year 10</u> 6.79

Project Year 158,216 \$ 1,146,780 12,406 57,794 99,706 115,776 126,899 134,349 140,868 147,387 153,379 16,284 106,582 199,019 233,933 254,587 262,890 270,618 278,346 285,798 292,146 2,200,203 28,690 <u>164,376</u> 298,725 349,709 <u>381,486</u> <u>397,239</u> <u>411,486</u> <u>425,733</u> <u>439,177</u> <u>450,362</u> <u>\$ 3,346,983</u>

Net Present Value







1.00

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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

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EB-2019-0255 Schedule 6J-2 Redacted

Schedule 6J-3 Enbridge Gas Community Expansion Project Proposal

Woodville (Kawartha Lakes)

Section 3.4 Woodville

Total Forecasted Customers 257 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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total) community switching to natural gas (tCO2e)
Oil	54	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 84,719	7.2	-2.7	387	(144)
Electricity F/A	23	9%				-	\$ 16,340				91
Electricity Baseboard	31	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 21,787	0.6	3.9	18	121
Propane	113	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 32,039	5.6	-1.1	632	(123)
Wood	23	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	13	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	257	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 154,885	13.9	4.1	1,051	(56)

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.

		Er	nission Factors		
	CO2	CH4	N2O	CO2e U	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)

	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 6J-4 Enbridge Gas Community Expansion Project Proposal

Woodville (Kawartha Lakes)

Woodville Community Expansion Project Pipeline Construction Schedule

Task Name						202	22										20	023											20)24					
rask Name	Jan	Feb	Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Эес	Jan F	eb M	ar Ap	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 6J-5 Enbridge Gas Community Expansion Project Proposal

Woodville (Kawartha Lakes)

EB-2019-0255 Schedule 6J-5



The Corporation of the City of Kawartha Lakes

P.O. Box 9000, 26 Francis St., Lindsay, Ontario K9V 5R8 Tel: (705) 324-9411 ext. 1320, 1 888-822-2225 Fax: (705) 324-8110

aletham@kawarthalakes.ca

June 11, 2020

Re: Expression of Support for Natural Gas Expansion to Woodville

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 Support Program will unlock financial support needed to expand natural gas service to new areas across Ontario that are not economically feasible without support. The City of Kawartha Lakes is one such area, and we are eager to bring this affordable, reliable fuel source to more residents and businesses.

On behalf of City of Kawartha Lakes, I would like to formally support the inclusion of Woodville on Enbridge Gas' list of projects being proposed to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Support Program.

Based on the Guidelines issued by the OEB (EB-2019-0255) on March 5th, 2020, we are aware that Enbridge Gas may include support for the proposed project from local government, demonstrated through a written expression of support in its project submissions.

Natural gas is the most common, affordable heating fuel in Ontario. The City of Kawartha Lakes supports the efforts of Enbridge Gas, 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 more residents and business owners.

Sincerely,

Andy Letham

Mayor

City of Kawartha Lakes

Schedule 6J-6 Enbridge Gas Community Expansion Project Proposal

Woodville (Kawartha Lakes)

EB-2017-0147

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 in the

City of Kawartha Lakes

DATED at Toronto, March 1, 2018

ONTARIO ENERGY BOARD

Original Signed By

Kirsten Walli Board Secretary

Schedule 6K 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: Kinkora 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 II	I – Description of and Su	pport for Project		
3.1 Redacted	Provide a general overvi			
redacted	•	•	uding whether the project	
			nunities; existing population	
	sectors; routing; length			
	Scotors, routing, length	or pipeline, and norm	nai pipe size.	
	Enbridge Gas is proposing to	o provide gas distribution	service in the community of Kinko	ra
	within the Township of Perth	East. The proposed fac	ilities will provide access to natural	
	gas to a forecasted 29 custo		ommercial / institutional, 1	
	agricultural intensive and 1 in	ndustrial).		
	The proposed project will tie	in to an existing 2" polye	thylene pipe near the intersection	of
			ipeline will consist of 4,100 m of 2"	
			e and extend from the tie-in	
	alongto	o and		
	The existing Wartburg station	n will require upsizina.		
	The approximate length and	size of the distribution pi	pelines required:	
	Din a Tima	Diameter (NDC)	Law odla (m)	
	Pipe Type Polyethylene	Diameter (NPS)	Length (m) 4,100	
	Folyethylene		4,100	
	The approximate length and	size of the supply lateral	s required:	
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	4	3,000	
	Diagon refer to Calcadula (NZ 4 for Droingt Man		
	Please refer to Schedule 6	ok-i ioi Projectiviap.		
3.2	Provide the annual and	cumulative forecast o	f the number of customer	
5.2	attachments over the ter			
	commercial/institutional			
	Indicate for each custom			
	would be firm or interrup	. .	- -	
		=		
	Please refer to Schedule 6	6K-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 6K-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 6K-3, 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 6K-4 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 6K-5.

