Schedule O 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: Georgian Bluffs Community Exp	pansion Project			
Address of Head Office:	Telephone Number:			
50 Keil Drive North	519-436-4600			
Chatham, ON N7M 5M1				
Name of Individual to Contact:	Office Telephone Number:			
	519-436-5325			
Patrick McMahon	Cell Phone Number:			
	519-437-0759			
	Email Address:			
	patrick.mcmahon@enbridge.com			

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

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

A proponent that is not currently rate-regulated as a natural gas distributor by the OEB and that has multiple proposed projects is only required to provide the information in this Part once, unless the proponent has different organizational or financial structure approaches for its projects. In that case, the information in this Part must be provided for each different organizational or financing structure.

Part	II – Description of Proponent's Technical Expertise and Financial Capability
2.1	Describe the proponent's technical expertise to develop, construct, operate and maintain a natural gas distribution system. N/A
2.2	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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 I	II – Description of and Sup	oport 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 nomin	ai pipe size.	
	Enbridge Gas is proposing to	serve the Township of Ge	eorgian Bluffs within Grey County.	
	The proposed facilities will pr (88 residential, 3 commercial		as to a forecasted 92 customers rial).	
			and ne. The proposed distribution	
	pipeline will consist of 6,130	m of 2" polyethylene pipe	and 1,540 m of 4" polyethylene	
	pipe. The proposed distribut	ion system will extend nor	th via to	
	up to	and will ex	to and continuing	
	through, up	o to, near	,and continuing	
	There will be no reinforceme No new stations or any static		te additional loads for the system.	
	The approximate length and	size of the distribution pipe	elines required:	
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	2	6,130	
	The approximate length and	size of the supply laterals	required:	
	Ріре Туре	Diameter (NPS)	Length (m)	
	Polyethylene	4	1,540	
	Please refer to Schedule C	01 for Project Map.		
3.2	Provide the annual and c attachments over the ter	year rate stability per	iod 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 C	02, Table 3.2.		

3.3	Provide the annual and cumulative forecast of volumes (in m <sup>3</sup> ) 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 m <sup>3</sup> 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 O2, 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 O3, 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 O4 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 O5.

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 O6 for Enbridge's CPCN for the Township of Georgian Bluffs (RP-2004-0191 / EB-2004-0381) that covers the entire area of the proposed project.			
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 O2, 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 O2,	Table 4.3.			

Part	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$2,974,796
	Please refer to Schedule O2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$32,335
	Please refer to Schedule O2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$9.67
	Please refer to Schedule O2, Table 5.3.

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Part VI – Distributio	n 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 O2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part V	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 O2, 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 O2, Table 7.2.

Part V	/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			
	<ul> <li>System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)</li> </ul>			
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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule O4.			

# Schedule O1 Enbridge Gas Community Expansion Project Proposal



# Schedule O2 Enbridge Gas Community Expansion Project Proposal

#### Community Expansion Georgian Bluffs InService Date: Nov-01-2023

Table 3.2 - Custome	r Attachments Over	The Rate Stabilit	y Period
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3.2 - Customer Attachments Over The Rate Stability Period													
Customer Type	<u>Firm / IT</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	Firm		26	20	13	7	7	3	3	3	3	3	88
Commercial	Firm		-	2	-	-	-	-	-	-	-	-	2
Institutional	Firm		-	-	-	-	-	-	-	-	-	-	-
Agricultural	Firm		-	1	-	-	-	-	-	-	-	-	1
Industrial	Firm		-	1	-	-	-	-	-	-	-	-	1
Total Customers			<u>26</u>	<u>24</u>	<u>13</u>	<u>7</u>	<u>7</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>92</u>
Cumulative Customers			26	50	63	70	77	80	83	86	89	92	

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

	Annual 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		28,600	79,200	115,500	137,500	152,900	163,900	170,500	177,100	183,700	190,300	1,399,200			
Commercial		-	3,600	7,200	7,200	7,200	7,200	7,200	7,200	7,200	7,200	61,200			
Institutional		-	-	-	-	-	-	-	-	-	-	-			
Agricultural		-	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85,000			
Industrial		-	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000			
Total Volumes	—	<u>28,600</u>	<u>137,800</u>	<u>232,700</u>	<u>254,700</u>	<u>270,100</u>	<u>281,100</u>	<u>287,700</u>	<u>294,300</u>	<u>300,900</u>	<u>307,500</u>	<u>2,395,400</u>			

		Cumulative 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>				
Residential		28,600	107,800	223,300	360,800	513,700	677,600	848,100	1,025,200	1,208,900	1,399,200				
Commercial		-	3,600	10,800	18,000	25,200	32,400	39,600	46,800	54,000	61,200				
Institutional		-	-	-	-	-	-	-	-	-	-				
Agricultural		-	5,000	15,000	25,000	35,000	45,000	55,000	65,000	75,000	85,000				
Industrial		-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000				
Total Volumes		<u>28,600</u>	<u>166,400</u>	<u>399,100</u>	<u>653,800</u>	<u>923,900</u>	<u>1,205,000</u>	<u>1,492,700</u>	<u>1,787,000</u>	<u>2,087,900</u>	<u>2,395,400</u>				

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

Total Capital Costs		<u>Year 10</u>										
Table 4.3 - Revenue Requirement Over The Rate Stability Period												
Revenue Requirement	Project Year	<u>1</u>	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	Z	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
Closing Rate Base (net of proposed Section 36.2 funding)		<u>Year 10</u>										

## EB-2019-0255 Schedule O2 Redacted

#### Community Expansion Georgian Bluffs InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding		
Section 36.2 Funding Needed to Support the Project	<u>\$ 2,974,796</u>	
Table 5.2 - Section 36.2 Funding Amount Per Customer Served		
	Year 10	
Section 36.2 Funding Amount Per Customer Served	<u>\$ 32,335</u>	
able 5.3 - Section 36.2 Funding Amount Per Volume (m3)		
Section 36.2 Funding Amount Per Year 10 Volume (m3)	\$ 9.67	
	<u> </u>	
able 6.1 - Distribution Charge		
		_
	Project Year 1	<u>2</u>
Distribution Revenue	\$ 4,246 14,17	
SES Revenue Total Distribution Charge	<u>6,578</u> <u>31,69</u> <u>\$10,824</u> <u>45,87</u>	
able 7.1 - Profitability Index (PI) Inclusive of Section 36.2 Funding		
Coop Inflow	Net Present Value	
Cash Inflow	Net Present Value	
Revenue:	<u>Net Present Value</u>	
Revenue: Distribution Revenue	<u>Net Present Value</u>	
Revenue:	<u>Net Present Value</u>	
Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A)	<u>Net Present Value</u>	
Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A) Expenses:	<u>Net Present Value</u>	
Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A) Expenses: O&M Expense	<u>Net Present Value</u>	
Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A) Expenses: O&M Expense Municipal Tax	<u>Net Present Value</u>	
Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A) Expenses: O&M Expense	Net Present Value	
Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A) Expenses: O&M Expense Municipal Tax Income Tax	Net Present Value	
Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A) Expenses: O&M Expense Municipal Tax Income Tax Total Expenses (B)	Net Present Value	
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)	Net Present Value	
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	Net Present Value	
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		
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	Net Present Value	
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	<u>Net Present Value</u>	

EB-2019-0255 Schedule O2 Redacted

<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>
21,983	25,249	27,536	29,169	30,149	31,129	32,109	33,089 \$	248,834
53,521	58,581	62,123	64,653	66,171	67,689	69,207	70,725	550,942
<u>75,504</u>	<u>83,830</u>	<u>89,659</u>	<u>93,822</u>	<u>96,320</u>	<u>98,818</u>	<u>101,316</u>	<u>103,814</u>	799,776

#### Community Expansion Georgian Bluffs InService Date: Nov-01-2023

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> 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 O2 Redacted

# Schedule O3 Enbridge Gas Community Expansion Project Proposal

#### Section 3.4 Georgian Bluffs

#### **Total Forecasted Customers** 92 **Penetration Rate** 65%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	Estimated Annual Energy Costs (existing fuel)	Estimated Annual Energy Costs (natural gas)	Estimated Annual Savings per customer	Estimated Annual Savings	Estimated Annual GHG per customer - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	19	21%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 30,351	6.7	-2.5	129	(49)
Electricity F/A	8	9%									30
Electricity Baseboard	11	12%		\$ 1,626	\$ 1,258	\$ 368	\$ 4,062	0.5	3.6	6	40
Propane	40	44%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 14,893	5.2	-1.1	210	(43)
Wood	8	9%	\$ 3,500	N/A	N/A	\$-	N/A	N/A	N/A	N/A	N/A
Other	5	5%	\$ 5,000	N/A	N/A	\$-	N/A				
Total	92	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 55,685	12.9	3.6	349	(22)

2 Parad on Market Paragraph anthored information All of the casts are installed casts, so the cast of new anyinment + the cast of having it installed

2 Based on Market Research gathered information. An of the costs are installed costs, so the cost of new equipment + the cost	oj naving it installea.

		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	e M1 (Community Expansi	ion, Non-FN)		
	Consumption Equivale	ent		Price per Uni	t
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.

#### EB-2019-0255 Schedule O3

# Schedule O4 Enbridge Gas Community Expansion Project Proposal

# Georgian Bluffs Community Expansion Project Pipeline Construction Schedule

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

Schedule O5 Enbridge Gas Community Expansion Project Proposal



April 16, 2020

Enbridge Gas Inc. Att: Murray Costello, Director, Southeast Region Operations 603 Kumpf Drive Waterloo, ON N2J 4A4

Dear Mr. Costello,

#### Re: Expression of Support for Natural Gas Expansion to Georgian Bluffs Township

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

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

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

Sincerely,

Mayor Dwight Burley Township of Georgian Bluffs <u>dburley@georgianbluffs.ca</u> 519-376-2729 Schedule O6 Enbridge Gas Community Expansion Project Proposal

Commission de l'Énergie de l'Ontario



RP-2004-0191	1
EB-2004-0381	
Certificate of Public Convenience and Necessity	2
The Ontario Energy Board hereby grants	3
Union Gas Limited	4
approval under section 8 of the <i>Municipal Franchises Act</i> , R.S.O. 1990, c. M.55, to construct works to supply gas to the	5
Township of Georgian Bluffs.	6
This certificate replaces the certificates of the former municipalities that are now within the Township of Georgian Bluffs.	7
DATED at Toronto, July 27, 2004.	8

ONTARIO ENERGY BOARD

Peter H. O'Dell Acting Board Secretary Schedule P Enbridge Gas Community Expansion Project Proposal

\_\_\_\_\_ (South Glengarry)

#### 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:	(South Glengarry) 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

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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	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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 I	Part III – Description of and Support for Project				
3.1 Redacted	Provide a general overview of the project, which is to include the				
	Enbridge Gas is proposing to South Glengarry.	within the Township of			
	The proposed facilities will pr (71 residential, 4 commercial		gas to a forecasted 77 customers strial).		
	The project proposes to tie-in to an existing NPS 2 SC HP system with NPS 4 ST HP to run for approximately to cross A station is proposed to cut the high pressure to HP polyethylene pipe for the distribution system in for From the proposed station, the proposed NPS 2 pipeline runs for to reach the distribution system within which includes approximately 4.4 km of polyethylene pipe.				
	Ріре Туре	Diameter (NPS)	Length (m)		
	SC	4	950		
	The approximate length and size of the distribution pipeline required:				
	Pipe Type Polyethylene	Diameter (NPS) 2	Length (m) 5,600		
3.2	Please refer to Schedule P Provide the annual and c attachments over the ten	umulative forecast o -year rate stability pe	f the number of customer eriod by residential,		
	commercial/institutional Indicate for each custom would be firm or interrup	er type whether the s			
	Please refer to Schedule P	2, Table 3.2.			

3.3	<ul> <li>Provide the annual and cumulative forecast of volumes (in m<sup>3</sup>) over the ten- year rate stability period by residential, commercial/institutional and industrial sectors for each community.</li> <li>For the residential segment, the default value for the average consumption level is 2,200 m<sup>3</sup> 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</li> </ul>
	determined that it is more accurate than the default.
	Please refer to Schedule P2, 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 P3, 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 P4 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 P5.

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 P6 for Enbridge's CPCN for the Township of South Glengarry (EB-2007-0957) that covers the entire area of the proposed project.
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 P2, 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 P2,	Table 4.3.				

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$2,352,112
	Please refer to Schedule P2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$30,547
	Please refer to Schedule P2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$6.10
	Please refer to Schedule P2, Table 5.3.

	-
Part VI – Distributio	n 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 P2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part V	VII – Profitability Index / Benefit to Cost Ratio
7.1	<ul> <li>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.</li> <li>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).</li> </ul>
	Please refer to Schedule P2, 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 P2, Table 7.2.

Part V	VIII – OEB Approvals
8.1	<ul> <li>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).</li> <li>Leave to Construct</li> </ul>
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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule P4.

Schedule P1 Enbridge Gas Community Expansion Project Proposal

\_\_\_\_\_ (South Glengarry)

EB-2019-0255 Schedule P1 Redacted

# South Glengarry



Schedule P2 Enbridge Gas Community Expansion Project Proposal

\_\_\_\_\_ (South Glengarry)

#### **Community Expansion**

# \_\_\_\_\_ (South Glengarry)

InService Date: Nov-01-2022

# Table 3.2 - Customer Attachments Over The Rate Stability Period

Customer Type	<u>Firm / IT</u>	Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	
Residential	Firm		19	17	6	5	
Commercial	Firm		-	4	-	-	
Institutional	Firm		-	-	-	-	
Agricultural	Firm		-	-	-	-	
Industrial	Firm		-	2	-	-	
Total Customers			<u>19</u>	<u>23</u>	<u>6</u>	<u>5</u>	
Cumulative Customers			19	42	48	53	

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

		Annual 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		22,800	66,000	93,600	106,800	117,600	127,200	136,800	146,400	156,000	165,600	1,138,800
Commercial		-	9,900	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	168,300
Institutional		-	-	-	-	-	-	-	-	-	-	-
Agricultural		-	-	-	-	-	-	-	-	-	-	-
Industrial		-	100,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,700,000
Total Volumes		<u>22,800</u>	<u>175,900</u>	<u>313,400</u>	<u>326,600</u>	<u>337,400</u>	<u>347,000</u>	<u>356,600</u>	<u>366,200</u>	<u>375,800</u>	<u>385,400</u>	<u>3,007,100</u>
I otal Volumes		<u>22,800</u>	<u>175,900</u>	<u>313,400</u>	<u>326,600</u>	<u>337,400</u>	<u>347,000</u>	<u>356,600</u>	<u>366,200</u>	<u>375,800</u>	<u>385,400</u>	<u>3,007,100</u>

		Cumulative 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>
Residential		22,800	88,800	182,400	289,200	406,800	534,000	670,800	817,200	973,200	1,138,800
Commercial		-	9,900	29,700	49,500	69,300	89,100	108,900	128,700	148,500	168,300
Institutional		-	-	-	-	-	-	-	-	-	-
Agricultural		-	-	-	-	-	-	-	-	-	-
Industrial		-	100,000	300,000	500,000	700,000	900,000	1,100,000	1,300,000	1,500,000	1,700,000
Total Volumes		<u>22,800</u>	<u>198,700</u>	<u>512,100</u>	<u>838,700</u>	<u>1,176,100</u>	<u>1,523,100</u>	<u>1,879,700</u>	2,245,900	<u>2,621,700</u>	3,007,100

### 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 P2 Redacted

<u>5</u> 4	<u>6</u> 4	<mark>7</mark> 4	<u>8</u> 4	<mark>9</mark> 4	<u>10</u> 4	<u>Total</u> 71								
-	-	-	-	-	-	4								
-	-	-	-	-	-	-								
-	-	-	-	-	-	-								
-	-	-	-	-	-	2								
<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>77</u>								
57	61	65	69	73	77									
Community Expansion Table 5.1 - Total Am	(South Glengarry) InService Date: Nov-01-2022 nount of Section 36.2 Funding											5	EB-2019-0255 Schedule P2 Redacted	
---	---	--------------	-----------------	-------------------------------------	--	--	--	---	--	---	---	---	---	--
Table 5.2 - Section 1	Section 36.2 Funding Needed to Support the Project 36.2 Funding Amount Per Customer Served		\$	2,352,112										
Table 5.2 - Section .	50.2 Funding Amount Fer Customer Serveu													
	Section 36.2 Funding Amount Per Customer Served		\$	<u>Year 10</u> 30,547										
Table 5.3 - Section 3	36.2 Funding Amount Per Volume (m3)													
	Section 36.2 Funding Amount Per Volume (m3)		\$	<u>Year 10</u> 6.10										
Table 6.1 - Distribut	ion Charge													
	Distribution Revenue SES Revenue Total Distribution Charge	Project Year	\$ <u>\$</u>	1 3,995 5,244 <u>9,239</u>	2 19,060 40,457 <u>59,517</u>	<u>3</u> 31,391 72,082 <u>103,473</u>	<b>4</b> 33,704 75,118 <u>108,822</u>	5 35,596 77,602 <u>113,198</u>	<mark>6</mark> 37,278 79,810 <u>117,088</u>	7 38,960 82,018 <u>120,978</u>	8 40,643 84,226 <u>124,869</u>	9 42,325 86,434 <u>128,759</u>	44,007 \$ 320 88,642 69	<u>Total</u> 6,959 1,633 <u>8,592</u>

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

Net Present Value

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

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)







<u>1.00</u>

EB-2019-0255
Schedule P2
Redacted

#### **Community Expansion**

### \_\_\_\_ (South Glengarry)

InService Date: Nov-01-2022

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> 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 P2 Redacted Schedule P3 Enbridge Gas Community Expansion Project Proposal

\_\_\_\_\_ (South Glengarry)

#### Section 3.4 \_\_ (South Glengarry) **Total Forecasted Customers** 77 **Penetration Rate** 46%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	(existing fuel)	Annual	Estimated Annual Savings per customer	Estimated Annual Savings	Estimated Annual GHG per customer Existing Fuel (tCO2e)	GHG is +ve/decreased	Estimated Annual GHG - Total Community - Existing	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	2	3%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 3,358	7.2	-2.7	15	(6)
Electricity F/A	21	28%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 15,110	0.6	3.9	12	84
Electricity Baseboard	14	18%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 9,822	0.6	3.9	8	54
Propane	29	38%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 8,181	5.6	-1.1	161	(31)
Wood	10	13%	\$ 3,500	N/A	N/A	\$-	N/A	N/A	N/A	N/A	N/A
Other	1	1%	\$ 5,000	N/A	N/A	\$-	N/A				
Total	77	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 36,470	13.9	4.1	197	101

1 Based on completed Market Research for this community. Fuel percentages may not add up to 100% due to rounding error.

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

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

**Emission Factor Sources:** 

Natural gas, heating oil and propane CO2 factors: Guideline for Quantification, Reporting and Verification of GHG Emissions - Ontario Ministry of Environment, Conservation and Parks Natural gas, heating oil and propane CH4 and N2O factors: Canada's Greenhouse Gas Quantification Requirements, December 2019 - Environment and Climate Change Canada Electricity factors: 2020 National Inventory Report (Part 3) - Environment and Climate Change Canada (using 2018 consumption intensity for Ontario) Estimated Annual GHG (tCO2e) = Emission Factors x Consumption Equivalent

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

	Rate 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 m<sup>3</sup> 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.