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 6K-6 for Enbridge's CPCN for the Town of Perth East (RP-2003-0043 / EB-2003-0055) 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 6K-2, 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 6K-2, 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.
	\$3,072,782
	Please refer to Schedule 6K-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$105,958
	Please refer to Schedule 6K-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$14.04
	Please refer to Schedule 6K-2, 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 6K-2, 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.

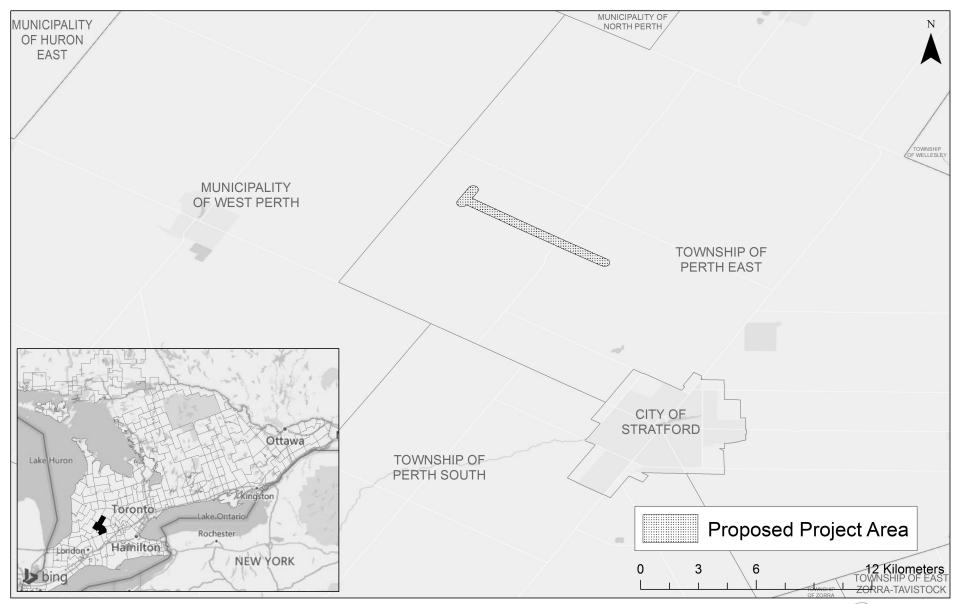
The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a "portfolio" of projects).

Please refer to Schedule 6K-2, 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 6K-2, Table 7.2.

Schedule 6K-1 Enbridge Gas Community Expansion Project Proposal





Schedule 6K-2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Kinkora

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over 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

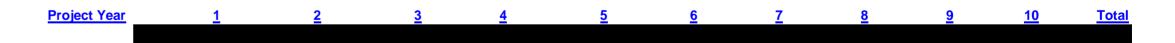
Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule 6K-2 Redacted

Project Year	<u>1</u> 5	2 5	<u>3</u> 4	<u>4</u> 2	5 2	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u> 23				
	-	3	-	-	-	-	-	-	-		3				
	-	1	-	-	-	-	-	-	-	-	1				
	-	1	-	-	-	-	-	-	-	-	1				
	-	1	-	-	-	-	-	-	-	_	1_				
	<u>5</u>	<u>11</u>	<u>4</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>29</u>				
	5	16	20	22	24	25	26	27	28	29					
	Annual Volumes - m3 1 2 3 4 5 6 7 8 9 10														
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>				
	5,500	16,500	26,400	33,000	37,400	40,700	42,900	45,100	47,300	49,500	344,300				
	-	8,600	17,200	17,200	17,200	17,200	17,200	17,200	17,200	17,200	146,200				
	-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000				
	-	1,100	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	18,700				
	-	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000				
	<u>5,500</u>	<u>101,200</u>	<u>195,800</u>	<u>202,400</u>	<u>206,800</u>	<u>210,100</u>	<u>212,300</u>	<u>214,500</u>	<u>216,700</u>	<u>218,900</u>	<u>1,784,200</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>					
	5,500	22,000	48,400	81,400	118,800	159,500	202,400	247,500	294,800	344,300					
	, -	8,600	25,800	43,000	60,200	77,400	94,600	111,800	129,000	146,200					
	-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000					
	-	1,100	3,300	5,500	7,700	9,900	12,100	14,300	16,500	18,700					
	-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000					
	<u>5,500</u>	<u>106,700</u>	<u>302,500</u>	504,900	<u>711,700</u>	921,800	<u>1,134,100</u>	<u>1,348,600</u>	<u>1,565,300</u>	1,784,200					





Year 10

Community Expansion Kinkora

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 6K-2 Redacted

\$ 3,072,782

<u>Year 10</u> 105,958

\$ 14.04

Project Year 817 11,673 13,143 13,470 14,123 \$ 108,694 5,837 10,693 12,326 12,816 13,796 1,265 23,276 45,034 46,552 47,564 48,323 48,829 49,335 49,841 50,347 410,366 2,082 29,113 55,727 58,225 59,890 61,139 61,972 62,805 63,637 <u>64,470</u> \$ 519,060

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 6K-2 Redacted

Schedule 6K-3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Kinkora

Total Forecasted Customers 29 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 per customer - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	6	21%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 9,567	6.7	-2.5	41	(15)
Electricity F/A	3	9%				-		0.5			9
Electricity Baseboard	3	12%				-		0.5	3.6		12
Propane	13	44%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 4,695	5.2	-1.1	66	(14)
Wood	3	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	1	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	29	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 17,553	12.9	3.6	110	(7)

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

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

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

Emission Factor Sources:

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

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

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

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

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

Rate M1 (Community Expansion, Non-FN)												
	Consumption Equivale		Price per Unit									
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.572							
Heating oil	L	2433	Heating oil	\$/L	1.163							
Electricity	kWh	18046	Electricity	\$/kWh	0.112							
Propane	L	3359	Propane	\$/L	0.484							

Notes:

Gas prices correspond to EGI (Union Gas South) 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

South Propane prices correspond to the latest available montly average EDPRO residential rates for Zone 1 (March 2020).

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

Schedule 6K-4 Enbridge Gas Community Expansion Project Proposal

Kinkora Community Expansion Project Pipeline Construction Schedule

Task Namo		2022									2023										2024														
Task Name		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 6K-5 Enbridge Gas Community Expansion Project Proposal

Township of Perth East



P.O. Box 455, 25 Mill Street Milverton, Ontario NOK 1M0 Phone (519) 595-2800 Fax (519) 595-2801

July 7, 2020

Brian Lennie Senior Advisor, Municipal Affairs & Stakeholder Relations Ontario South/West Division Enbridge Gas Inc.

Dear Mr. Lennie,

Re: Expression of Support for Natural Gas Expansion to Township of Perth East / Kinkora and Brunner 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. 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 Perth East, I would like to formally express our interest to have the Kinkora/Brunner 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 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,

Theresa Campbell

Chief Administrative Officer

Township of Perth East

519-595-2800 ext. 232

Schedule 6K-6 Enbridge Gas Community Expansion Project Proposal

Kinkora



RP-2003-0043

EB-2003-0055

2

3

5

IN THE MATTER OF the *Municipal Franchises Act*, R.S.O. 1990, c. M.55, as amended;

AND IN THE MATTER OF an application by Union Gas Limited for an order cancelling and replacing the existing Certificates of Public Convenience and Necessity for the Township of Perth East.

Before:

Art Birchenough Presiding Member

Ken McCann Member

ORDER GRANTING A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

Union Gas Limited ("Union") filed a application dated February 28, 2003 (the "Certificate Application") with the Ontario Energy Board (the "Board") under the *Municipal Franchises Act*, R.S.O. 1990, c. M.55 as amended (the "Act") for an order cancelling the existing Certificates of Public Convenience and Necessity for the predecessor municipalities of the Township of Perth East (Township of Ellice (F.B.C. 232) Township of North Easthope (F.B.C. 229), Township of South Easthope (F.B.C. 233)) and replacing them with a Certificate of Public Convenience and Necessity for the new Township of Perth East. The Board has assigned File No. RP-2003-0043/EB-2003-0055 to this Certificate Application.