#### EB-2019-0255 Schedule P3 Redacted

Schedule P4 Enbridge Gas Community Expansion Project Proposal

\_\_\_\_\_ (South Glengarry)

## \_\_\_\_\_ (South Glengarry) Community Expansion Project Pipeline Construction Schedule

Teals Name		2021								2022										2023																
Task Name	Jan	Feb	Ma	r Apı	r May	y Jun	n Jul	Aug	g Sep	o Oct	t Nov	v Dec	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																																				
Pre-Construction, Construction and Testing																																				
In Service																																				

EB-2019-0255 Schedule P4 Redacted Schedule P5 Enbridge Gas Community Expansion Project Proposal

\_\_\_\_\_ (South Glengarry)



### **Township of South Glengarry**

6 Oak Street, P.O. Box 220, Lancaster, ON, KOC 1N0 T: (613) 347-1166 | F: (613) 347-3411 <u>www.southglengarry.com</u>

April 27, 2020

EB-2019-0255 Schedule P5 Redacted

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

Dear Mr. lan Ross,

#### Re: Expression of Support for Natural Gas Expansion to the Township of South Glengarry

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 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 South Glengarry, I would to like to formally express our interest to have the 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 local government, as applicable, demonstrated through a written expression of support and/or a commitment to financial support in its project submissions.

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

Please contact Joanne Haley, General Manager - Community Services if you require further information on the project area. Joanne can be reached via email at <u>jhaley@southglengarry.com</u>. The Township of South Glengarry looks forward to working with Enbridge to expand natural gas in our community.

Sincerely

Frank Prevost, Mayor Township of South Glengarry

Schedule P6 Enbridge Gas Community Expansion Project Proposal

\_\_\_\_\_ (South Glengarry)

#### EB-2007-0957

## **Certificate of Public Convenience and Necessity**

The Ontario Energy Board hereby grants

### Enbridge Gas Distribution Inc.

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

### **Township of South Glengarry**

This certificate replaces the certificates or portions of certificates associated with the former entities that are now within the Township of South Glengarry

DATED at Toronto, March 13, 2008

ONTARIO ENERGY BOARD

Original signed by

Neil McKay Manager, Facilities Applications Schedule Q 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: Latchford Community Expans	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	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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 I	II – Description of and Sup	port for Project								
3.1	Provide a general overvi	ew of the project, which	is to include the							
Redacted										
			ities; existing population							
	of each community by residential, commercial/institutional and industrial									
		sectors; routing; length of pipeline; and nominal pipe size.								
	Enbridge Gas is proposing to	serve the Town of Latchford	d in Timiskaming District. The							
			forecasted 122 customers (107							
	residential, 13 commercial / i	nstitutional and 2 industrial).								
	The proposed tis is point will	he environtel.	of Latabfand along							
	The proposed tie-in point will									
			e. The proposed distribution nd 1,218 m of 4" polyethylene							
			via to Latchford to							
	include,									
	and othe		· · · · · · · · · · · · · · · · · · ·							
			uired to accommodate additional							
	loads for the system. A new	IC Energy station is require	d to be installed.							
	The approximate length and	size of the distribution pipeli	and required:							
			les required.							
	Pipe Type	Diameter (NPS)	Length (m)							
	Polyethylene	2	15,357							
			· · · · · · · · · · · · · · · · · · ·							
	The approximate length and	size of the supply laterals re	quired:							
	Pipe Type	Diameter (NPS)	Length (m)							
	Polyethylene	4	1,218							
	Please refer to Schedule G	1 for Project Map.								
3.2	Provide the annual and c									
	attachments over the ten									
	commercial/institutional		-							
	Indicate for each custom		vice to be provided							
	would be firm or interrup	tible.								
	Please refer to Schedule C	2, Table 3.2.								

3.3	<ul> <li>Provide the annual and cumulative forecast of volumes (in m<sup>3</sup>) over the ten- year rate stability period by residential, commercial/institutional and industrial sectors for each community.</li> <li>For the residential segment, the default value for the average consumption level is 2,200 m<sup>3</sup> 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.</li> </ul>
	Please refer to Schedule Q2, 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 Q3, 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 Q4 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 Q5.

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 in place with the Town of Latchford nor does it hold a Certificate of Public Convenience and Necessity for the Town of Latchford. Enbridge Gas does have franchise agreements and Certificates of Public Convenience and Necessity for municipalities adjacent to the Town of Latchford including the Town of Cobalt, the Municipality of Temagami and the City of Temiskaming Shores.
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 Q2, Table 4.2.

Con	plete the tables below:				
Rev	enue Requirement				
	Description	Year 1	Year 2	Year 10	Total
	Revenue Requirement				
	Description	Year 10	1		
	Closing Rate Base				
ave	ere applicable, the inflat rage GDP IPI FDD. For in the OEB-prescribed inte (IP).	nterest dur	ing construc	tion, the pro	oponent i

Part V	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$6,970,298
	Please refer to Schedule Q2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$57,134
	Please refer to Schedule Q2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$14.53
	Please refer to Schedule Q2, Table 5.3.

	-
Part VI – Distributio	n 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 Q2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part V	/II – Profitability Index / Benefit to Cost Ratio
7.1	<ul> <li>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.</li> <li>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).</li> </ul>
	Please refer to Schedule Q2, 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 Q2, 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).
	<ul> <li>Leave to Construct</li> <li>Franchise Agreement</li> <li>Certificate of Public Convenience and Necessity</li> <li>System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)</li> </ul>
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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule Q4.

### Schedule Q1 Enbridge Gas Community Expansion Project Proposal

EB-2019-0255 Schedule Q1 Redacted

## Latchford



Schedule Q2 Enbridge Gas Community Expansion Project Proposal

#### Community Expansion Latchford

InService Date: Nov-01-2023

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

2 - Gustom	er Attachments Over The Rate Stability Period													
	Customer Type	<u>Firm / IT</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	Firm		34	25	17	8	8	3	3	3	3	3	107
	Commercial	Firm		-	9	2	1	1	-	-	-	-	-	13
	Institutional	Firm		-	-	-	-	-	-	-	-	-	-	-
	Agricultural	Firm		-	-	-	-	-	-	-	-	-	-	-
	Industrial	Firm		-	2	-	-	-	-	-	-	-	-	2
	Total Customers			<u>34</u>	<u>36</u>	<u>19</u>	<u>9</u>	<u>9</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>122</u>
	Cumulative Customers			34	70	89	98	107	110	113	116	119	122	

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

Customer Type	Project Year	1	<u>2</u>	
Residential		37,400	102,300	1
Commercial		-	18,000	
Institutional		-	-	
Agricultural		-	-	
Industrial		-	100,000	2
Total Volumes		<u>37,400</u>	<u>220,300</u>	5

						Cumulative	Volumes - m	3			
Customer Type	Project Year	1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>Z</u>	<u>8</u>	<u>9</u>	<u>10</u>
Residential		37,400	139,700	288,200	464,200	657,800	863,500	1,075,800	1,294,700	1,520,200	1,752,300
Commercial		-	18,000	57,600	101,900	148,400	196,000	243,600	291,200	338,800	386,400
Institutional		-	-	-	-	-	-	-	-	-	-
Agricultural		-	-	-	-	-	-	-	-	-	-
Industrial		-	100,000	300,000	500,000	700,000	900,000	1,100,000	1,300,000	1,500,000	1,700,000
Total Volumes	_	<u>37,400</u>	<u>257,700</u>	<u>645,800</u>	<u>1,066,100</u>	<u>1,506,200</u>	<u>1,959,500</u>	<u>2,419,400</u>	<u>2,885,900</u>	<u>3,359,000</u>	<u>3,838,700</u>

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

Total Capital Costs		<u>Year 10</u>										
Table 4.3 - Revenue Requirement Over The Rate Stability Period												
Revenue Requirement	Project Year	<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>
Closing Rate Base (net of proposed Section 36.2 funding)		<u>Year 10</u>										

### EB-2019-0255 Schedule Q2 Redacted

		Annual Vo	lumes - m3					
<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>Z</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
148,500	176,000	193,600	205,700	212,300	218,900	225,500	232,100	1,752,300
39,600	44,300	46,500	47,600	47,600	47,600	47,600	47,600	386,400
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,700,000
<u>388,100</u>	<u>420,300</u>	<u>440,100</u>	<u>453,300</u>	<u>459,900</u>	<u>466,500</u>	<u>473,100</u>	<u>479,700</u>	<u>3,838,700</u>

#### Community Expansion Latchford

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding	
Section 36.2 Funding Needed to Support the Project	<u>\$ 6,970,298</u>
Table 5.2 - Section 36.2 Funding Amount Per Customer Served	
Section 36.2 Funding Amount Per Customer Served	<u>Year 10</u> <u>\$</u> 57,134
Table 5.3 - Section 36.2 Funding Amount Per Volume (m3)	
Section 36.2 Funding Amount Per Year 10 Volume (m3)	<u>Year 10</u> <u>\$</u> 14.53
Table 6.1 - Distribution Charge	
Distribution Revenue SES Revenue Total Distribution Charge	Project Year         1         2           \$ 7,877         31,974           8,602         50,669           \$ 16,479         82,643
Table 7.1 - Profitability Index (PI) Inclusive of Section 36.2 Funding	
<u>Cash Inflow</u> Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A)	<u>Net Present Value</u>
Expenses: O&M Expense Municipal Tax Income Tax Total Expenses (B)	
Total Cash Inflow ( $C = A + B$ )	
<u>Cash Outflow</u> Gross Capital Proposed Section 36.2 Funding Change in Working Capital Total Cash Outflow (D)	
Gross Capital Proposed Section 36.2 Funding Change in Working Capital	<u>1.00</u>

EB-2019-0255 Schedule Q2 Redacted

<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>
52,721	59,331	63,501	66,281	67,671	69,061	70,451	71,841	\$ 560,710
89,263	96,669	101,223	104,259	105,777	107,295	108,813	110,331	882,901
<u>141,984</u>	<u>156,000</u>	<u>164,724</u>	<u>170,540</u>	<u>173,448</u>	<u>176,356</u>	<u>179,264</u>	<u>182,172</u>	<u>\$ 1,443,611</u>

#### Community Expansion Latchford InService Date: Nov-01-2023

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> 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 Q2 Redacted

### Schedule Q3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Latchford	Total Forecasted Customers	122		Penetration Rate	65%						Schedule Q3
Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	Estimated Annual Energy Costs (existing fuel)	Estimated Annual Energy Costs (natural gas)		Estimated Annual Savings	GHG per customer	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community - Existing	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil Electricity F/A Electricity Baseboard Propane Wood Other	26 11 15 54 11 6	21% 9% 12% 44% 9% 5%	\$ 5,000 \$ 12,000 \$ 600 \$ 3,500	\$ 1,998 \$ 1,998 \$ 1,611	\$       1,460 \$      1,460	\$ 538 \$ 538 \$ 152 \$ -	\$	0.5 0.5 5.1 N/A	3.6 3.6 -1.0	5 6 5 8 0 274	39 53 (53)
Total	122	100%	\$ 31,100	\$ 8,395	\$ 5,838	\$ 2,557	\$ 55,966	12.7	3.8	456	(23)

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

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

		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	0.663				
Heating oil	L	2397	Heating oil	\$/L	1.163				
Electricity	kWh	17778	Electricity	\$/kWh	0.112				
Propane	L	3309	Propane	\$/L	0.487				

Notes:

Gas prices correspond to EGI (Union Gas North West) April 2020 rates, including 23 cents per m3 SES charge

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

Electricity prices correspond to Hydro One (Med Density - R1) distribution rates implemented January 1, 2020 and includes the new Ontario Electricity Rebate (OER) The calculated annual savings vs electricity do not reflect the COVID-19 Emergency pricing which is effective for 45 days

Propane prices are currently unavailable for the Union North Rate zones.

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

#### EB-2019-0255 Schodulo O2

### Schedule Q4 Enbridge Gas Community Expansion Project Proposal

# Latchford Community Expansion Project Pipeline Construction Schedule

Task Nama						202	22											20	)23											20	24					
Task Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	/ Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Au	g Sep	00	t Nov	/ Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov D	)ec
Environmental Assessments																																				
Permits & Approvals																																				
Leave to Construct Application and Approval																																				
Pre-Construction, Construction and Testing																																				
In Service																																				

EB-2019-0255 Schedule Q4 Schedule Q5 Enbridge Gas Community Expansion Project Proposal



The Corporation of The Town of Latchford 10 Main St., Hwy 11, P.O. Box 10 Latchford, Ontario P0J 1N0 TEL (705) 676-2416 FAX (705) 676-2121

February 28, 2020

Attention: Luke Skaarup, Director, Northern Region Operations Enbridge Gas Inc

Dear Mr Skaarup,

Re: Expression of Support for Natural Gas Expansion to the Latchford Natural Gas 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 is 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 Town of Latchford, I would like to formally express our interest to have the **Latchford Natural Gas 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 The Town of Latchford, as applicable, demonstrated through a written expression of support which we are prepared to undertake by waiving municipal taxes on your infrastructure for a period of 20 years as was committed to in June of 2017. 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 through the development of our business/industrial Park and lower monthly costs for our residents.

Sincerely,

George L. Lefebvre;

Mayor Town of Latchford glefebvre@latchford.ca 705-676-2416 705-648-8298

cc: Wendy Landry Penny Stefura Schedule R Enbridge Gas Community Expansion Project Proposal

Mansfield

#### 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: Mansfield Community Expans	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	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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 I	II – Description of and Sup	port for Project									
3.1	Provide a general overvie		ich is to include the								
Redacted	ronowing. communities to be connected, including whether the project										
	would serve any on-reserve Indigenous communities; existing population										
	of each community by residential, commercial/institutional and industrial										
	sectors; routing; length of pipeline; and nominal pipe size.										
	Enbridge Gas is proposing to serve the community of Mansfield within the Township of										
	Mulmur in Dufferin County. The proposed facilities will provide access to natural gas to a forecasted 243 customers (237 residential and 6 commercial / institutional).										
	The nearest existing gas infra		in Adjala-								
	Tosorontio. A station is propo		ting high-pressure system in supply line and distribution to								
	Mansfield. The proposed sup	ply line is approximately	y 8 km and runs west along								
	system within Mansfield inclu		bution system. The distribution n of polyethylene pipe.								
	The approximate length and s	size of the supply lateral	s required:								
	Pipe Type	Diameter (NPS)	Length (m)								
	Polyethylene	4	8,000								
	The approximate length and s	size of the distribution pi	pelines required:								
	Pipe Type	Diameter (NPS)	Length (m)								
	Polyethylene	2	11,770								
	Polyethylene	4	4,000								
	Please refer to Schedule R	1 for Project Map.									
3.2			f the number of customer								
	attachments over the ten		•								
	commercial/institutional		•								
	Indicate for each custom		service to be provided								
	would be firm or interrup	tible.									
	Please refer to Schedule R	2, Table 3.2.									
3.3	Provide the annual and cumulative forecast of volumes (in m <sup>3</sup> ) 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 m <sup>3</sup> 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 R2, 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 R3, 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 R4 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 R5.										

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 R6 for Enbridge's CPCN for the Township of Mulmur (EBC 48) that covers the entire area of the proposed project.
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 R2, 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:	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 R2,	Table 4.3.									

Part V	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$9,047,094
	Please refer to Schedule R2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$37,231
	Please refer to Schedule R2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$15.76
	Please refer to Schedule R2, Table 5.3.

	-
Part VI – Distributio	n 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 R2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part \	/II – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.
	The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a "portfolio" of projects).
	Please refer to Schedule R2, 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 R2, Table 7.2.

Part V	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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule R4.

# Schedule R1 Enbridge Gas Community Expansion Project Proposal

EB-2019-0255 Schedule R1 Redacted



# Schedule R2 Enbridge Gas Community Expansion Project Proposal

# Community Expansion Mansfield

InService Date: Nov-01-2023

# Table 3.2 - Customer Attachments Over The Rate Stability Period

Customer Type	Firm / IT	Project Year	<u>1</u>	2	<u>3</u>	<u>4</u>	
Residential	Firm		64	57	21	15	
Commercial	Firm		-	4	-	-	
Institutional	Firm		-	-	-	-	
Agricultural	Firm		-	2	-	-	
Industrial	Firm		-	-	-	-	
Total Customers			<u>64</u>	<u>63</u>	<u>21</u>	<u>15</u>	
Cumulative Customers			64	127	148	163	

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

		Annual 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		76,800	222,000	315,600	358,800	391,200	423,600	457,200	490,800	524,400	554,400	3,814,800
Commercial		-	9,900	19,800	19,800	19,800	19,800	19,800	19,800	19,800	19,800	168,300
Institutional		-	-	-	-	-	-	-	-	-	-	-
Agricultural		-	-	-	-	-	-	-	-	-	-	-
Industrial		-	-	-	-	-	-	-	-	-	-	-
Total Volumes		<u>76,800</u>	<u>231,900</u>	<u>335,400</u>	<u>378,600</u>	<u>411,000</u>	<u>443,400</u>	477,000	<u>510,600</u>	<u>544,200</u>	<u>574,200</u>	<u>3,983,100</u>

		Cumulative 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>
Residential		76,800	298,800	614,400	973,200	1,364,400	1,788,000	2,245,200	2,736,000	3,260,400	3,814,800
Commercial		-	9,900	29,700	49,500	69,300	89,100	108,900	128,700	148,500	168,300
Institutional		-	-	-	-	-	-	-	-	-	-
Agricultural		-	-	-	-	-	-	-	-	-	-
Industrial		-	-	-	-	-	-	-	-	-	-
Total Volumes		<u>76,800</u>	<u>308,700</u>	<u>644,100</u>	1,022,700	<u>1,433,700</u>	<u>1,877,100</u>	<u>2,354,100</u>	<u>2,864,700</u>	<u>3,408,900</u>	<u>3,983,100</u>

#### 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 R2 Redacted

<mark>5</mark> 12	<mark>6</mark> 15	<mark>7</mark> 13	<mark>8</mark> 15	<mark>9</mark> 13	<u>10</u> 12	<u>Total</u> 237
-	-	-	-	-	-	4
-	-	-	-	-	-	-
-	-	-	-	-	-	2
-	-	-	-	-	-	-
<u>12</u>	<u>15</u>	<u>13</u>	<u>15</u>	<u>13</u>	<u>12</u>	<u>243</u>
175	190	203	218	231	243	

## Community Expansion Mansfield

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding							
Section 36.2 Funding Needed to Support the Project	\$ 9,047,094						
Table 5.2 - Section 36.2 Funding Amount Per Customer Served							
Section 36.2 Funding Amount Per Customer Served	<u>Year 10</u> <u>\$ 37,231</u>						
Table 5.3 - Section 36.2 Funding Amount Per Volume (m3)							
Section 36.2 Funding Amount Per Volume (m3)	<u>Year 10</u> <u>\$15.76</u>						
Table 6.1 - Distribution Charge							
Distribution Revenue SES Revenue Total Distribution Charge	Project Year         1           \$ 13,457           17,664           \$ 31,121	2         3           42,386         62,274           53,889         78,246           96,275         140,520	4         5           69,844         75,521           88,182         95,634           158,026         171,155	<mark>6</mark> 81,198 87, 103,086 110, <u>184,284 197,</u>	314 118,542	98,861 126,270 225,131	10Total104,118\$ 727,720133,170925,497237,288\$ 1,653,217
Table 7.1 - Profitability Index (PI) Inclusive of Section 36.2 Funding							
	Net Present Value						
Cash Inflow							
Revenue:							
Distribution Revenue							
System Expansion Surcharge (SES) Revenue							
Total Revenue (A)							
Expenses:							
O&M Expense							
Municipal Tax							
Income Tax							
Total Expenses (B)							
Total Cash Inflow ( $C = A + B$ )							
Cash Outflow							
Gross Capital							
Proposed Section 36.2 Funding							
Change in Working Capital							
Total Cook Outflow (D)							

Total Cash Outflow (D)

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

<u>1.00</u>

EB-2019-0255 Schedule R2 Redacted

# Community Expansion Mansfield

InService Date: Nov-01-2023

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> 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 R2 Redacted

# Schedule R3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Mansfield	Total Forecasted Customers	243		Penetration Rate	78%						Schedule R3
Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	Estimated Annual Energy Costs (existing fuel)	Estimated Annual Energy Costs (natural gas)	Estimated Annual Savings per customer	Estimated Annual Savings	Estimated Annual GHG per customer Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	49	20%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 76,290	7.2	-2.7	349	(130)
Electricity F/A	39	16%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 27,467	0.6	3.9	23	152
Electricity Baseboard	39	16%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 27,467	0.6	3.9	23	152
Propane	90	37%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 25,474	5.6	-1.1	502	(98)
Wood	27	11%	\$ 3,500	N/A	N/A	\$-	N/A	N/A	N/A	N/A	N/A
Other	0	0%	\$ 5,000	N/A	N/A	\$-	N/A				
Total	243	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 156,697	13.9	4.1	896	76

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.

		Err	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)

	Ra	ate 1 (Community Expansio	n, Non-FN)		
	Consumption Equivale	ent		Price per Uni	t
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 m<sup>3</sup> 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.

# EB-2019-0255

# Schedule R4 Enbridge Gas Community Expansion Project Proposal

# Mansfield Community Expansion Project Pipeline Construction Schedule

Task Nama						20	22											2	2023												20	24					
Task Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	t Nov	v Dec	Jan	Feb	o Ma	r Ap	r Ma	y Ju	n Ju	ul A	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																																					

EB-2019-0255 Schedule R4

# Schedule R5 Enbridge Gas Community Expansion Project Proposal



February 2020

Dear REGIONAL DIRECTOR,

#### Re: Expression of Support for Natural Gas Expansion to The Township of Mulmur

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 Mulmur, I would like to formally express our interest to have The Township of Mulmur 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,

Tracey Atkinson CAO/Planner Township of Mulmur tatkinson@mulmur.ca 705-466-3341 x222

Jahet Horner Mayor Township of Mulmur jhorner@mulmur.ca



Schedule R6 Enbridge Gas Community Expansion Project Proposal

EB-2019-0255 Schedule R6

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

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

BEFORE:

. 1

A.R. Crozier, Chairman } Friday, the 10th A.B. Jackson, Vice Chairman day of June, 1966.

#### EERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

UPON the Application of The Consumers' Gas Company (hereinafter called the Applicant) for a certificate pursuant to the provisions of The Municipal Franchises Act, R.S.O. 1960, Chapter 255 and amendments thereto and upon the hearing of such Application by the Beard at the City of Toronto, on the 10th day of June, 1966, after due notice had been given as directed by the Board, in the presence of Counsel for the Applicant no one else appearing, upon consideration of the evidence and exhibits produced at the hearing and upon hearing what was alleged by Counsel for the Applicant

1. THIS BOARD DOTH ORDER that a Certificate of Public Convenience and Necessity be and the same is hereby granted to The Consumers' Gas Company for the supply of natural gas to the inhabitants of the Township of Mulmur and for the construction of the works necessary therefor.

2. This Board fixes the costs of this Application at \$25.00 payable forthwith by the Applicant.

DATED AT TORONTO this 13th day of July, A.D. 1966.

THE ONTARIO ENERGY BOARD acho Board Secretary, Pro Tempore

Schedule S Enbridge Gas Community Expansion Project Proposal

Mattawa

#### 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: Town of Mattawa 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	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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 I	II – Description of and Sup	port for Project	
3.1 Redacted	Provide a general overvie following: communities to would serve any on-reser of each community by res	ew of the project, which is o be connected, including rve Indigenous communiti sidential, commercial/inst of pipeline; and nominal pi	whether the project es; existing population itutional and industrial
	proposed pipeline system v customers. The proposed t connect to an existing 2" st The proposed distribution s through to the intersection	ccommodate additional load	forecasted 22 residential n pipeline system will  and be installed There will be no
	The approximate length an	d size of the distribution pip	eline system required:
	Pipe Type Polyethylene	Diameter (NPS) 2	Length (m) 1,900
	Please refer to Schedule S	1 for Project Map.	
3.2	attachments over the ten commercial/institutional	umulative forecast of the -year rate stability period and industrial sectors for er type whether the servic tible.	by residential, each community.
	Please refer to Schedule S	2, Table 3.2.	
3.3	Provide the annual and cu year rate stability period industrial sectors for eac	umulative forecast of volu od by residential, comm h community.	mes (in m <sup>3</sup> ) over the ten- hercial/institutional and
	level is 2,200 m <sup>3</sup> per year. regarding the annual con community may use that	ent, the default value for th A proponent that has mo sumption for residential c value, in which case it mu e accurate than the defaul	re accurate information sustomers in a given ust explain how it has
	Please refer to Schedule S	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 S3, 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 S4 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 S5.
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 S6 for Enbridge's CPCN for the Town of Mattawa (EBC 125) that 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 S2, Table 4.2.
4.3	<ul> <li>Provide the total annual forecast revenue requirement of the project over the ten-year rate stability period (using fully allocated OM&amp;A costs) and rate base amount at the end of year ten.</li> <li>Complete the tables below:</li> <li>Revenue Requirement</li> </ul>
	Description Year 1 Year 2 Year 10 Total
	Revenue Requirement
	DescriptionYear 10Closing 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).

Part V	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project. \$1,034,567
	Please refer to Schedule S2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$47,026 Please refer to Schedule S2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$21.87
	Please refer to Schedule S2, 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 S2, 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 S2, 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 S2, Table 7.2.

Part V	/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
	<ul> <li>System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)</li> </ul>
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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule S4.

# Schedule S1 Enbridge Gas Community Expansion Project Proposal

Mattawa

# Town of Mattawa

EB-2019-0255 Schedule S1 Redacted





# Schedule S2 Enbridge Gas Community Expansion Project Proposal

Mattawa

#### Community Expansion Town of Mattawa InService Date: Nov-01-2022

Table 3.2 - Customer Attachments Over The Rate Stability Period				
Customer Type	Firm / IT	Project Year	<u>1</u>	<u>2</u>
Residential	Firm		7	4
Commercial	Firm		-	-
Institutional	Firm		-	-
Agricultural	Firm		-	-
Industrial	Firm		-	-
Total Customers			7	4
Cumulative Customers			7	11

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

						Annual Vo	lumes - 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		7,700	19,800	26,400	30,800	35,200	38,500	40,700	42,900	45,100	47,300	334,400
Commercial		-	-	-	-	-	-	-	-	-	-	-
Institutional		-	-	-	-	-	-	-	-	-	-	-
Agricultural		-	-	-	-	-	-	-	-	-	-	-
Industrial		-	-	-	-	-	-	-	-	-	-	-
Total Volumes	_	<u>7,700</u>	<u>19,800</u>	<u>26,400</u>	<u>30,800</u>	<u>35,200</u>	<u>38,500</u>	<u>40,700</u>	<u>42,900</u>	<u>45,100</u>	<u>47,300</u>	<u>334,400</u>

						Cumulative	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>	
Residential		7,700	27,500	53,900	84,700	119,900	158,400	199,100	242,000	287,100	334,400	
Commercial		-	-	-	-	-	-	-	-	-	-	
Institutional		-	-	-	-	-	-	-	-	-	-	
Agricultural		-	-	-	-	-	-	-	-	-	-	
Industrial		-	-	-	-	-	-	-	-	-	-	-
Total Volumes		<u>7,700</u>	<u>27,500</u>	<u>53,900</u>	<u>84,700</u>	<u>119,900</u>	<u>158,400</u>	<u>199,100</u>	<u>242,000</u>	<u>287,100</u>	<u>334,400</u>	

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

Total Capital Costs		<u>Year 10</u>										
Table 4.3 - Revenue Requirement Over The Rate Stability Period												
Revenue Requirement	Project Year	<u>1</u>	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	Z	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
Closing Rate Base (net of proposed Section 36.2 funding)		<u>Year 10</u>										

## EB-2019-0255 Schedule S2 Redacted

<b>3</b> 2	<mark>4</mark> 2	<mark>5</mark> 2	<u>6</u> 1	<mark>7</mark> 1	<u>8</u> 1	<mark>9</mark> 1	<u>10</u> 1	<u>Total</u> 22
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
2	2	2	1	1	1	1	1	22
13	15	17	18	19	20	21	22	

#### Community Expansion Town of Mattawa InService Date: Nov-01-2022

able 5.1 - Total An	nount of Section 36.2 Funding			
	Section 36.2 Funding Needed to Support the Project		<u>\$ 1,034,567</u>	
able 5.2 - Section	36.2 Funding Amount Per Customer Served			
	0			
			Year 10	
	Section 36.2 Funding Amount Per Customer Served		\$ 47,026	
ole 5.3 - Section	36.2 Funding Amount Per Volume (m3)			
			Year 10	
	Section 36.2 Funding Amount Per Year 10 Volume (m3)		<u>\$ 21.87</u>	
le 6.1 - Distribu	tion Chargo			
	tion charge			
		Project Year	1	<u>2</u>
	Distribution Revenue		\$ 1,622	4,170
	SES Revenue		1,771	4,554
	Total Distribution Charge	_	<u>1,771</u> <u>\$3,393</u>	4,554 <u>8,724</u>
le 7.1 - Profitab		Net Pre	<u>\$3,393</u>	
e 7.1 - Profitab	Total Distribution Charge ility Index (PI) Inclusive of Section 36.2 Funding	_Net Pre:		
ole 7.1 - Profitab	Total Distribution Charge ility Index (PI) Inclusive of Section 36.2 Funding Cash Inflow	<u>Net Pre</u>	<u>\$3,393</u>	
le 7.1 - Profitab	Total Distribution Charge ility Index (PI) Inclusive of Section 36.2 Funding Cash Inflow Revenue:	<u>Net Pre</u>	<u>\$3,393</u>	
le 7.1 - Profitab	Total Distribution Charge ility Index (PI) Inclusive of Section 36.2 Funding Cash Inflow Revenue: Distribution Revenue	<u>Net Pre</u>	<u>\$3,393</u>	
e 7.1 - Profitab	Total Distribution Charge ility Index (PI) Inclusive of Section 36.2 Funding Cash Inflow Revenue:	<u>Net Pre</u>	<u>\$3,393</u>	
e 7.1 - Profitab	Total Distribution Charge ility Index (PI) Inclusive of Section 36.2 Funding Cash Inflow Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A)	<u>Net Pre</u>	<u>\$3,393</u>	
e 7.1 - Profitab	Total Distribution Charge ility Index (PI) Inclusive of Section 36.2 Funding Cash Inflow Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A) Expenses:	<u>Net Pre</u>	<u>\$3,393</u>	
le 7.1 - Profitab	Total Distribution Charge ility 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	<u>Net Pre</u>	<u>\$3,393</u>	
le 7.1 - Profitab	Total Distribution Charge ility 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	<u>Net Pre</u>	<u>\$3,393</u>	
e 7.1 - Profitab	Total Distribution Charge ility 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	<u>Net Pre</u>	<u>\$3,393</u>	
e 7.1 - Profitab	Total Distribution Charge ility 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	<u>Net Pre</u>	<u>\$3,393</u>	
e 7.1 - Profitab	Total Distribution Charge ility 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	<u>Net Pre</u>	<u>\$3,393</u>	
le 7.1 - Profitab	Total Distribution Charge ility 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)	<u>Net Pre</u>	<u>\$3,393</u>	
le 7.1 - Profitab	Total Distribution Charge ility 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)	<u>Net Pre</u>	<u>\$3,393</u>	
ole 7.1 - Profitab	Total Distribution Charge         ility 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 Cash Inflow (C = A + B)         Cash Outflow         Gross Capital	Net Pres	<u>\$3,393</u>	
ble 7.1 - Profitab	Total Distribution Charge ility 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	Net Pre	<u>\$3,393</u>	
ble 7.1 - Profitab	Total Distribution Charge         ility 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 Cash Inflow (C = A + B)         Cash Outflow         Gross Capital	Net Pre	<u>\$3,393</u>	
ble 7.1 - Profitab	Total Distribution Charge <b>ility Index (PI) Inclusive of Section 36.2 Funding</b> Cash Inflow         Revenue:         Distribution Revenue         System Expansion Surcharge (SES) Revenue         Total Revenue (A)         Expenses:         O&M Expense         Municipal Tax         Income Tax         Total Cash Inflow (C = A + B)         Cash Outflow         Gross Capital         Proposed Section 36.2 Funding         Change in Working Capital         Total Cash Outflow (D)	Net Pres	<u>\$3,393</u> sent Value	
le 7.1 - Profitab	Total Distribution Charge ility 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	Net Pre	<u>\$3,393</u>	

EB-2019-0255 Schedule S2 Redacted

<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>
5,560	6,487	7,413	8,108	8,572	9,035	9,498	9,961 \$	70,425
6,072	7,084	8,096	8,855	9,361	9,867	10,373	10,879	76,912
<u>11,632</u>	<u>13,571</u>	<u>15,509</u>	<u>16,963</u>	<u>17,933</u>	<u>18,902</u>	<u>19,871</u>	<u>20,840</u>	147,337

#### Community Expansion Town of Mattawa InService Date: Nov-01-2022

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> 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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# Schedule S3 Enbridge Gas Community Expansion Project Proposal

Mattawa
Section 3.4 Mattawa	Total Forecasted Customers	22		Penetration Rate	65%						Schedule S3
Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	Estimated Annual Energy Costs (existing fuel)	Estimated Annual Energy Costs (natural gas)		Estimated Annual Savings		Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community - Existing	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
	F	21%	\$ 5,000	\$ 2,787	Ś 1.460	ć 1.220	¢ 6.124	6.6	-2.4	30	
Electricity F/A	5	9%									(11)
Electricity Baseboard	2 3	12%						0.5			9
Propane	10	44%				-					(10)
Wood	2	9%		, _, N/A	N/A		N/A	N/A	N/A		N/A
Other	1	5%		N/A	N/A		N/A				
Total	22	100%	\$ 31,100	\$ 8,395	\$ 5,838	\$ 2,557	\$ 10,092	12.7	3.8	82	(4)

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

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

Emission Factor Sources:

Natural gas, heating oil and propane CO2 factors: Guideline for Quantification, Reporting and Verification of GHG Emissions - Ontario Ministry of Environment, Conservation and Parks Natural gas, heating oil and propane CH4 and N2O factors: Canada's Greenhouse Gas Quantification Requirements, December 2019 - Environment and Climate Change Canada Electricity factors: 2020 National Inventory Report (Part 3) - Environment and Climate Change Canada (using 2018 consumption intensity for Ontario) Estimated Annual GHG (tCO2e) = Emission Factors x Consumption Equivalent

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

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

Notes:

Gas prices correspond to EGI (Union Gas North West) April 2020 rates, including 23 cents per m3 SES charge

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

Electricity prices correspond to Hydro One (Med Density - R1) distribution rates implemented January 1, 2020 and includes the new Ontario Electricity Rebate (OER) The calculated annual savings vs electricity do not reflect the COVID-19 Emergency pricing which is effective for 45 days

Propane prices are currently unavailable for the Union North Rate zones.