The Board's Notice of Application was published on March 21, 2003. There were no intervenors. On April 30, 2003 the Board issued a Notice of Written Hearing. No party satisfied the Board that there was a good reason for not holding a written hearing. The replacement Certificate does not grant Union any additional rights to those it held under the predecessor certificates, and is requested by Union in order to recognize new municipal boundaries.

The Board found that, based on the evidence, granting the Certificate Application was in the public interest.

DocID: OEB: 12R1G-0

10

THE BOARD THEREFORE ORDERS THAT:

12

11

1. The existing Certificates of Public Convenience and Necessity for the Township of Ellice (F.B.C. 232), Township of North Easthope (F.B.C. 229) and Township of South Easthope (F.B.C. 233) are cancelled and replaced with a single Certificate of Public Convenience and Necessity for the Township of Perth East (EB-2003-0055).

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2. A Certificate of Public Convenience and Necessity is granted to Union Gas Limited to construct works to supply gas in the Township of Perth East (EB-2003-0055).

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DATED at Toronto, July 29, 2003.

ONTARIO ENERGY BOARD

Peter H. O'Dell Assistant Board Secretary

DocID: OEB: 12R1G-0

Schedule 6L 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: Lanark and Balderson Community Expansion Project									
Project Name: Lanark and Balderson Community Expa	ansion 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 in the community of Lanark within the Township of Lanark Highlands and in the community of Balderson within the Township of Drummond / North Elmsley. The proposed facilities will provide access to natural gas to a forecasted 334 customers (282 residential, 42 commercial / institutional and 10 industrial). The project proposes to tie-in to an existing system in the Town of Perth at the intersection of _ and ____. The supply lateral runs _ to Balderson and then on to Lanark. The project will require rebuilding the station at the tie-in point. The approximate length and size of the supply laterals required: Pipe Type Diameter (NPS) Length (m) Polyethylene 13,050 6 The approximate length and size of the distribution pipelines required: Pipe Type Diameter (NPS) Length Polyethylene 18,903 2 4.017 Polyethylene 4 Please refer to Schedule 6L-1 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 6L-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 6L-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 6L-3, 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 6L-4 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 6L-5.

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 6L-6 for Enbridge's CPCNs with the Township of Drummond/North Elmsley (EB-2017-0343) and the Town of Perth (FBC 147) which cover the southern section of the proposed project.

A CPCN will be required for the portion of the project within the Township of Lanark Highlands.

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 6L-2, 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 6L-2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project. \$12,673,429
	Please refer to Schedule 6L-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$37,944
	Please refer to Schedule 6L-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$6.70
	Please refer to Schedule 6L-2, 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 6L-2, 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).

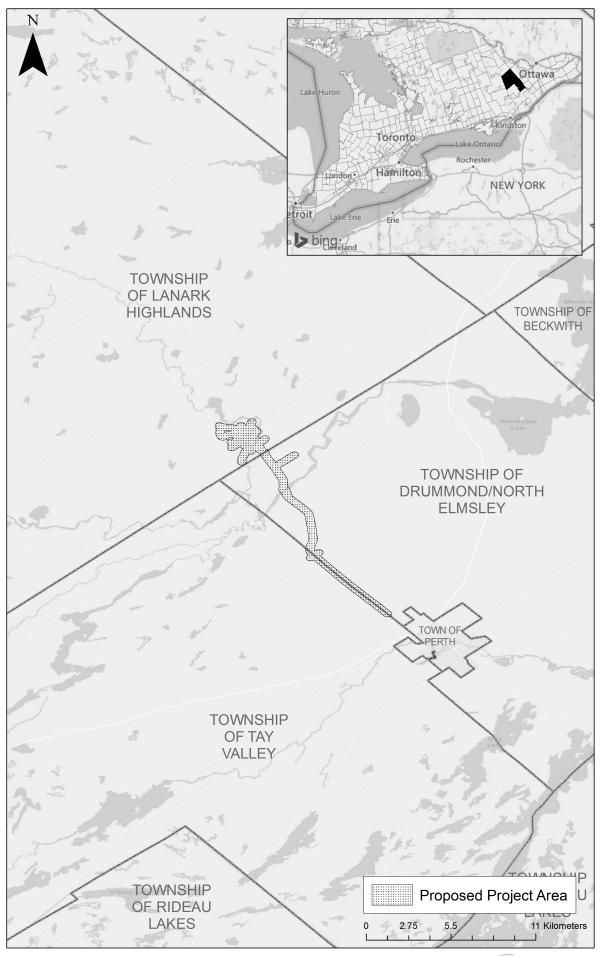
Please refer to Schedule 6L-2, Table 7.1.