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

### EB-2019-0255 Schedule S3

# Schedule S4 Enbridge Gas Community Expansion Project Proposal

Mattawa

# Town of Mattawa Community Expansion Project Pipeline Construction Schedule

Task Nama		2021							2022									2023																			
Task Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	/ Dec	Jan	Feb	Ma	Ар	r Ma	y Ju	n J	ul /	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 S5 Enbridge Gas Community Expansion Project Proposal

Mattawa



Corporation of the Town of Mattawa

EB-2019-0255 Schedule S5

Redacted

info@mattawa.ca

March 06, 2020

Dear Luke Skaarup

Director, Northern Region Operations

Enbridge Gas Inc.

Re: Expression of Support for Natural Gas Expansion to Mattawa

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

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

Based on the draft Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may be required to include support for the proposed project from Band Council(s) and/or local government, as applicable, demonstrated through 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,

Raymond Belanger CAO/Treasurer

# Schedule S6 Enbridge Gas Community Expansion Project Proposal

Mattawa



Ontario

Energy Board EB-2019-0255 Schedule S6

E.B.C. 125

IN THE MATTER OF the Municipal Franchises Act, R.S.O. 1980, Chapter 309;

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 Town of Mattawa in the District of Nipissing.

BEFORE: I. C. MacNabb ) Vice Chairman and ) Presiding Member ) S. J. Wychowanec, Q.C. ) June 15, 1983 Vice Chairman ) J. C. Butler ) Member )

### CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

UPON the application of Northern and Central Gas Corporation Limited ("Northern"), dated April 4, 1983, for a Certificate of Public Convenience and Necessity to construct works and to supply gas in the Town of Mattawa;

AND UPON the application having been heard at Toronto on June 15, 1983, in the presence of counsel for Northern and for the Board, no one else appearing, and the Board having delivered oral Reasons for Decision on June 21, 1983: - 2 -

### THE BOARD ORDERS THAT:

1. I.

 A Certificate of Public Convenience and Necessity is hereby granted to Northern to construct works to supply and to supply gas in the Town of Mattawa.

 The Board's costs shall be paid by Northern as soon as these have been fixed.

ISSUED at Toronto this 5774 day of JULY, 1983.

ONTARIO ENERGY BOARD

er-e Cere - C ----

S.A.C. Thomas Board Secretary

# Schedule T 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: Maxville 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	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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 I	II – Description of and Sup	port for Project							
3.1 Redacted	Provide a general overvie following: communities t would serve any on-rese	ew of the project, wh o be connected, incluring rve Indigenous commissidential, commercial	uding whether the project nunities; existing population Il/institutional and industrial						
	Enbridge Gas is proposing to North Glengarry, southeast o		Maxville located in the Township of						
	The proposed facilities will pr (275 residential, 49 commerc		gas to a forecasted 325 customers dustrial).						
	The project proposes to tie-in to existing NPS 6 steel XHP system at the intersection of and with a proposed XHP to HPPE station. From the proposed station, the lateral feed runs west for approximately 16 km along								
	the proposed station, the late and	ral feed runs west for ap to the pr	oposed distribution system within						
	Maxville.		. ,						
	The approximate length and	size of the supply lateral	s required:						
	Ріре Туре	Diameter (NPS)	Length (m)						
	Polyethylene	6	16,200						
	The approximate length and	size of the distribution pi	peline required:						
	Pipe Type	Diameter (NPS)	Length (m)						
	Polyethylene	2	8,000						
	Polyethylene	4	5,000						
	Please refer to Schedule T	1 for Project Map.							
3.2	Provide the annual and c attachments over the ten commercial/institutional Indicate for each custom would be firm or interrup	-year rate stability pe and industrial sector er type whether the s	s for each community.						
	Please refer to Schedule T	2, Table 3.2.							

3.3	<ul> <li>Provide the annual and cumulative forecast of volumes (in m<sup>3</sup>) over the ten- year rate stability period by residential, commercial/institutional and industrial sectors for each community.</li> <li>For the residential segment, the default value for the average consumption level is 2,200 m<sup>3</sup> per year. A proponent that has more accurate information</li> </ul>
	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 T2, 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 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 T3, 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 T4 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 T5.

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 T6 for Enbridge's CPCN for the Township of North Glengarry (EB-2006-0333) that covers the entire area of the proposed project.
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 T2, Table 4.2.

4.3	Provide the total annual for the ten-year rate stability per rate base amount at the end	eriod (using	, fully alloca		
	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 inflat average GDP IPI FDD. For in use the OEB-prescribed inte (CWIP).	nterest duri	ng construe	ction, the pr	oponent is to
	Please refer to Schedule T2,	Table 4.3.			

Part V	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$12,526,564
	Please refer to Schedule T2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$38,543
	Please refer to Schedule T2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$11.66
	Please refer to Schedule T2, Table 5.3.

	-
Part VI – Distributio	n 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 T2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part \	/II – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.
	The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a "portfolio" of projects).
	Please refer to Schedule T2, 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 T2, Table 7.2.

Part V	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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule T4.

# Schedule T1 Enbridge Gas Community Expansion Project Proposal

### EB-2019-0255 Schedule T1 Redacted



# Schedule T2 Enbridge Gas Community Expansion Project Proposal

# Community Expansion Maxville

InService Date: Nov-01-2023

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

stomer Attachments over the Nate Otability	i chidu												
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		75	66	26	18	13	17	14	17	15	14	275
Commercial	Firm		-	24	9	4	3	1	1	1	1	1	45
Institutional	Firm		-	1	-	-	-	-	-	-	-	-	1
Agricultural	Firm		-	3	-	-	-	-	-	-	-	-	3
Industrial	Firm		-	1	-	-	-	-	-	-	-	-	1
Total Customers			<u>75</u>	<u>95</u>	<u>35</u>	<u>22</u>	<u>16</u>	<u>18</u>	<u>15</u>	<u>18</u>	<u>16</u>	<u>15</u>	<u>325</u>
Cumulative Customers			75	170	205	227	243	261	276	294	310	325	

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

						Annu	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		88,739	255,836	364,554	416,093	452,872	488,872	526,072	563,272	601,672	636,472	4,394,453
Commercial		-	46,700	114,400	145,300	160,100	166,200	168,600	171,000	173,400	175,800	1,321,500
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		-	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
Total Volumes		<u>88,739</u>	<u>433,736</u>	<u>741,354</u>	<u>823,793</u>	<u>875,372</u>	<u>917,472</u>	<u>957,072</u>	<u>996,672</u>	<u>1,037,472</u>	<u>1,074,672</u>	<u>7,946,353</u>

						Cumul	ative Volume	es - m3			
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		88,739	344,575	709,129	1,125,221	1,578,093	2,066,965	2,593,037	3,156,309	3,757,981	4,394,453
Commercial		-	46,700	161,100	306,400	466,500	632,700	801,300	972,300	1,145,700	1,321,500
Institutional		-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000
Agricultural		-	56,200	168,600	281,000	393,400	505,800	618,200	730,600	843,000	955,400
Industrial		-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000
Total Volumes	_	<u>88,739</u>	<u>522,475</u>	<u>1,263,829</u>	<u>2,087,621</u>	<u>2,962,993</u>	<u>3,880,465</u>	<u>4,837,537</u>	<u>5,834,209</u>	<u>6,871,681</u>	7,946,353

### 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 T2 Redacted



# Community Expansion Maxville

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding         Section 36.2 Funding Needed to Support the Project		\$ 12,526,564									
Table 5.2 - Section 36.2 Funding Amount Per Customer Served											
Section 36.2 Funding Amount Per Customer Served		<u>Year 10</u> <u>\$38,543</u>									
Table 5.3 - Section 36.2 Funding Amount Per Volume (m3)											
Section 36.2 Funding Amount Per Volume (m3)		<mark>Year 10</mark> \$ 11.66									
Table 6.1 - Distribution Charge											
Distribution Revenue SES Revenue Total Distribution Charge	<u>Project Year</u>	15,683 20,410 36,093	2 66,952 99,759 <u>166,711</u>	3 113,341 170,511 <u>283,853</u>	4 130,335 189,472 <u>319,807</u>	5 140,926 201,336 <u>342,262</u>	6 149,428 211,019 <u>360,447</u>	7 156,998 220,127 <u>377,125</u>	<b>8</b> 164,568 229,235 <u>393,803</u>	9 172,349 238,619 <u>410,967</u>	10Total179,498\$ 1,290,079247,1751,827,661426,673\$ 3,117,740
Table 7.1 - Profitability Index (PI) Inclusive of Section 36.2 Funding	Not Droop	ant Volue									
Cook Inflow	Net Prese	ent value									
<u>Cash Inflow</u> 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 ( $C = A + B$ )	l										
Cash Outflow											
Gross Capital											
Proposed Section 36.2 Funding											
Change in Working Capital											
Total Cash Outflow (D)											

<u>1.00</u>

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

EB-2019-0255 Schedule T2 Redacted

### Community Expansion Maxville

InService Date: Nov-01-2023

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> 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 T2 Redacted

# Schedule T3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Maxville	Total Forecasted Customers	325		Penetration Rate	65%						Schedule T3
Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	Estimated Annual Energy Costs (existing fuel)	Estimated Annual Energy Costs (natural gas)	Estimated Annual Savings per customer	Estimated Annual Savings	Estimated Annual GHG per customer Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community - Existing	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	68	21%			\$ 1,481	\$ 1,570	\$ 107,135	7.2	-2.7	490	(183)
Electricity F/A	29	9%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 20,664	0.6	3.9	17	115
Electricity Baseboard	39	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 27,552	0.6	3.9	23	153
Propane	143	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 40,516	5.6	-1.1	799	(156)
Wood	29	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	16	5%	\$ 5,000	N/A	N/A	\$-	N/A				
Total	325	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 195,866	13.9	4.1	1,328	(71)

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

		En	nission Factors		
	CO2	CH4	N2O	CO2e	Units
Natural Gas	1863 g/m3	0.037 g/m3	0.035 g/m3	0.001874355	5 tonnes/m3
Heating Oil	2725 g/L	0.006 g/L	0.031 g/L	0.002734388	3 tonnes/L
Propane	1510 g/L	0.024 g/L	0.108 g/L	0.001542784	1 tonnes/L
Electricity	30 g/kWh	-	-	0.00003	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 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 m<sup>3</sup> 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.

# EB-2019-0255

# Schedule T4 Enbridge Gas Community Expansion Project Proposal

# Maxville Community Expansion Project Pipeline Construction Schedule

Task Nama					2022														20	23						2024												
Task Name	Jan	Feb	Mar	Apr	May	/ Jun	Ju	l Au	ıg Se	ep C	Oct N	Nov	Dec	Jan	Feb	Ma	r A	pr N	/lay	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																																						

EB-2019-0255 Schedule T4

# Schedule T5 Enbridge Gas Community Expansion Project Proposal



Corporation of the Township of North Glengarry Municipalité du canton de Glengarry nord 90 rue Main Street S. P.O. /C.P. 700 Alexandria ON KOC 1A0 Tel: (613) 525-1110 Fax: (613) 525-1649 www.northglengarry.ca

February 27, 2020.

Dear Ian Ross,

Re: Expression of Support for Natural Gas Expansion to the Township of North Glengarry.

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 North Glengarry, I would like to formally express our interest to have the Maxville Natural Gas Expansion 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,

Jamie MacDonald Mayor Township of North Glengarry jamiemacdonald@northglengarry.ca (613) 551-8691

# Schedule T6 Enbridge Gas Community Expansion Project Proposal

### EB-2006-0333

# **Certificate of Public Convenience and Necessity**

The Ontario Energy Board hereby grants

### Enbridge Gas Distribution Inc.

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

### Township of North Glengarry

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

DATED at Toronto, March 23, 2007

ONTARIO ENERGY BOARD

Original signed by

Neil McKay Manager - Facilities Schedule U Enbridge Gas Community Expansion Project Proposal

North Clarington

### 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: North Clarington 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	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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 I	Part III – Description of and Support for Project					
3.1	Provide a general overview of the project, which is to include the					
Redacted						
	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, reading, length of pipeline, and nonlinal pipe size.					
	Enbridge Gas is proposing to serve the communities of Haydon, Enniskillen, and Tyrone					
	within the North Clarington area of the Municipality of Clarington. The proposed facilities					
			customers (384 residential and			
	commercial / institutional).	0	Υ.			
	The project proposes to tie-in to an existing NPS 12 steel XHP system on the corner of					
	and with NPS 2 steel XHP to run for					
	approximately 800 m to the p	roposed XHP-HPPE sta	tion location at the corner of			
	and	From the proposed	d station, the proposed NPS 4			
	polyethylene pipeline runs	along	d station, the proposed NPS 4 to to the			
	proposed distribution system	within Enniskillen and H	aydon. The proposed distribut			
	pipeline would travel fro	m along	to	_		
	, and on	to serve the com	munity of Tyrone.			
	The approximate length and size of the supply laterals required:					
	Pipe Type	Diameter (NPS)	Length (m)			
	Steel	6	792			
	The approximate length and size of the distribution pipelines required:					
	Dine Trune					
	Pipe Type	Diameter (NPS)	Length (m)			
	Polyethylene	2 4	15,200			
	Polyethylene	4	9,584			
	Please refer to Schedule U	1 for Proiect Map.				
3.2	Provide the annual and c	umulative forecast o	f the number of customer			
0	attachments over the ten-					
			•			
	commercial/institutional and industrial sectors for each community. Indicate for each customer type whether the service to be provided					
	would be firm or interruptible.					
	Diagon refer to Cohodula L	0 Table 0.0				
	Please refer to Schedule U	z, Table 3.2.				

3.3	Provide the annual and cumulative forecast of volumes (in m <sup>3</sup> ) 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 m <sup>3</sup> 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 U2, 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 U3, 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 U4 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 U5.
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.
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	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 U6 for Enbridge's CPCN for the Municipality of Clarington (EB-2019-0103) that covers all of the Municipality of Clarington and the entire area of the proposed project.
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 U2, Table 4.2.

Con	Complete the tables below:									
Rev	enue Requirement									
	Description	Year 1	Year 2	Year 10	Total					
	Revenue Requirement									
	Description	Year 10	]							
	Closing Rate Base									
ave use	ere applicable, the inflat rage GDP IPI FDD. For in the OEB-prescribed into /IP).	nterest dur	ing construc	tion, the pro	oponent i					

Part V	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$9,318,027
	Please refer to Schedule U2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$23,412
	Please refer to Schedule U2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$9.40
	Please refer to Schedule U2, Table 5.3.

	-
Part VI – Distributio	n 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 U2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part \	/II – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support. The project must have a PI of 1.0. The PI is to be calculated based
	on an individual project (i.e., not a "portfolio" of projects). Please refer to Schedule U2, 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 U2, Table 7.2.

Part V	VIII – OEB Approvals
8.1	<ul> <li>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).</li> <li>Leave to Construct</li> </ul>
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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule U4.

Schedule U1 Enbridge Gas Community Expansion Project Proposal

EB-2019-0255 Schedule U1 Redacted

North Clarington - Enniskillen, Haydon & Tyrone



Schedule U2 Enbridge Gas Community Expansion Project Proposal

# Community Expansion North Clarington

InService Date: Nov-01-2023

# 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>	
Residential	Firm		103	92	35	25	
Commercial	Firm		-	6	3	2	
Institutional	Firm		-	1	-	-	
Agricultural	Firm		-	-	-	-	
Industrial	Firm		-	-	-	-	
Total Customers			<u>103</u>	<u>99</u>	<u>38</u>	<u>27</u>	
Cumulative Customers			103	202	240	267	

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

	Annual Volumes - m3											
Customer Type	Project Year	1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>Z</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
Residential		123,600	357,600	510,000	582,000	634,800	686,400	740,400	794,400	848,400	897,600	6,175,200
Commercial		-	9,800	24,500	33,100	40,500	44,200	44,200	44,200	44,200	44,200	328,900
Institutional		-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
Agricultural		-	-	-	-	-	-	-	-	-	-	-
Industrial		-	-	-	-	-	-	-	-	-	-	-
Total Volumes		<u>123,600</u>	<u>392,400</u>	<u>584,500</u>	<u>665,100</u>	<u>725,300</u>	<u>780,600</u>	<u>834,600</u>	<u>888,600</u>	<u>942,600</u>	<u>991,800</u>	<u>6,929,100</u>

						Cumul	ative Volume	s - 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		123,600	481,200	991,200	1,573,200	2,208,000	2,894,400	3,634,800	4,429,200	5,277,600	6,175,200
Commercial		-	9,800	34,300	67,400	107,900	152,100	196,300	240,500	284,700	328,900
Institutional		-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000
Agricultural		-	-	-	-	-	-	-	-	-	-
Industrial		-	-	-	-	-	-	-	-	-	-
Total Volumes		<u>123,600</u>	<u>516,000</u>	<u>1,100,500</u>	<u>1,765,600</u>	<u>2,490,900</u>	<u>3,271,500</u>	<u>4,106,100</u>	<u>4,994,700</u>	<u>5,937,300</u>	<u>6,929,100</u>

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



 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 U2 Redacted

<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
19	24	21	24	21	20	384
2	-	-	-	-	-	13
-	-	-	-	-	-	1
-	-	-	-	-	-	-
-	-	-	-	-	-	-
<u>21</u>	<u>24</u>	<u>21</u>	<u>24</u>	<u>21</u>	<u>20</u>	<u>398</u>
288	312	333	357	378	398	

## Community Expansion North Clarington InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding		
Section 36.2 Funding Needed to Support the Project	\$ 9,318,027	
Table 5.2 - Section 36.2 Funding Amount Per Customer Served		
Section 36.2 Funding Amount Per Customer Served	<u>Year 10</u> <u>\$ 23,412</u>	
Table 5.3 - Section 36.2 Funding Amount Per Volume (m3)		
Section 36.2 Funding Amount Per Volume (m3)	<u>Year 10</u> <u>\$ 9.40</u>	
Table 6.1 - Distribution Charge		
Distribution Revenue SES Revenue Total Distribution Charge	28,428 90,252 134,435 152,973 166,819 179,538 191,958 204,378 216,798 228,114 1,8	<u>Total</u> 219,288 593,693 312,981
Cash Inflow         Revenue:	Net Present Value	

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)

<u>Cash Outflow</u> 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)

<u>1.00</u>

EB-2019-0255 Schedule U2 Redacted

### Community Expansion North Clarington InService Date: Nov-01-2023

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> Gross Capital Change in Working Capital Total Cash Outflow (D)

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

 EB-2019-0255 Schedule U2 Redacted Schedule U3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 North Clarington	Total Forecasted Customers	398		Penetration Rate	74%						Schedule U3
Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	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)	GHG - Total Community - Existing	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	87	22%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 136,666	7.2	-2.7	624	(233)
Electricity F/A	9	2%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 6,590	0.6	3.9	5	37
Electricity Baseboard	3	1%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 2,197	0.6	3.9	2	12
Propane	249	63%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 70,478	5.6	-1.1	1,390	(271)
Wood	6	2%	\$ 3,500	N/A	N/A	\$-	N/A	N/A	N/A	N/A	N/A
Other	44	11%	\$ 5,000	N/A	N/A	\$-	N/A				
Total	398	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 215,930	13.9	4.1	2,022	(455)

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	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)

	Ra	ite 1 (Community Expansion	, Non-FN)		
	Consumption Equivale	ent		Price per Un	it
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 m<sup>3</sup> 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.