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 6L-2, Table 7.2.

Schedule 6L-1 Enbridge Gas Community Expansion Project Proposal

Lanark & Balderson





Schedule 6L-2 Enbridge Gas Community Expansion Project Proposal

InService Date: Nov-01-2023												Schedule 6l Redacted	
Table 3.2 - Customer 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>	Total 282
Residential	Firm		76	65	26	18	14	18	16	18	16	15	
Commercial	Firm		-	21	8	4	2	1	1	1	1	1	40
Institutional	Firm		-	2	-	-	-	-	-	-	-	-	2
Agricultural	Firm		-	-	-	-	-	-	-	-	-	-	-
Industrial	Firm		- 70	3	2	1	1	1	1	1	- 47	- 40	10
Total Customers			<u>76</u>	<u>91</u>	<u>36</u>	<u>23</u>	<u>17</u>	<u>20</u>	<u>18</u>	<u>20</u>	<u>17</u>	<u>16</u>	<u>334</u>
Cumulative Customers			76	167	203	226	243	263	281	301	318	334	
Table 3.3 - Annual and Cumulative Volumes Over The Rate Stability Period (m	3)												
Customer Time		Drainet Veer	4	•	•		Annu	al Volumes -			0	40	Total
Customer Type Residential		Project Year	<u>1</u> 87,836	2 251,149	356,565	407,262	<u>5</u> 444,401	<u>6</u> 481,539	<u>7</u> 520,657	<u>8</u> 559,775	9 598,893	<u>10</u> 634,411	<u>Total</u>
Commercial				40,500	100,800	130,500	142,800	146,400	148,800	151,200	153,600	156,000	4,342,487
Institutional			-										1,170,600
Agricultural			-	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
Industrial			-	150,000	400,000	550,000	650,000	750,000	- 850,000	950,000	1,000,000	1,000,000	6,300,000
Total Volumes			<u>87,836</u>	491,649	957,365	<u>1,187,762</u>	1,337,201	1,477,939	1,619,457	1,760,975	1,000,000 1,852,493	1,890,411	12,663,087
Total volumes			<u>07,030</u>	431,043	<u>937,303</u>	<u>1,107,702</u>	<u>1,557,201</u>	<u>1,477,333</u>	<u>1,019,437</u>	1,700,973	1,002,430	<u>1,030,411</u>	12,003,007
Customer Type		Project Year	1	2	2	4	_	ative Volumes		0	0	10	
		<u>Froject real</u>	<u>1</u>	<u>2</u>	<u>3</u>	4 400 040	1,547,212	<u>6</u> 2,028,751	<u>7</u> 2,549,408	3,109,183	3,708,076	<u>10</u> 4,342,487	
				220 005	COE EEO			/ U/O /:) I	2.349.400		3.700.070	4.042.407	
Residential			87,836	338,985	695,550	1,102,812							
Residential Commercial			87,836 -	40,500	141,300	271,800	414,600	561,000	709,800	861,000	1,014,600	1,170,600	
Residential Commercial Institutional			87,836 - -	40,500 50,000	141,300 150,000	271,800 250,000	414,600 350,000	561,000 450,000	709,800 550,000	861,000 650,000	1,014,600 750,000	1,170,600 850,000	
Residential Commercial Institutional Agricultural			87,836 - - -	40,500 50,000 -	141,300 150,000 -	271,800 250,000 -	414,600 350,000 -	561,000 450,000 -	709,800 550,000 -	861,000 650,000 -	1,014,600 750,000 -	1,170,600 850,000 -	
Residential Commercial Institutional Agricultural Industrial			87,836 - - - -	40,500 50,000 - 150,000	141,300 150,000 - 550,000	271,800 250,000 - 1,100,000	414,600 350,000 - 1,750,000	561,000 450,000 - 2,500,000	709,800 550,000 - 3,350,000	861,000 650,000 - 4,300,000	1,014,600 750,000 - 5,300,000	1,170,600 850,000 - 6,300,000	
Residential Commercial Institutional Agricultural			87,836 - - -	40,500 50,000 -	141,300 150,000 -	271,800 250,000 -	414,600 350,000 -	561,000 450,000 -	709,800 550,000 -	861,000 650,000 -	1,014,600 750,000 -	1,170,600 850,000 -	
Residential Commercial Institutional Agricultural Industrial			87,836 - - - -	40,500 50,000 - 150,000	141,300 150,000 - 550,000	271,800 250,000 - 1,100,000	414,600 350,000 - 1,750,000	561,000 450,000 - 2,500,000	709,800 550,000 - 3,350,000	861,000 650,000 - 4,300,000	1,014,600 750,000 - 5,300,000	1,170,600 850,000 - 6,300,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period			87,836 - - - -	40,500 50,000 - 150,000	141,300 150,000 - 550,000	271,800 250,000 - 1,100,000	414,600 350,000 - 1,750,000	561,000 450,000 - 2,500,000	709,800 550,000 - 3,350,000	861,000 650,000 - 4,300,000	1,014,600 750,000 - 5,300,000	1,170,600 850,000 - 6,300,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes			87,836 - - - - - <u>87,836</u>	40,500 50,000 - 150,000	141,300 150,000 - 550,000	271,800 250,000 - 1,100,000	414,600 350,000 - 1,750,000	561,000 450,000 - 2,500,000	709,800 550,000 - 3,350,000	861,000 650,000 - 4,300,000	1,014,600 750,000 - 5,300,000	1,170,600 850,000 - 6,300,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period			87,836 - - - - - <u>87,836</u>	40,500 50,000 - 150,000	141,300 150,000 - 550,000	271,800 250,000 - 1,100,000	414,600 350,000 - 1,750,000	561,000 450,000 - 2,500,000	709,800 550,000 - 3,350,000	861,000 650,000 - 4,300,000	1,014,600 750,000 - 5,300,000	1,170,600 850,000 - 6,300,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period Total Capital Costs		Project Year	87,836 - - - - - <u>87,836</u>	40,500 50,000 - 150,000	141,300 150,000 - 550,000	271,800 250,000 - 1,100,000	414,600 350,000 - 1,750,000	561,000 450,000 - 2,500,000	709,800 550,000 - 3,350,000	861,000 650,000 - 4,300,000	1,014,600 750,000 - 5,300,000	1,170,600 850,000 - 6,300,000	<u>Total</u>
Residential Commercial Institutional Agricultural Industrial Total Volumes Table 4.2 - Total Capital Costs At End Of The Rate Stability Period Total Capital Costs		Project Year	87,836 - - - - - <u>87,836</u>	40,500 50,000 - 150,000	141,300 150,000 - 550,000	271,800 250,000 - 1,100,000	414,600 350,000 - 1,750,000	561,000 450,000 - 2,500,000	709,800 550,000 - 3,350,000	861,000 650,000 - 4,300,000	1,014,600 750,000 - 5,300,000	1,170,600 850,000 - 6,300,000 12,663,087	<u>Total</u>
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		Project Year	87,836 - - - - - <u>87,836</u>	40,500 50,000 - 150,000	141,300 150,000 - 550,000	271,800 250,000 - 1,100,000	414,600 350,000 - 1,750,000	561,000 450,000 - 2,500,000	709,800 550,000 - 3,350,000	861,000 650,000 - 4,300,000	1,014,600 750,000 - 5,300,000	1,170,600 850,000 - 6,300,000 12,663,087	<u>Total</u>