#### EB-2019-0255 Schedule 113

Schedule U4 Enbridge Gas Community Expansion Project Proposal

# North Clarington Community Expansion Project Pipeline Construction Schedule

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

Schedule U5 Enbridge Gas Community Expansion Project Proposal





Mayor Adrian Foster

April 24, 2020

Mr. Mark Wilson Enbridge Regional Director Enbridge Gas Inc. 500 Consumers Road Toronto, ON M2J 1P8

Mark.Wilson@enbridge.com

Dear Mr. Wilson:

# Re: Expression of Support for Natural Gas Expansion to North Clarington (Tyrone, Haydon and Enniskillen)

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 Clarington, I would like to formally express our interest to have North Clarington (Tyrone, Haydon and Enniskillen) 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.

....12

Mark Wilson

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

Yours truly,

Adrian Foster Mayor

Schedule U6 Enbridge Gas Community Expansion Project Proposal

# EB-2019-0103

# **Certificate of Public Convenience and Necessity**

The Ontario Energy Board grants

# Enbridge Gas Inc.

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

# **Municipality of Clarington**

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

**DATED** at Toronto, April 25, 2019

ONTARIO ENERGY BOARD

Pascale Duguay Manager, Application Policy and Climate Change Schedule V Enbridge Gas Community Expansion Project Proposal

North Grenville

#### 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: North Grenville Community Expa	nsion 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	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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 I	II – Description of and Sup	port for Project						
3.1 Redacted	Provide a general overvie following: communities to would serve any on-reser	ew of the project, whi o be connected, inclu- ve Indigenous comm sidential, commercia	uding whether the project nunities; existing population I/institutional and industrial					
	Enbridge Gas is proposing to serve communities within the Municipality of North Grenville, specifically along and The proposed facilities will provide access to natural gas to a forecasted 69 customers (68 residential and 1 commercial / institutional).							
	distribution system heads	along	e off The proposed from the tie-in to, Approximately 5.7 km of					
	The approximate length and s	size of the distribution pi	pelines required:					
	Pipe Type	Diameter (NPS)	Length (m)					
	Polyethylene	2	5,733					
3.2	attachments over the ten- commercial/institutional a	umulative forecast o -year rate stability pe and industrial sector	s for each community.					
	Indicate for each custome would be firm or interrupt	<i>v</i> .	service to be provided					
	Please refer to Schedule V	2, Table 3.2.						
3.3		od by residential, o	volumes (in m <sup>3</sup> ) over the ten- commercial/institutional and					
	level is 2,200 m <sup>3</sup> per year. regarding the annual con	A proponent that has sumption for resider value, in which case	for the average consumption as more accurate information ntial customers in a given it must explain how it has lefault.					

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 V3, 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 V4 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 V5.
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 V6 for Enbridge's CPCN for the Municipality of North Grenville (RP-2000-0074 / EB-2003-0153) that covers all of the Municipality of North Grenville and 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 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 V2, 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     Itear I     Itear II     Itear II											
	DescriptionYear 10Closing 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 V2, 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. \$1,814,425
	Please refer to Schedule V2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$26,296
	Please refer to Schedule V2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$11.28
	Please refer to Schedule V2, Table 5.3.

Part V	/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 V2, 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	<ul> <li>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.</li> <li>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).</li> <li>Please refer to Schedule V2, Table 7.1.</li> </ul>
7.2	<ul> <li>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.</li> <li>Please refer to Schedule V2, Table 7.2.</li> </ul>

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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule V4.

Schedule V1 Enbridge Gas Community Expansion Project Proposal

North Grenville

# North Grenville



ENBRIDGE

EB-2019-0255 Schedule V1 Redacted Schedule V2 Enbridge Gas Community Expansion Project Proposal

North Grenville

### Community Expansion North Grenville

InService Date: Nov-01-2023

# Table 3.2 - Customer Attachments Over The Rate Stability Period

Customer Type	Firm / IT	Project Year	1	2	<u>3</u>	<u>4</u>	
Residential	Firm		18	16	6	4	
Commercial	Firm		-	1	-	-	
Institutional	Firm		-	-	-	-	
Agricultural	Firm		-	-	-	-	
Industrial	Firm		-	-	-	-	
Total Customers			<u>18</u>	<u>17</u>	<u>6</u>	<u>4</u>	
Cumulative Customers			18	35	41	45	

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

		Annual 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		21,600	62,400	88,800	100,800	110,400	120,000	129,600	139,200	148,800	158,400	1,080,000
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>21,600</u>	<u>63,600</u>	<u>91,200</u>	<u>103,200</u>	<u>112,800</u>	<u>122,400</u>	<u>132,000</u>	<u>141,600</u>	<u>151,200</u>	<u>160,800</u>	<u>1,100,400</u>

		Cumulative 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>
Residential		21,600	84,000	172,800	273,600	384,000	504,000	633,600	772,800	921,600	1,080,000
Commercial		-	1,200	3,600	6,000	8,400	10,800	13,200	15,600	18,000	20,400
Institutional		-	-	-	-	-	-	-	-	-	-
Agricultural		-	-	-	-	-	-	-	-	-	-
Industrial		-	-	-	-	-	-	-	-	-	-
Total Volumes		<u>21,600</u>	<u>85,200</u>	<u>176,400</u>	<u>279,600</u>	<u>392,400</u>	<u>514,800</u>	<u>646,800</u>	788,400	<u>939,600</u>	<u>1,100,400</u>

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

	<u>Year 10</u>			
Project Year	<u>1</u>	2	3	<u>4</u>
	Year 10			

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 V2 Redacted

	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Fotal</u>
4	4	4	4	4	4	4	68
-		-	-	-	-	-	1
		-	-	-	-	-	-
		-	-	-	-	-	-
		-	-	-	-	-	-
4	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>69</u>
49	9 5	53 5	57 (	61	65	69	



## Community Expansion North Grenville InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding												
Section 36.2 Funding Needed to Support the Project		\$ 1,814,425										
Table 5.2 - Section 36.2 Funding Amount Per Customer Served												
Section 36.2 Funding Amount Per Customer Served		<u>Year 10</u> <u>\$ 26,296</u>										
Table 5.3 - Section 36.2 Funding Amount Per Volume (m3)												
Section 36.2 Funding Amount Per Volume (m3)		<u>Year 10</u> \$ 11.28										
Table 6.1 - Distribution Charge												
Distribution Revenue SES Revenue Total Distribution Charge	Project Year	\$ 3,785 4,968 <u>\$ 8,753</u>	2 11,460 14,628 26,088	3 16,612 20,976 <u>37,588</u>	<b>4</b> 18,714 23,736 <u>42,450</u>	5 20,397 25,944 <u>46,341</u>	<u>6</u> 22,079 28,152 <u>50,231</u>	7 23,761 30,360 54,121	8 25,443 32,568 58,011	9 27,125 34,776 <u>61,901</u>	10         28,808       \$         36,984       \$         65,792       \$	<u>Total</u> 198,184 253,092 451,276
Table 7.1 - Profitability Index (PI) Inclusive of Section 36.2 Funding	Net Pres	sent Value										

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

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

Total Cash Inflow (C = A + B)

<u>Cash Outflow</u> Gross Capital Proposed Section 36.2 Funding Change in Working Capital Total Cash Outflow (D)









<u>1.00</u>

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

Page 2 of 3

EB-2019-0255 Schedule V2 Redacted

### Community Expansion North Grenville InService Date: Nov-01-2023

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> Gross Capital Change in Working Capital Total Cash Outflow (D)

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



EB-2019-0255 Schedule V2 Redacted Schedule V3 Enbridge Gas Community Expansion Project Proposal

North Grenville

Section 3.4 North Grenville											Schedule V3
	Total Forecasted Customers	69		Penetration Rate	65%						
Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	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)	Estimated Annual GHG - Total Community - Existing	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	14	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 22,746	7.2	-2.7	, 104	(39)
Electricity F/A	6	9%						0.6	3.9		24
Electricity Baseboard	8	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 5,849	0.6	3.9	5	32
Propane	30	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 8,602	5.6	-1.1	. 170	(33)
Wood	6	9%	\$ 3,500	N/A	N/A	\$-	N/A	N/A	N/A	N/A	N/A
Other	3	5%	\$ 5,000	N/A	N/A	\$-	N/A				
Total	69	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 41,584	13.9	4.1	282	(15)

1 Fuel shares were estimated based on the average fuel share distribution observed in other potential expansion areas. Specially, the fuel share distribution from 27 prospective expansion areas. 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/kWł									
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 m<sup>3</sup> 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.

#### EB-2019-0255 Schedule V3

Schedule V4 Enbridge Gas Community Expansion Project Proposal

North Grenville
# North Grenville Community Expansion Project Pipeline Construction Schedule

Task Name		2022						2023								2024																				
		Feb	Ma	r Ap	or Ma	ay Ju	n Ju	ul Au	ıg Sep	p Oc	t No	v Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Au	g Sep	Oct	t 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																																				

EB-2019-0255 Schedule V4 Schedule V5 Enbridge Gas Community Expansion Project Proposal

North Grenville

EB-2019-0255 Schedule V5 Redacted



March 11, 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

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 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 municipal government, demonstrated through a written expression of support and/or a commitment to financial support in its project submissions.

1

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 Peckford 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 V6 Enbridge Gas Community Expansion Project Proposal

North Grenville



Ontario Energy Board Commission de l'Énergie de l'Ontario



R	P-2000-0074	1
Ε	B-2003-0153	
Certificate of Public Convenience and Necessity		2
The Ontario Energy Board hereby grants		3
Enbridge Gas Distribution Inc.		4
approval under section 8 of the Municipal Franchises Act, R.S.O. 1990, c. M.55, to conto supply gas to the	nstruct works	5
Township of North Grenville.		6
This certificates replaces the certificates of the former municipalities that are now with Township of North Grenville.	thin the	7
DATED at Toronto, January 6, 2004.		8

ONTARIO ENERGY BOARD

Paul & Ridge

Paul B. Pudge Assistant Secretary

## Schedule W 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: Sarsfield Community Expansi	on Project
Address of Head Office:	Telephone Number:
50 Keil Drive North	519-436-4600
Chatham, ON N7M 5M1	
Name of Individual to Contact:	Office Telephone Number:
	519-436-5325
Patrick McMahon	Cell Phone Number:
	519-437-0759
	Email Address:
	patrick.mcmahon@enbridge.com

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

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

A proponent that is not currently rate-regulated as a natural gas distributor by the OEB and that has multiple proposed projects is only required to provide the information in this Part once, unless the proponent has different organizational or financial structure approaches for its projects. In that case, the information in this Part must be provided for each different organizational or financing structure.

Part	II – Description of Proponent's Technical Expertise and Financial Capability
2.1	Describe the proponent's technical expertise to develop, construct, operate and maintain a natural gas distribution system. N/A
2.2	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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 I	II – Description of and Sup	port for Project						
3.1 Redacted	would serve any on-rese	o be connected, inclu rve Indigenous comm sidential, commercial	Iding whether the project nunities; existing population I/institutional and industrial					
	Enbridge Gas is proposing to serve the community of Sarsfield located in the eastern portion of the City of Ottawa in the former Township of Cumberland.							
	The proposed facilities will provide access to natural gas to a forecasted 236 customer (211 residential, 19 commercial / institutional and 4 industrial).							
	The proposed project will tie-in to an existing NPS 6 steel XHP line on and The proposed feed to the distribution system heads along to, onbetween and The proposed distribution system includes, ,,, and the tail end of in Sarsfield.							
	A new station is proposed at	the tie-in on	and					
	The approximate length and	size of the distribution pip	pelines required:					
	Pipe Type	Diameter (NPS)	Length (m)					
	Polyethylene	2	6,500					
	Polyethylene	4	13,500					
	Please refer to Schedule V	V1 for Project Map.	,					
3.2	Provide the annual and c attachments over the ten commercial/institutional Indicate for each custom would be firm or interrup Please refer to Schedule V	-year rate stability pe and industrial sectors er type whether the s tible.	s for each community.					

3.3	Provide the annual and cumulative forecast of volumes (in m <sup>3</sup> ) 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 m <sup>3</sup> 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 W2, 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 W3, 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 W4 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 W5.

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 holds various Certificates of Public Convenience and Necessity related to specific areas within the City of Ottawa. Please refer to Schedule W6 for Enbridge's CPCN (FBC 196) that covers all of the former Township of Cumberland within which Sarsfield is located.
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 W2, Table 4.2.

4.3	Provide the total annual for the ten-year rate stability per rate base amount at the end	eriod (using	, fully alloca								
	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 W2,	Table 4.3.									

Part V	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$7,369,447
	Please refer to Schedule W2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$31,226
	Please refer to Schedule W2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$8.83
	Please refer to Schedule W2, Table 5.3.

-		~ .
Part VI	<ul> <li>Distribution</li> </ul>	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 W2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part \	/II – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.
	The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a "portfolio" of projects).
	Please refer to Schedule W2, 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 W2, Table 7.2.

Part V	VIII – OEB Approvals
8.1	<ul> <li>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).</li> <li>Leave to Construct</li> </ul>
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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule W4.

## Schedule W1 Enbridge Gas Community Expansion Project Proposal



## Schedule W2 Enbridge Gas Community Expansion Project Proposal

#### Community Expansion Sarsfield

InService Date: Nov-01-2023

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

Customer Type	<u>Firm / IT</u>	Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	
Residential	Firm		58	50	19	13	
Commercial	Firm		-	9	4	4	
Institutional	Firm		-	-	-	-	
Agricultural	Firm		-	4	-	-	
Industrial	Firm		-	2	-	-	
Total Customers			<u>58</u>	<u>65</u>	<u>23</u>	<u>17</u>	
Cumulative Customers			58	123	146	163	

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

<u>9 10</u>	<u>Total</u>
449,201 475,960	3,274,712
89,000 89,000	674,900
	-
70,000 70,000	595,000
200,000 200,000	1,700,000
<u>808,201</u> <u>834,960</u>	<u>6,244,612</u>
	449,201 475,960 89,000 89,000  70,000 70,000 200,000 200,000

						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		66,657	257,867	528,934	837,140	1,173,304	1,537,428	1,929,510	2,349,552	2,798,752	3,274,712
Commercial		-	21,000	72,900	144,600	229,900	318,900	407,900	496,900	585,900	674,900
Institutional		-	-	-	-	-	-	-	-	-	-
Agricultural		-	35,000	105,000	175,000	245,000	315,000	385,000	455,000	525,000	595,000
Industrial		-	100,000	300,000	500,000	700,000	900,000	1,100,000	1,300,000	1,500,000	1,700,000
Total Volumes		<u>66,657</u>	<u>413,867</u>	<u>1,006,834</u>	<u>1,656,740</u>	<u>2,348,204</u>	<u>3,071,328</u>	<u>3,822,410</u>	<u>4,601,452</u>	<u>5,409,652</u>	<u>6,244,612</u>

#### 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 W2 Redacted

<u>Total</u>	<u>10</u>	<u>9</u>	<u>8</u>	<u>Z</u>	<u>6</u>	<u>5</u>
211	11	12	13	11	13	11
19	-	-	-	-	-	2
-	-	-	-	-	-	-
4	-	-	-	-	-	-
2	-	-	-	-	-	-
<u>236</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>11</u>	<u>13</u>	<u>13</u>
	236	225	213	200	189	176



## Community Expansion Sarsfield

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding		
Section 36.2 Funding Needed to Support the Project	\$ 7,369,447	
Table 5.2 - Section 36.2 Funding Amount Per Customer Served		
	Year 10	
Section 36.2 Funding Amount Per Customer Served	<u>\$ 31,226</u>	
Table 5.3 - Section 36.2 Funding Amount Per Volume (m3)		
Section 36.2 Funding Amount Per Volume (m3)	<u>Year 10</u> <u>\$ 8.83</u>	
Table 6.1 - Distribution Charge		
	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 10 Total</u>
Distribution Revenue	\$ 11,992 48,624 79,636 91,146 99,711 105,841 110,829 115,817	121,016 125,794 \$ 910,404
SES Revenue	15,331 79,858 136,382 149,478 159,037 166,318 172,749 179,180	185,886 192,041 1,436,261
Total Distribution Charge	<u>\$27,323</u> <u>128,482</u> <u>216,018</u> <u>240,624</u> <u>258,747</u> <u>272,159</u> <u>283,578</u> <u>294,997</u>	<u>306,902</u> <u>317,834</u> <u>\$ 2,346,664</u>
Table 7.1 - Profitability Index (PI) Inclusive of Section 36.2 Funding		
	Net Present Value	
Cash Inflow		
Revenue:		
Distribution Revenue		
System Expansion Surcharge (SES) Revenue		
Total Revenue (A)		
Expenses:		
O&M Expense		
Municipal Tax		
Income Tax		
Total Expenses (B)		
Total Cash Inflow ( $C = A + B$ )		
Cash Outflow		
Gross Capital		
Proposed Section 36.2 Funding		
Change in Working Capital Total Cash Outflow (D)		
Lotol ( Joch ( )uttlow (1))		

<u>1.00</u>

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

EB-2019-0255 Schedule W2 Redacted

#### Community Expansion Sarsfield

InService Date: Nov-01-2023

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> 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 W2 Redacted

## Schedule W3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Sarsfield	Total Forecasted Customers	236		Penetration Rate	65%						Schedule W3
Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	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)	Estimated Annual GHG - Total Community - Existing	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
											<u> </u>
Oil	50	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 77,797	7.2	-2.7	355	(133)
Electricity F/A	21	9%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 15,005	0.6	3.9	12	83
Electricity Baseboard	28	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 20,007	0.6	3.9	17	111
Propane	104	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 29,421	5.6	-1.1	580	(113)
Wood	21	9%	\$ 3,500	N/A	N/A	\$-	N/A	N/A	N/A	N/A	N/A
Other	12	5%	\$ 5,000	N/A	N/A	\$-	N/A				
Total	236	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 142,229	13.9	4.1	965	(52

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	0.0018743	55 tonnes/m3
Heating Oil	2725 g/L	0.006 g/L	0.031 g/L	0.0027343	88 tonnes/L
Propane	1510 g/L	0.024 g/L	0.108 g/L	0.0015427	84 tonnes/L
Electricity	30 g/kWh	-	-	0.000	03 tonnes/kWh
Wood	-	-	-	-	-

Emission Factor Sources:

Natural gas, heating oil and propane CO2 factors: Guideline for Quantification, Reporting and Verification of GHG Emissions - Ontario Ministry of Environment, Conservation and Parks Natural gas, heating oil and propane CH4 and N2O factors: Canada's Greenhouse Gas Quantification Requirements, December 2019 - Environment and Climate Change Canada Electricity factors: 2020 National Inventory Report (Part 3) - Environment and Climate Change Canada (using 2018 consumption intensity for Ontario) Estimated Annual GHG (tCO2e) = Emission Factors x Consumption Equivalent

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

	Rate 1 (Community Expansion, Non-FN)							
Consumption 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 m<sup>3</sup> 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.

# EB-2019-0255

## Schedule W4 Enbridge Gas Community Expansion Project Proposal

# Sarsfield Community Expansion Project Pipeline Construction Schedule

Task Nama						20	022											20	)23											20	24					
Task Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	g Sep	o Oct	: Nov	/ Dec	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																																				
Pre-Construction, Construction and Testing																																				
In Service																																				

## Schedule W5 Enbridge Gas Community Expansion Project Proposal



**Jim Watson** Mayor / Maire Office of the Mayor City of Ottawa no Laurier Avenue West Ottawa, Ontario K1P 1J1 Tel.: (613) 580-2496 Fax: (613) 580-2509 E-mail: Jim.Watson@ottawa.ca Bureau du maire Ville d'Ottawa EB-2019-0255 Schedule W5 Redacted

vine d Ottawa no, avenue Laurier Ouest Ottawa (Ontario) KıP 1J1 Tél.: (613) 580-2496 Téléc.: (613) 580-2509 Courriel : Jim.Watson@ottawa.ca

March 27, 2020

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

Dear Mr. Ross

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

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

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

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

[.../2]

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

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

Sincerely, Jim Watson

Mayor City of Ottawa

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

## Schedule W6 Enbridge Gas Community Expansion Project Proposal

F.B.C. 196

EB-2019-0255 Schedule W6

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' Gas Company for a certificate of public convenience and necessity to construct works and to supply natural gas to the Township of Cumberland in the County of Prescott and Russell

BEFORE:

A. R. Crosier, Chairman W. R. Noward, Commissioner of January, 1958.

# CERTIFICATE OF FUBLIC CONVENIENCE

UPON THE APPLICATION of The Consumers' Gas Company (hereinafter referred to as the "Applicant") for a certificate pursuant to the provisions of The Municipal Franchises Act, R. S. O. 1950 Chapter 249 and amendments thereto and upon the hearing of such application by the Board in the City of Toronto on the 31st day of January, 1958, after due notice of such hearing had been given as directed by the Board, in the presence of Counsel for the Applicant, no one else appearing, upon consideration of the evidence and exhibits produced at the hearing and upon hearing what was alleged by Counsel aforesaid,

1. THIS BOARD DOTH ORDER THAT a Certificate of Public Convenience and Mecessity be and the same is hereby granted to The Consumers' Gas Company for the supply of natural gas to the inhabitants of the Township of Cumberland and for the construction of the works necessary therefor.

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

DATED at Toronto this 11th day of February 1958.

#### ONTARIO FUEL BOARD

Chalman Hou p Connissioner

Schedule X Enbridge Gas Community Expansion Project Proposal

South Dundas

#### 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: South Dundas Community Expa	nsion 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	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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 I	Part III – Description of and Support for Project				
3.1 Redacted	Provide a general overview of the project, which is to include the				
	Enbridge Gas is proposing to serve the Township of South Dundas in eastern Ontario. The proposed facilities will provide access to natural gas to a forecasted 125 customers (96 residential, 26 commercial / institutional and 3 industrial).				
	The proposed tie-in point will be near the intersection of and connecting to existing TC Energy pipeline. The proposed distribution pipeline will consist of 10,800 m of 2" polyethylene pipe and 4,320 m of 4" polyethylene pipe. The proposed distribution system will extend via to, to, to, and				
	There will be no reinforcement required to accommodate additional loads for the system. A new class 7 TC Energy station is required to be installed on and				
	The approximate length and size of the distribution pipelines required:				
	Pipe Type Polyethylene	Diameter (NPS) 2	Length (m) 10,800		
	The approximate length and size of the supply laterals required:				
	Pipe Type Polyethylene	Diameter (NPS) 4	Length (m) 4,320		
	Please refer to Schedule X	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 X2	2, Table 3.2.			

3.3	<ul> <li>Provide the annual and cumulative forecast of volumes (in m<sup>3</sup>) over the ten- year rate stability period by residential, commercial/institutional and industrial sectors for each community.</li> <li>For the residential segment, the default value for the average consumption level is 2,200 m<sup>3</sup> 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.</li> <li>Please refer to Schedule X2, Table 3.3.</li> </ul>	
3.4	<ul> <li>Prease refer to Schedule X2, Table 3.3.</li> <li>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.</li> <li>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.</li> </ul>	
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 X4, 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.	

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 X6 for Enbridge's CPCN for the Township of South Dundas (EB-2006-0142) that covers the entire area of the proposed project.				
Part I	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 X2, Table 4.2.				
C	omplete the tables below:				
----------	---	-------------	--------------	-----------------	------------
R	evenue Requirement				
	Description	Year 1	Year 2	Year 10	Total
	Revenue Requirement				
	Description	Year 10	]		
	Closing Rate Base		-		
av us	/here applicable, the inflat verage GDP IPI FDD. For in se the OEB-prescribed int CWIP).	nterest dur	ing construc	ction, the pro-	oponent is

Part V	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$6,101,876
	Please refer to Schedule X2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$48,815
	Please refer to Schedule X2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$8.33
	Please refer to Schedule X2, Table 5.3.

	-
Part VI – Distributio	n 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 X2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part \	/II – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.
	The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a "portfolio" of projects).
	Please refer to Schedule X2, 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 X2, Table 7.2.

Part V	/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).
	<ul> <li>Leave to Construct</li> <li>System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)</li> </ul>
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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule X4.

Schedule X1 Enbridge Gas Community Expansion Project Proposal

EB-2019-0255 Schedule X1 Redacted

## South Dundas



ENBRIDGE Life Takes Energy Schedule X2 Enbridge Gas Community Expansion Project Proposal

### Community Expansion South Dundas

## InService Date: Nov-01-2022

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

Customer Type	<u>Firm / IT</u>	Project Year	1	<u>2</u>	
Residential	Firm		30	22	
Commercial	Firm		-	10	
Institutional	Firm		-	-	
Agricultural	Firm		-	7	
Industrial	Firm		-	3	
Total Customers			<u>30</u>	<u>42</u>	
Cumulative Customers			30	72	

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

Customer Type	Project Year	1	2	3	4	5	6	7	8	9	10	Total
Residential		33,000	90,200	130,900	155,100	170,500	181,500	188,100	194,700	201,300	207,900	1,553,200
Commercial		-	17,700	43,400	53,600	56,900	58,000	58,000	58,000	58,000	58,000	461,600
Institutional		-	-	-	-	-	-	-	-	-	-	-
Agricultural		-	83,300	166,600	166,600	166,600	166,600	166,600	166,600	166,600	166,600	1,416,100
Industrial		-	150,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	2,550,000
Total Volumes		<u>33,000</u>	<u>341,200</u>	<u>640,900</u>	<u>675,300</u>	<u>694,000</u>	<u>706,100</u>	<u>712,700</u>	<u>719,300</u>	<u>725,900</u>	<u>732,500</u>	<u>5,980,900</u>

						Cumulative	Volumes - m3	3			
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		33,000	123,200	254,100	409,200	579,700	761,200	949,300	1,144,000	1,345,300	1,553,200
Commercial		-	17,700	61,100	114,700	171,600	229,600	287,600	345,600	403,600	461,600
Institutional		-	-	-	-	-	-	-	-	-	-
Agricultural		-	83,300	249,900	416,500	583,100	749,700	916,300	1,082,900	1,249,500	1,416,100
Industrial		-	150,000	450,000	750,000	1,050,000	1,350,000	1,650,000	1,950,000	2,250,000	2,550,000
Total Volumes	-	<u>33,000</u>	374,200	<u>1,015,100</u>	<u>1,690,400</u>	<u>2,384,400</u>	<u>3,090,500</u>	3,803,200	<u>4,522,500</u>	5,248,400	<u>5,980,900</u>

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

Total Capital Costs		<u>Year 10</u>										
Table 4.3 - Revenue Requirement Over The Rate Stability Period												
Revenue Requirement	Project Year	<u>1</u>	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	Z	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
Closing Rate Base (net of proposed Section 36.2 funding)		<u>Year 10</u>										

### EB-2019-0255 Schedule X2 Redacted

3 15 6 - -	<b>4</b> 7 2 - -	5 7 1 - -	6 3 - - -	<b>7</b> 3 - -	8 3 - - -	<mark>9</mark> 3 - - -	<u>10</u> 3 - -	<u>Total</u> 96 19 - 7 3
<u>21</u> 93	<u>9</u> 102	<u>8</u> 110	<u>3</u> 113	<u>3</u> 116	<u>3</u> 119	<u>3</u> 122	<u>3</u> 125	<u>125</u>
	102	Annual Volu					120	

#### Community Expansion South Dundas InService Date: Nov-01-2022

Table 5.1 - Total Amount of Section 36.2 Funding		
Section 36.2 Funding Needed to Support the Project	<u>\$ 6,101,876</u>	
Table 5.2 - Section 36.2 Funding Amount Per Customer Served		
Section 36.2 Funding Amount Per Customer Served	<mark>Year 10</mark> <u>\$</u> 48,815	
Table 5.3 - Section 36.2 Funding Amount Per Volume (m3)		
Section 36.2 Funding Amount Per Year 10 Volume (m3)	<u>Year 10</u> <u>\$8.33</u>	
Table 6.1 - Distribution Charge		
Distribution Revenue SES Revenue Total Distribution Charge	Project Year         1           \$         6,950           7,590           \$         14,540	2 40,818 78,476 <u>119,294</u>
Table 7.1 - Profitability Index (PI) Inclusive of Section 36.2 Funding		
<u>Cash Inflow</u> Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A)	<u>Net Present Value</u>	
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)	<u>1.00</u>	

EB-2019-0255 Schedule X2 Redacted

<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>
72,725	79,799	83,737	86,285	87,675	89,065	90,455	91,845	\$ 729,354
147,407	155,319	159,620	162,403	163,921	165,439	166,957	168,475	1,375,607
<u>220,132</u>	<u>235,118</u>	<u>243,357</u>	<u>248,688</u>	<u>251,596</u>	<u>254,504</u>	<u>257,412</u>	<u>260,320</u>	<u>\$ 2,104,961</u>

#### Community Expansion South Dundas InService Date: Nov-01-2022

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> 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 X2 Redacted Schedule X3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 South Dundas	Total Forecasted Customers	125		Penetration Rate	65%						Schedule X3
Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup> Estimated Conversion Cost <sup>2</sup>		Estimated Annual Energy Costs (existing fuel)	Estimated Annual Energy Costs (natural gas)		Estimated Annual Savings	GHG per customer Existing Fuel	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community - Existing	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil Electricity F/A Electricity Baseboard Propane Wood Other	26 11 15 55 11 6	21% 9% 12% 44% 9% 5%	\$ 5,000 \$ 12,000 \$ 600 \$ 3,500	\$ 1,998 \$ 1,998 \$ 1,611	\$       1,495 \$       1,495	\$ 503 \$ 503 \$ 116 \$ -	\$ 5,657 \$ 7,543		3.6 3.6	6 6 8 8 281	(64) 40 54 (54) N/A
Total	125	100%	\$ 31,100	\$ 8,395	\$ 5,981	\$ 2,414	\$ 53,512	12.7	3.8	467	(24)

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	0.00187435	5 tonnes/m3
Heating Oil	2725 g/L	0.006 g/L	0.031 g/L	0.00273438	88 tonnes/L
Propane	1510 g/L	0.024 g/L	0.108 g/L	0.00154278	84 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 Equivalent 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.

### EB-2019-0255 Schodulo X3

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

•

Schedule X4 Enbridge Gas Community Expansion Project Proposal

# South Dundas Community Expansion Project Pipeline Construction Schedule

Taali Nama		2021							2022								2023																				
Task Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	v Dec	Jan	Feb	o Ma	r Ap	r Ma	ay Ju	un	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 X5 Enbridge Gas Community Expansion Project Proposal

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**MUNICIPALITY OF SOUTH DUNDAS** 

34 Ottawa Street, P.O. Box 740 Morrisburg ON KOC 1X0 613.543.2673 | southdundas.com

March 20, 2020

Enbridge Gas Inc. Attention: Luke Skaarup

Dear Mr. Skaarup:

### Re: Expression of Support for Natural Gas Expansion to the Municipality of South Dundas

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 South Dundas, I would like to formally express our interest to have the Municipality of South Dundas 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 OED (EB-2019-0225) 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.

Yours truly,

Mynor

Steven Byvelds Mayor Municipality of South Dundas

BB/er

Schedule X6 Enbridge Gas Community Expansion Project Proposal

EB-2019-0255 Schedule X6

EB-2006-0142

### **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, to construct works to supply gas to the

### **Corporation of the Township of South Dundas**

Dated at Toronto, August 9, 2006

**ONTARIO ENERGY BOARD** 

E.I. W.M.

Kirsten Walli Board Secretary

Schedule Y Enbridge Gas Community Expansion Project Proposal

St. Charles

#### 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: St. Charles Community Expansion Pro	iect
The sector and the se	<u>j</u> 001
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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2.1	Describe the proponent's technical expertise to develop, construct, operate and maintain a natural gas distribution system. N/A
2.2	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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 I	II – Description of and Sup	port for Project								
3.1 Redacted	Provide a general overvie following: communities t would serve any on-rese	ew of the project, whic o be connected, inclu rve Indigenous comm sidential, commercial	ding whether the project unities; existing population /institutional and industrial							
	Enbridge Gas is proposing to serve the Municipality of St. Charles located in the Sudbury District. The proposed facilities will provide access to natural gas to a forecasted 162 customers (143 residential, 18 commercial / institutional and 1 industrial).									
	The proposed tie-in point will be near the intersection of and connecting to an existing 10" steel pipeline. The proposed distribution pipeline will consist of 5,650 m of 2" polyethylene pipe and 9,750 m of 4" polyethylene pipe. The proposed distribution system will extend along to									
	There will be no reinforcemer One station required upsizing The approximate length and s	in St. Charles Sudbury.	ate additional loads for the system. elines required:							
	Pipe Type	Diameter (NPS)	Length (m)							
	Polyethylene	2	5,650							
	The approximate length and	size of the supply laterals	required:							
	Pipe Type	Diameter (NPS)	Length (m)							
	Polyethylene	4	9,750							
	Please refer to Schedule Y	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 Y	2, Table 3.2.								

3.3	Provide the annual and cumulative forecast of volumes (in m <sup>3</sup> ) 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 m <sup>3</sup> 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 Y2, 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 Y3, 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 Y4 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 Y5.

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 hold a Certificate of Public Convenience and Necessity for the Municipality of St. Charles because the only facilities currently in place within the municipality are transmission-related and they do not provide service to an end-user.
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 Y2, Table 4.2.

4.3	Provide the total annual for the ten-year rate stability per rate base amount at the end	eriod (using	, fully alloca		
	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 average GDP IPI FDD. For in- use the OEB-prescribed inte (CWIP).	terest durir	ig construct	tion, the pro	ponent is to
	Please refer to Schedule Y2, T	able 4.3.			

Part V	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$6,385,185
	Please refer to Schedule Y2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$39,415
	Please refer to Schedule Y2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$12.10
	Please refer to Schedule Y2, Table 5.3.

	-
Part VI – Distributio	n 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 Y2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

Part \	/II – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.
	The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a "portfolio" of projects).
	Please refer to Schedule Y2, 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 Y2, 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
	<ul> <li>System Expansion Surcharge (SES) rate approval (subject to OEB</li> </ul>
	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 <u>website</u> and where applicable assume a written hearing process.
	Please refer to Schedule Y4.