EB-2019-0255

Community Expansion Lanark and Balderson

Community Expansion Lanark and Balderson 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 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 6L-2 Redacted

\$ 12,673,429

<u>Year 10</u> 37,944

Year 10 6.70

Project Year 216,474 \$ 1,487,087 15,747 67,919 119,651 143,651 158,839 172,117 185,262 198,406 209,020 20,202 113,079 220,194 273,185 307,556 339,926 372,475 405,024 426,073 434,795 2,912,510 35,950 180,998 339,845 <u>416,837</u> <u>512,043</u> <u>557,737</u> 603,430 <u>651,268</u> \$ 4,399,597

Net Present Value







1.00

Page 2 of 3

Community Expansion Lanark and Balderson 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 6L-2

Redacted

Schedule 6L-3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Lanark and Balderson

Total Forecasted Customers 334 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 -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	70	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 110,102	7.2	-2.7	503	(188)
Electricity F/A	30	9%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 21,236	0.6	3.9	18	118
Electricity Baseboard	40	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 28,315	0.6	3.9	23	157
Propane	147	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 41,638	5.6	-1.1	821	(160)
Wood	30	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	334	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 201,290	13.9	4.1	1,365	(73)

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

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

		Emission Factors											
	CO2	CH4	N2O	CO2e Units									
Natural Gas	1863 g/m3	0.037 g/m3	0.035 g/m3	0.001874355 tonnes/m3									
Heating Oil	2725 g/L	0.006 g/L	0.031 g/L	0.002734388 tonnes/L									
Propane	1510 g/L	0.024 g/L	0.108 g/L	0.001542784 tonnes/L									
Electricity	30 g/kWh	-	-	0.00003 tonnes/kW									
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 6L-4 Enbridge Gas Community Expansion Project Proposal

Lanark and Balderson Community Expansion Project Pipeline Construction Schedule

Task Name		2022										2023											2024												
rask name		Feb	Mar	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 6L-5 Enbridge Gas Community Expansion Project Proposal



June 26, 2020

Enbridge Gas Inc. 400 Coventry Road Ottawa, Ontario K1K 2C7

ATTENTION: Mr. Ian Ross, P. Eng, MBA

Director - Eastern Region Operations

Dear Sir:

RE: Expression of Support for Natural Gas Expansion to the Township of Lanark Highlands

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 Lanark Highlands, I would like to formally express our interest to have the Natural Gas Expansion to the Township of Lanark Highlands 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,

Peter McLaren Reeve



The Corporation of the Township of Drummond/North Elmsley

310 Port Elmsley Road • Perth • Ontario • K7H 3C7

EB-2019-0255 Schedule 6L-5(b)

July 17, 2020

Dear Regional Director:

RE: Expression of Support for Natural Gas Expansion to the Township of Drummond/North Elmsley in the Hamlet of Balderson

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 Drummond/North Elmsley, I would like to formally express our interest to have Balderson Hamlet project name 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 Bank 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.

If you have any questions with respect to the above, please do not hesitate to contact me at 613-267-6500.

Yours truly,

Stephen Fournier

Reeve

Phone: 613-267-6500 Fax: 613-267-2083 www.dnetownship.ca

Schedule 6L-6 Enbridge Gas Community Expansion Project Proposal

EB-2017-0343

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 Drummond/North Elmsley

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

DATED at Toronto, March 29, 2018

ONTARIO ENERGY BOARD

Pascale Duguay
Manager, Application Policy and Climate Change

FBC 147

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

EB-2019-0255 Schedule 6L-6(b)

AND IN THE MATTER OF an application by The Consumers' GasCompany of Toronto for a certificate of public convenience and necessity to construct works and to supply natural gas to the Town of Perth in the County of Lemark

BEFORE:

A. R. Croster, Chairman Tuesday, the 12th day W. R. Howard, Commissioner) of Hovember, 1957.

CHARLE OF PUBLIC CONVENIENCE AND INSCRESSION

UPON THE APPLICATION of The Consumers' Ges Company of Poronto (hereinafter called the Applicant) for a certificate pursuant to the provisions of The Municipal Prenchises Act, R.S.O. 1990 Chapter 249 and amendments thereto and upon the hearing of such application by the Board at the City of Toronto on the 12th day of November, 1957 after due notice had been given as directed by the Board in the presence of Counsel for the Applicant no one else appearing the Board being pleased to adjourn the said application until November 22nd, 1957 and the same coming on that day 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 for the Applicant,

- THIS BOARD BOTH ORDER THAT a Certificate of Public Convenience and Mecessity be and the same is hereby granted to The Consumers' Gas Company of Toronto for the supply of natural gas to the inhabitants of the Town of Perth and for the construction of the works necessary therefor,
- The Board fixes the costs of this Application at \$10.00 payable forthwith by the Applicant.

IMTED at Poronto this To day of Secola, 1957.

ONTARIO FUEL BOARD

... A. Come C....

Commissioner (

1200

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

AND IN THE MATTER OF an application by The Consumers' Ges Company of Toronto for a certificate of public convenience and necessity to construct works and to supply natural gas to the Town of Perth in the County of Lanark

CENTIFICATE OF MUBLIC CONVENIENCE AND NECESSITY

ZDMERMAN, HAYWOOD & TURVILLE 111 Richmond Street West, TUROWTO, Ontario.