Schedule Y1 Enbridge Gas Community Expansion Project Proposal

St. Charles

## St. Charles

EB-2019-0255 Schedule Y1 Redacted





Schedule Y2 Enbridge Gas Community Expansion Project Proposal

St. Charles

### Community Expansion St. Charles

InService Date: Nov-01-2023

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

- 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		44	33	22	12	12	4	4	4	4	4	143
Commercial	Firm		-	11	2	2	2	-	-	-	-	-	17
Institutional	Firm		-	1	-	-	-	-	-	-	-	-	1
Agricultural	Firm		-	-	-	-	-	-	-	-	-	-	-
Industrial	Firm		-	1	-	-	-	-	-	-	-	-	1
Total Customers			<u>44</u>	<u>46</u>	<u>24</u>	<u>14</u>	<u>14</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>162</u>
Cumulative Customers			44	90	114	128	142	146	150	154	158	162	

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

					Annual Vo	olumes - m3					
Project Year	1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	46,798	129,575	189,434	226,193	252,272	269,872	278,672	287,472	296,272	305,072	2,281,630
	-	25,500	54,600	61,800	69,000	72,600	72,600	72,600	72,600	72,600	573,900
	-	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>46,798</u>	230,075	<u>394,034</u>	<u>437,993</u>	<u>471,272</u>	<u>492,472</u>	<u>501,272</u>	<u>510,072</u>	<u>518,872</u>	<u>527,672</u>	4,130,530
	Project Year	46,798 - - - -	46,798 129,575 - 25,500 - 25,000  - 50,000	46,798 129,575 189,434 - 25,500 54,600 - 25,000 50,000  - 50,000 100,000	46,798         129,575         189,434         226,193           -         25,500         54,600         61,800           -         25,000         50,000         50,000           -         -         -         -           -         50,000         100,000         100,000	Project Year         1         2         3         4         5           46,798         129,575         189,434         226,193         252,272           -         25,500         54,600         61,800         69,000           -         25,000         50,000         50,000         50,000           -         -         -         -         -           -         50,000         100,000         100,000         100,000	46,798         129,575         189,434         226,193         252,272         269,872           -         25,500         54,600         61,800         69,000         72,600           -         25,000         50,000         50,000         50,000         50,000           -         -         -         -         -         -           -         50,000         100,000         100,000         100,000	Project Year         1         2         3         4         5         6         7           46,798         129,575         189,434         226,193         252,272         269,872         278,672           -         25,500         54,600         61,800         69,000         72,600         72,600           -         25,000         50,000         50,000         50,000         50,000         50,000           -         -         -         -         -         -         -           -         50,000         100,000         100,000         100,000         100,000         100,000	Project Year         1         2         3         4         5         6         7         8           46,798         129,575         189,434         226,193         252,272         269,872         278,672         287,472           -         25,500         54,600         61,800         69,000         72,600         72,600         72,600           -         25,000         50,000         50,000         50,000         50,000         50,000         50,000           -         25,000         100,000         100,000         100,000         100,000         100,000         100,000	Project Year         1         2         3         4         5         6         7         8         9           46,798         129,575         189,434         226,193         252,272         269,872         278,672         287,472         296,272           -         25,500         54,600         61,800         69,000         72,600         72,600         72,600         72,600         72,600         50,000         100,000         100,000         100,000         100,000         100,000         100,000         100,000         100,000         100,000         100,000         100,000         100,000         100,000         100,000         100,000         100,000	Project Year         1         2         3         4         5         6         7         8         9         10           46,798         129,575         189,434         226,193         252,272         269,872         278,672         287,472         296,272         305,072           -         25,500         54,600         61,800         69,000         72,600         72,600         72,600         72,600         72,600         72,600         72,600         72,600         50,000 </th

						Cumulative	Volumes - m	3				
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		46,798	176,372	365,806	591,998	844,270	1,114,142	1,392,814	1,680,286	1,976,558	2,281,630	
Commercial		-	25,500	80,100	141,900	210,900	283,500	356,100	428,700	501,300	573,900	
Institutional		-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000	
Agricultural		-	-	-	-	-	-	-	-	-	-	
Industrial		-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000	
Total Volumes	-	<u>46,798</u>	<u>276,872</u>	<u>670,906</u>	<u>1,108,898</u>	<u>1,580,170</u>	<u>2,072,642</u>	<u>2,573,914</u>	<u>3,083,986</u>	<u>3,602,858</u>	<u>4,130,530</u>	

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

Total Capital Costs	I	<u>Year 10</u>	
Table 4.3 - Revenue Requirement Over The Rate Stability Period			
Revenue Requirement	Project Year	1	<u>2</u>
Closing Rate Base (net of proposed Section 36.2 funding)	I	<u>Year 10</u>	

### EB-2019-0255 Schedule Y2 Redacted

<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>
_	_	_		_	_	_		

### Community Expansion St. Charles

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding	
Section 36.2 Funding Needed to Support the Project	<u>\$ 6,385,185</u>
Table 5.2 - Section 36.2 Funding Amount Per Customer Served	
Section 36.2 Funding Amount Per Customer Served	<u>Year 10</u> <u>\$ 39,415</u>
Table 5.3 - Section 36.2 Funding Amount Per Volume (m3)	
Section 36.2 Funding Amount Per Year 10 Volume (m3)	<u>Year 10</u> <u>\$ 12.10</u>
Table 6.1 - Distribution Charge	
Distribution Revenue SES Revenue Total Distribution Charge	Project Year         1         2           \$ 10,046         37,463           10,763         52,917           \$ 20,810         90,380
Table 7.1 - Profitability Index (PI) Inclusive of Section 36.2 Funding	
<u>Cash Inflow</u> Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue Total Revenue (A)	<u>Net Present Value</u>
Expenses: O&M Expense Municipal Tax Income Tax Total Expenses (B)	
Total Cash Inflow ( $C = A + B$ )	
<u>Cash Outflow</u> 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)	<u>1.00</u>

EB-2019-0255 Schedule Y2 Redacted

<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>
60,488	69,480	76,185	80,479	82,332	84,185	86,039	87,892	\$ 674,590
90,628	100,738	108,393	113,269	115,293	117,317	119,341	121,365	950,022
<u>151,116</u>	<u>170,219</u>	<u>184,578</u>	<u>193,747</u>	<u>197,625</u>	<u>201,502</u>	<u>205,379</u>	<u>209,257</u>	<u>\$ 1,624,612</u>

#### Community Expansion St. Charles InService Date: Nov-01-2023

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> 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 Y2 Redacted Schedule Y3 Enbridge Gas Community Expansion Project Proposal

St. Charles

Section 3.4 St Charles	Total Forecasted Customers	162		Penetration Rate	65%						Schedule Y3
Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	Estimated Annual Energy Costs (existing fuel)	Estimated Annual Energy Costs (natural gas)		Estimated Annual Savings	GHG per customer Existing Fuel	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community - Existing	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	34	21%	\$ 5,000	\$ 2,787	\$ 1,460	\$ 1,328	\$ 45,169	6.6	-2.4	223	(83)
Electricity F/A	15	9%	\$ 5,000	\$ 1,998	\$ 1,460	\$ 538	\$ 7,851	0.5	3.6	8	52
Electricity Baseboard	19	12%	\$ 12,000	\$ 1,998	\$ 1,460	\$ 538	\$ 10,468	0.5	3.6	10	70
Propane	71	44%	\$ 600	\$ 1,611	\$ 1,460	\$ 152	\$ 10,827	5.1	-1.0	364	(70)
Wood	15	9%	\$ 3,500	N/A	N/A	\$-	N/A	N/A	N/A	N/A	N/A
Other	8	5%	\$ 5,000	N/A	N/A	\$-	N/A				
Total	162	100%	\$ 31,100	\$ 8,395	\$ 5,838	\$ 2,557	\$ 74,316	12.7	3.8	605	(31

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/kWł				
Wood	-	-	-					

Emission Factor Sources:

Natural gas, heating oil and propane CO2 factors: Guideline for Quantification, Reporting and Verification of GHG Emissions - Ontario Ministry of Environment, Conservation and Parks Natural gas, heating oil and propane CH4 and N2O factors: Canada's Greenhouse Gas Quantification Requirements, December 2019 - Environment and Climate Change Canada Electricity factors: 2020 National Inventory Report (Part 3) - Environment and Climate Change Canada (using 2018 consumption intensity for Ontario) Estimated Annual GHG (tCO2e) = Emission Factors x Consumption Equivalent

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

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

Notes:

Gas prices correspond to EGI (Union Gas North West) April 2020 rates, including 23 cents per m3 SES charge

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

Electricity prices correspond to Hydro One (Med Density - R1) distribution rates implemented January 1, 2020 and includes the new Ontario Electricity Rebate (OER) The calculated annual savings vs electricity do not reflect the COVID-19 Emergency pricing which is effective for 45 days

Propane prices are currently unavailable for the Union North Rate zones.

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

# EB-2019-0255

Schedule Y4 Enbridge Gas Community Expansion Project Proposal

St. Charles
# St. Charles Community Expansion Project Pipeline Construction Schedule

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

Schedule Y5 Enbridge Gas Community Expansion Project Proposal

St. Charles



La Corporation de la Municipalité de / The Corporation of the Municipality of ST.CHARLES C.P. / Box 70, 2 King Street East St.-Charles ON POM 2W0 Tel: 705-867-2032 Fax: 705-867-5789 www.stcharlesontario.ca

# MOVED BY: Councillor Paul Branconnier

SECONDED BY: Councillor Richard Lemieux

### **RESOLUTION NO. 2020-53**

WHEREAS access to natural gas infrastructure is limited in parts of the Municipality of St.-Charles and increased access will provide more affordable and reliable energy;

AND WHEREAS expanding access to natural gas within the Municipality of St.-Charles is a key to residential, commercial, institutional and industrial growth supported by Council;

AND WHEREAS access to natural gas for residents, farms, commerce and institutions will provide an economic advantage;

AND WHEREAS natural gas access provides residents on higher-emitting fuels with a lower carbon energy source that will help reduce greenhouse gas emission;

BE IT RESOLVED that Council for the Corporation of the Municipality of St.-Charles formally supports an application submitted by Enbridge to the Government of Ontario, to the provincial Natural Gas Grant Program, to expand the natural gas system to service the Municipality of St.-Charles;

BE IT FURTHER RESOLVED that Council supports making a financial contribution towards the proposed project in an amount equivalent to the Municipality of St.-Charles property tax that would be recovered on the new natural gas infrastructure for a period of ten (10) years maximum as per the Natural Gas Grant program requirements;

BE IT FURTHER RESOLVED that a copy of this Resolution be forwarded along with the application to Ontario's Natural Gas Grant Program, Endbridge, John Vanthof MPP and Marc Serré MP.

### CARRIED

I, Tammy Godden, Clerk of the Municipality of St.-Charles, do certify the foregoing to be a true copy of Resolution No. 2020-53 passed in a Special Meeting

EB-2019-0255 Schedule Y5



La Corporation de la Municipalité de / The Corporation of the Municipality of ST.CHARLES

C.P. / Box 70, 2 King Street East St.-Charles ON Tel: 705-867-2032 Fax: 705-867-5789 www.s

P0M 2W0 www.stcharlesontario.ca

of Council of The Corporation of the Municipality of St.-Charles on the 18<sup>th</sup> day of March 2020.

Tammy Godden Clerk

Municipality of St.-Charles

Dated this 19<sup>th</sup> day of March 2020.

# Schedule Z 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: St. Isidore Community Expans	ion 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	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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

of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size.         Enbridge Gas is proposing to serve the community of St. Isidore in The Nation Municipality within the United Counties of Prescott and Russell. The proposed facilitie will provide access to natural gas to a forecasted 386 customers (309 residential, 62 commercial / institutional and 15 industrial).         The proposed tie-in of the NPS 6 polyethylene supply lateral is within the Village of Casselman on the intersection of and where a new station is proposed to cut the pressure for the distribution system in St. Isidore. The tie-in would bring gas 19 km from the existing system in Cassleman along to to The distribution system within St. Isid includes approximately 25 km of polyethylene pipe and facilities to bring gas of Isidore to the industrial customers near as well as of St. Isidore u to, and along to provide gas to various agricultural and residential.         The project requires reinforcement of the existing system at the outlet of the in the area of the City of Ottawa in order to support the demand of St. Isidore. The reinforcement includes 8.3 km of NPS 6 steel XHP pipe to the includes approximately as the programmer and the city of Ottawa in order to support the demand of St. Isidore.	Part II	I – Description of and Su	oport for Project												
Municipality within the United Counties of Prescott and Russell. The proposed facilitie will provide access to natural gas to a forecasted 386 customers (309 residential, 62 commercial / institutional and 15 industrial).         The proposed tie-in of the NPS 6 polyethylene supply lateral is within the Village of Casselman on the intersection of and where a new station is proposed to cut the pressure for the distribution system in St. Isidore. Tie-in would bring gas 19 km from the existing system in Cassleman along The distribution system within St. Isidore. The distribution system within St. Isidore to the industrial customers near as well as of St. Isidore to the industrial customers near as well as of St. Isidore to to, and along to provide gas to various agricultural and residential.         The project requires reinforcement of the existing system at the outlet of the area of the City of Ottawa in order to support the demand of St. Isidore. The reinforcement includes 8.3 km of NPS 6 steel XHP pipe to parallel existing NPS 6 facilities. Additionally, the will require a rebuild in order to support the increased capacity required of the station.         The approximate length and size of the supply laterals required: <u>Pipe Type Diameter (NPS) Length (m) HP Polyethylene 6 19,000          The approximate length and size of the distribution pipelines required:            <u>Pipe Type Diameter (NPS) Length (m) Steel 6 8,300          The approximate length and size of the distribution pipelines required:            <u>Pipe Type Diameter (NPS) Length (m) Steel 6 8,300          The approximate length and s</u></u></u>		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													
Casselman on the intersection of and		Municipality within the United Counties of Prescott and Russell. The proposed facilities will provide access to natural gas to a forecasted 386 customers (309 residential, 62													
		Casselman on the intersection of and where a new station is proposed to cut the pressure for the distribution system in St. Isidore. This													
agricultural and residential.         The project requires reinforcement of the existing system at the outlet of the        in thearea of the City of Ottawa in order to support the         demand of St. Isidore. The reinforcement includes 8.3 km of NPS 6 steel XHP pipe to         parallel existing NPS 6 facilities. Additionally, the will require         a rebuild in order to support the increased capacity required of the station.         The approximate length and size of the supply laterals required:         Pipe Type       Diameter (NPS)         Length (m)         HP Polyethylene       6         19,000         The approximate length and size of the reinforcement required:         Pipe Type       Diameter (NPS)         Length (m)         Steel       6         8,300         The approximate length and size of the distribution pipelines required:         Pipe Type       Diameter (NPS)         Length (m)         Steel       6         8,300         The approximate length and size of the distribution pipelines required:         Pipe Type       Diameter (NPS)         Length (m)       Polyethylene         2       17,000         Polyethylene       4         7,800       7,800    <		to The distribution system within St. Isidore includes approximately 25 km of polyethylene pipe and facilities to bring gas of St. Isidore to the industrial customers near as well as of St. Isidore up													
a rebuild in order to support the increased capacity required of the station.         The approximate length and size of the supply laterals required: <u>Pipe Type</u> Diameter (NPS)         Length (m)         HP Polyethylene       6         19,000         The approximate length and size of the reinforcement required: <u>Pipe Type</u> Diameter (NPS)         Length (m)         Steel       6         8,300         The approximate length and size of the distribution pipelines required: <u>Pipe Type</u> Diameter (NPS)         Length (m)         Steel       6         8,300		The project requires reinforcement of the existing system at the outlet of the in the area of the City of Ottawa in order to support the demand of St. Isidore. The reinforcement includes 8.3 km of NPS 6 steel XHP pipe to													
HP Polyethylene619,000The approximate length and size of the reinforcement required:Pipe TypeDiameter (NPS)Length (m)Steel68,300The approximate length and size of the distribution pipelines required:Pipe TypeDiameter (NPS)Length (m)Polyethylene217,000Polyethylene47,800															
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Pipe TypeDiameter (NPS)Length (m)Steel68,300The approximate length and size of the distribution pipelines required:Pipe TypeDiameter (NPS)Length (m)Polyethylene217,000Polyethylene47,800															
Steel68,300The approximate length and size of the distribution pipelines required:Pipe TypeDiameter (NPS)Length (m)Polyethylene217,000Polyethylene47,800															
Pipe TypeDiameter (NPS)Length (m)Polyethylene217,000Polyethylene47,800															
Polyethylene217,000Polyethylene47,800		The approximate length and	size of the distribution pip	pelines required:											
Polyethylene 4 7,800		Pipe Type	Diameter (NPS)	Length (m)											
				· · · · · · · · · · · · · · · · · · ·											
			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 Z2, Table 3.2.
3.3	Provide the annual and cumulative forecast of volumes (in m <sup>3</sup> ) 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 m <sup>3</sup> 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 Z2, 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 Z3, 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 Z4 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 Z5.
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 Z6 for Enbridge's CPCN for The Nation Municipality (EB-2007-0059) that covers all of The Nation Municipality and the entire area of the proposed project.
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 Z2, 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         Tear 10         Tear 10         Tear 10											
	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 Z2, Table 4.3.											

Part V	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$27,535,894
	Please refer to Schedule Z2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$71,337
	Please refer to Schedule Z2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$9.78
	Please refer to Schedule Z2, Table 5.3.

Par	t 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 Z2, 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 Z2, Table 7.1.
7.2	<ul> <li>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.</li> <li>Please refer to Schedule Z2, Table 7.2.</li> </ul>

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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule Z4.

# Schedule Z1 Enbridge Gas Community Expansion Project Proposal

EB-2019-0255 Schedule Z1 Redacted



# Schedule Z2 Enbridge Gas Community Expansion Project Proposal

## Community Expansion St. Isidore

InService Date: Nov-01-2023

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

	1 on ou												
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		83	75	29	20	15	19	16	19	17	16	309
Commercial	Firm		-	24	9	4	4	1	1	1	1	1	46
Institutional	Firm		-	1	-	-	-	-	-	-	-	-	1
Agricultural	Firm		-	7	5	3	-	-	-	-	-	-	15
Industrial	Firm		-	5	3	1	1	1	1	1	1	1	15
Total Customers			<u>83</u>	<u>112</u>	<u>46</u>	<u>28</u>	<u>20</u>	<u>21</u>	<u>18</u>	<u>21</u>	<u>19</u>	<u>18</u>	<u>386</u>
Cumulative Customers			83	195	241	269	289	310	328	349	368	386	

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

		Annual 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		97,077	281,631	402,647	459,765	500,924	540,883	582,042	623,201	665,560	704,319	4,858,045
Commercial		-	44,200	106,900	135,300	155,100	166,200	168,600	171,000	173,400	175,800	1,296,500
Institutional		-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
Agricultural		-	83,600	239,600	373,200	434,400	434,400	434,400	434,400	434,400	434,400	3,302,800
Industrial		-	250,000	650,000	850,000	950,000	1,050,000	1,150,000	1,250,000	1,350,000	1,450,000	8,950,000
Total Volumes		<u>97,077</u>	<u>684,431</u>	<u>1,449,147</u>	<u>1,868,265</u>	<u>2,090,424</u>	<u>2,241,483</u>	<u>2,385,042</u>	<u>2,528,601</u>	<u>2,673,360</u>	<u>2,814,519</u>	<u>18,832,345</u>

						Cumul	ative 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		97,077	378,708	781,355	1,241,119	1,742,043	2,282,925	2,864,967	3,488,167	4,153,727	4,858,045
Commercial		-	44,200	151,100	286,400	441,500	607,700	776,300	947,300	1,120,700	1,296,500
Institutional		-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000
Agricultural		-	83,600	323,200	696,400	1,130,800	1,565,200	1,999,600	2,434,000	2,868,400	3,302,800
Industrial		-	250,000	900,000	1,750,000	2,700,000	3,750,000	4,900,000	6,150,000	7,500,000	8,950,000
Total Volumes	_	<u>97,077</u>	<u>781,508</u>	<u>2,230,655</u>	<u>4,098,919</u>	<u>6,189,343</u>	<u>8,430,825</u>	<u>10,815,867</u>	<u>13,344,467</u>	<u>16,017,827</u>	18,832,345

## 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 Z2 Redacted



# Community Expansion St. Isidore

InService Date: Nov-01-2023

									-	
Table 5.1 - Total Amount of Section 36.2 Funding										
	<b>4</b>									
Section 36.2 Funding Needed to Support the Project	\$ 27,5	535,894								
Table 5.2 - Section 36.2 Funding Amount Per Customer Served										
Section 36.2 Funding Amount Per Customer Served		Year 10 71,337								
Table 5.3 - Section 36.2 Funding Amount Per Volume (m3)										
		Year 10								
Section 36.2 Funding Amount Per Volume (m3)	\$	9.78								
Table 6.1 - Distribution Charge										
	Project Year	1 4		<u>4</u>	<u>5</u>	<u>6</u>	<u>Z</u>	<u>8</u>	<u>9</u>	<u>10</u> <u>Total</u>
Distribution Revenue	\$	17,278 85,223		197,927	219,198	234,309	247,722	261,135	274,758	287,751 \$ 1,985,619
SES Revenue		22,328 157,419		429,701	480,797	515,541	548,560	581,578	614,873	647,339 4,331,439
Total Distribution Charge	<u>\$</u>	<u>39,605</u> <u>242,642</u>	<u>493,622</u>	<u>627,628</u>	<u>699,995</u>	<u>749,850</u>	<u>796,282</u>	<u>842,713</u>	<u>889,631</u>	<u>935,090</u> <u>\$ 6,317,058</u>
Table 7.1 - Profitability Index (PI) Inclusive of Section 36.2 Funding										
	Net Present Value	9								
Cash Inflow	<u></u>	-								
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)		<u>1.00</u>								

EB-2019-0255 Schedule Z2 Redacted

# Community Expansion St. Isidore

InService Date: Nov-01-2023

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> Gross Capital Change in Working Capital Total Cash Outflow (D)

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



EB-2019-0255 Schedule Z2 Redacted

# Schedule Z3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 St. Isidore	Total Forecasted Customers	386		Penetration Rate	65%						Schedule Z3
Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	Estimated Annual Energy Costs (existing fuel)	Estimated Annual Energy Costs (natural gas)		Estimated Annual Savings	GHG per customer · is +ve/decreased GHG GHG - Total		<ul> <li>Estimated Annual</li> <li>GHG - Total</li> <li>Community - Existing</li> </ul>	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	81	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 127,244	7.2	-2.7	7 581	(217)
Electricity F/A	35	9%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 24,542	0.6	3.9	9 20	136
Electricity Baseboard	46	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 32,723	0.6	3.9	9 27	181
Propane	170	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 48,120	5.6	-1.1	1 949	(185)
Wood	35	9%	\$ 3,500	N/A	N/A	\$-	N/A	N/A	N/A	A N/A	N/A
Other	19	5%	\$ 5,000	N/A	N/A	\$-	N/A				
Total	386	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 232,629	13.9	4.1	1,578	(85)

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	55 tonnes/m3
Heating Oil	2725 g/L	0.006 g/L	0.031 g/L	0.00273438	38 tonnes/L
Propane	1510 g/L	0.024 g/L	0.108 g/L	0.00154278	34 tonnes/L
Electricity	30 g/kWh	-	-	0.0000	03 tonnes/kWh
Wood	-	-	-	-	-

Emission Factor Sources:

Natural gas, heating oil and propane CO2 factors: Guideline for Quantification, Reporting and Verification of GHG Emissions - Ontario Ministry of Environment, Conservation and Parks Natural gas, heating oil and propane CH4 and N2O factors: Canada's Greenhouse Gas Quantification Requirements, December 2019 - Environment and Climate Change Canada Electricity factors: 2020 National Inventory Report (Part 3) - Environment and Climate Change Canada (using 2018 consumption intensity for Ontario) Estimated Annual GHG (tCO2e) = Emission Factors x Consumption Equivalent

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

	Ra	ate 1 (Community Expansior	n, Non-FN)		
	Consumption Equivale	ent		Price per Un	it
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 m<sup>3</sup> 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.

# EB-2019-0255

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

# Schedule Z4 Enbridge Gas Community Expansion Project Proposal

# St. Isidore Community Expansion Project Pipeline Construction Schedule

Task Nama				2022					2023								2024																	
Task Name	Jan	Feb	Mar	Apr	May .	Jun J	lul A	lug Se	ep Oo	ct No	v Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov De
Environmental Assessments																																		
Permits & Approvals																																		
Leave to Construct Application and Approval																																		
Pre-Construction, Construction and Testing																																		
In Service																																		

# Schedule Z5 Enbridge Gas Community Expansion Project Proposal



March 4, 2020

Dear Mr Ian Ross P.

**Re: Expression of Support for Natural Gas Expansion to** *The NATION MUNICIPALITY /* Servicing the town of St-Isidore project, (Priority 1)

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 NATION MUNICIPALITY*, I would like to formally express our interest to have <u>Servicing the town of St-Isidore project</u> 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,

4 Amour

François St-Amour Mayor The Nation Municipality 613-764-5444 Francois.St-Amour@nationmun.ca

# Schedule Z6 Enbridge Gas Community Expansion Project Proposal

## EB-2007-0059

# **Certificate of Public Convenience and Necessity**

The Ontario Energy Board hereby grants

## Enbridge Gas Distribution Inc.

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

## **The Nation Municipality**

This certificate replaces the certificate associated with the former Township of Cambridge that is now within The Nation Municipality.

DATED at Toronto, May 1, 2007

ONTARIO ENERGY BOARD

Original signed by

Neil McKay Manager, Facilities Applications Schedule AA Enbridge Gas Community Expansion Project Proposal

Williamsford and McCullough Lake

### 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: Williamsford and McCullough	Lake Community Expansion Project
Address of Head Office:	Telephone Number:
50 Keil Drive North	519-436-4600
Chatham, ON N7M 5M1	010 400 4000
Name of Individual to Contact:	Office Telephone Number:
	519-436-5325
Patrick McMahon	Cell Phone Number:
	519-437-0759
	Email Address:
	patrick.mcmahon@enbridge.com

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

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

A proponent that is not currently rate-regulated as a natural gas distributor by the OEB and that has multiple proposed projects is only required to provide the information in this Part once, unless the proponent has different organizational or financial structure approaches for its projects. In that case, the information in this Part must be provided for each different organizational or financing structure.

Part	II – Description of Proponent's Technical Expertise and Financial Capability
2.1	Describe the proponent's technical expertise to develop, construct, operate and maintain a natural gas distribution system. N/A
2.2	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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 I	I – Description of and Su	pport for Project	
3.1 Redacted	would serve any on-rese	to be connected, incluerve Indigenous commessidential, commercia	uding whether the project nunities; existing population I/institutional and industrial
	Grey County. The propos	North Saugeen River in ed facilities will provide	ties of Williamsford and the Township of Chatsworth in access to natural gas to a commercial / institutional).
	west of Williamsford on This tie-in will bring ga distribution systems of Wil	as from the existing Ow lliamsford and McCullou	in the Township of Chatsworth just of ven Sound Line into the ugh Lake using approximately 5 plex since the line operates at
	Williamsford crosses the N km of NPS 2 polyethylene	North Saugeen River an pipe. The distribution s S 2 polyethylene pipe.	The distribution system within nd includes approximately 5.6 system in McCullough Lake is Phase 5 of the Owen Sound
	The approximate length a	nd size of the supply lat	terals required:
	Pipe Type Plastic	Diameter (NPS) 2	Length (m) 5,000
	The approximate length a	nd size of the distributio	on pipelines required:
	Pipe Type Polyethylene	Diameter (NPS) 2	Length (m) 7,625
	Please refer to Schedule	AA1 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 AA2, Table 3.2.
3.3	Provide the annual and cumulative forecast of volumes (in m <sup>3</sup> ) 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 m <sup>3</sup> 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 AA2, 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 AA3, 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 AA4 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 AA5.
3.7	<ul> <li>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.</li> <li>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.</li> <li>Please refer to Schedule AA6.</li> </ul>
Part	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 o upstream reinforcement co period (i.e., year ten).		•			
	Where applicable, the inflat average GDP IPI FDD. For in use the OEB-prescribed int (CWIP).	nterest duri	ng construc	ction, the pr	oponent is to	
	For projects proposing to u infrastructure and other as the total project capital cos	sociated co	•		-	
	Include any upstream reinform To the extent that the reinform proposed project are mater the utility has estimated for the incumbent utility must is exist and explain the reason	orcement co ially differe another pr identify in it	osts for an in nt from the oponent's p s filing that	ncumbent u reinforcem project in th	itility's ent costs that e same area,	
	Please refer to Schedule AA2	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 inflat average GDP IPI FDD. For in use the OEB-prescribed int (CWIP).	nterest duri	ng construc	ction, the p	oponent is to	
1						

Part V	Part V – Section 36.2 Funding		
5.1	Provide the total amount of section 36.2 funding needed to support the project.		
	\$5,945,819 Please refer to Schodulo AA2, Table 5.1		
	Please refer to Schedule AA2, Table 5.1.		
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.		
	\$33,783		
	Please refer to Schedule AA2, Table 5.2.		
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.		
	\$17.00		
	Please refer to Schedule AA2, Table 5.3.		

Part V	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 AA2, 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 AA2, Table 7.1.	
	riedse leier to Schedule AAZ, 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 AA2, 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		
	<ul> <li>System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)</li> </ul>		
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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule AA4.		
## Schedule AA1 Enbridge Gas Community Expansion Project Proposal

Williamsford and McCullough Lake

EB-2019-0255 Schedule AA1 Redacted

Williamsford and McCullough Lake



## Schedule AA2 Enbridge Gas Community Expansion Project Proposal

Williamsford and McCullough Lake

#### Community Expansion Williamsford and McCullough Lake InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period	

- Customer Attachments Over The Rate Stability Period													
Customer Type	<u>Firm / IT</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	Firm		51	38	25	12	12	5	6	6	6	6	167
Commercial	Firm		-	4	2	1	1	-	-	-	-	-	8
Institutional	Firm		-	-	-	-	-	-	-	-	-	-	-
Agricultural	Firm		-	1	-	-	-	-	-	-	-	-	1
Industrial	Firm		-	-	-	-	-	-	-	-	-	-	-
Total Customers			<u>51</u>	<u>43</u>	<u>27</u>	<u>13</u>	<u>13</u>	<u>5</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>176</u>
Cumulative Customers			51	94	121	134	147	152	158	164	170	176	

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

Customer Type	Project Year	1	<u>2</u>	
Residential		47,740	131,010	1
Commercial		-	5,800	
Institutional		-	-	
Agricultural		-	10,000	
Industrial		-	-	
Total Volumes		<u>47,740</u>	<u>146,810</u>	2

		Cumulative 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>
Residential		47,740	178,750	368,610	592,900	839,410	1,102,008	1,375,138	1,659,378	1,954,728	2,261,188
Commercial		-	5,800	21,000	40,900	63,000	86,200	109,400	132,600	155,800	179,000
Institutional		-	-	-	-	-	-	-	-	-	-
Agricultural		-	10,000	30,000	50,000	70,000	90,000	110,000	130,000	150,000	170,000
Industrial		-	-	-	-	-	-	-	-	-	-
Total Volumes		<u>47,740</u>	<u>194,550</u>	<u>419,610</u>	<u>683,800</u>	<u>972,410</u>	<u>1,278,208</u>	<u>1,594,538</u>	<u>1,921,978</u>	<u>2,260,528</u>	<u>2,610,188</u>

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

Total Capital Costs	I	<u>Year 10</u>	
Table 4.3 - Revenue Requirement Over The Rate Stability Period			
Revenue Requirement	Project Year	<u>1</u>	<u>2</u>
Closing Rate Base (net of proposed Section 36.2 funding)	I	<u>Year 10</u>	

## EB-2019-0255 Schedule AA2 Redacted

		Annual Vo	lumes - m3					
<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>Z</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
189,860	224,290	246,510	262,598	273,130	284,240	295,350	306,460	2,261,188
15,200	19,900	22,100	23,200	23,200	23,200	23,200	23,200	179,000
-	-	-	-	-	-	-	-	-
20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	170,000
-	-	-	-	-	-	-	-	-
<u>225,060</u>	<u>264,190</u>	<u>288,610</u>	<u>305,798</u>	<u>316,330</u>	<u>327,440</u>	<u>338,550</u>	<u>349,660</u>	<u>2,610,188</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>

#### Community Expansion Williamsford and McCullough Lake InService Date: Nov-01-2023

Table 5.1 - Total	Amount of Section 36.2 Funding		
	Section 36.2 Funding Needed to Support the Project	<u>\$ 5,945,81</u>	<u>19</u>
Table 5.2 - Section	on 36.2 Funding Amount Per Customer Served		
	Section 36.2 Funding Amount Per Customer Served	<mark>¥ear</mark> \$ 33,78	
Table 5.3 - Section	on 36.2 Funding Amount Per Volume (m3)		
	Section 36.2 Funding Amount Per Year 10 Volume (m3)	<mark>⊻ear</mark> \$ 17.0	
Table 6.1 - Distri	ibution Charge		
	Distribution Revenue	Project Year \$ 8,08	<b><u>1</u> <u>2</u> 30 23,275</b>
	SES Revenue Total Distribution Charge	\$ 0,00 10,98 <u>\$ 19,06</u>	30 33,766
Fable 7.1 - Profit		<u>    10,98</u> <u>\$    19,06</u>	30 33,766
Table 7.1 - Profit	Total Distribution Charge	10,98	30 33,766
Table 7.1 - Profit	Total Distribution Charge tability Index (PI) Inclusive of Section 36.2 Funding <u>Cash Inflow</u> Revenue: Distribution Revenue System Expansion Surcharge (SES) Revenue	<u>    10,98</u> <u>\$    19,06</u>	30 33,766
Table 7.1 - Profit	Total Distribution Charge tability 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	<u>    10,98</u> <u>\$    19,06</u>	30 33,766
Table 7.1 - Profit	Total Distribution Charge tability 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)	<u>    10,98</u> <u>\$    19,06</u>	30 33,766
Table 7.1 - Profit	Total Distribution Charge         tability 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	<u>    10,98</u> <u>\$    19,06</u>	30 <u>33,766</u> 50 <u>57,041</u>

EB-2019-0255 Schedule AA2 Redacted

<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>
34,715	41,099	45,221	48,082	49,832	51,729	53,627	55,524	\$ 411,183
51,764	60,764	66,380	70,333	72,756	75,311	77,867	80,422	600,343
<u>86,478</u>	<u>101,863</u>	<u>111,601</u>	<u>118,416</u>	<u>122,588</u>	<u>127,041</u>	<u>131,493</u>	<u>135,946</u>	<u>\$ 1,011,526</u>

#### Community Expansion Williamsford and McCullough Lake InService Date: Nov-01-2023

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> 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 AA2 Redacted

## Schedule AA3 Enbridge Gas Community Expansion Project Proposal

Williamsford and McCullough Lake

#### Section 3.4 Williamsford and McCullough Lake **Total Forecasted Customers**

176

**Penetration Rate** 

74%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	Estimated Annual Energy Costs (existing fuel)	Estimated Annual Energy Costs (natural gas)	Estimated Annual Savings per customer	Estimated Annual Savings	Estimated Annual GHG per customer - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	16	9%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 24,499	6.7	-2.5	104	(39)
Electricity F/A	12	7%									44
Electricity Baseboard	8	4%	\$ 12,000	\$ 1,626	\$ 1,258	\$ 368	\$ 2,869	0.5	3.6	4	28
Propane	105	59%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 38,524	5.2	-1.1	. 543	(111)
Wood	31	18%	\$ 3,500	N/A	N/A	\$-	N/A	N/A	N/A	N/A	N/A
Other	4	3%	\$ 5,000	N/A	N/A	\$-	N/A				
Total	176	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 75,332	12.9	3.6	657	(78)

1 Based on completed Market Research for this community. Fuel percentages may not add up to 100% due to rounding error.

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

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

Emission Factor Sources:

Natural gas, heating oil and propane CO2 factors: Guideline for Quantification, Reporting and Verification of GHG Emissions - Ontario Ministry of Environment, Conservation and Parks Natural gas, heating oil and propane CH4 and N2O factors: Canada's Greenhouse Gas Quantification Requirements, December 2019 - Environment and Climate Change Canada Electricity factors: 2020 National Inventory Report (Part 3) - Environment and Climate Change Canada (using 2018 consumption intensity for Ontario) Estimated Annual GHG (tCO2e) = Emission Factors x Consumption Equivalent

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

	Rate 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.

#### EB-2019-0255 Schedule AA3

## Schedule AA4 Enbridge Gas Community Expansion Project Proposal

Williamsford and McCullough Lake

# Williamsford and McCullough Lake Community Expansion Project Pipeline Construction Schedule

Task Name		2022						2023								2024																				
Task Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	ΙΝον	v Dec	Jan	Feb	Mar	Apr	May	/ Jun	Jul	Au	g 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 AA5 Enbridge Gas Community Expansion Project Proposal

Williamsford and McCullough Lake



316837 Highway 6, RR 1 Chatsworth, Ontario N0H 1G0 Telephone 519-794-3232 - Fax 519-794-4499

Via email murray.costello@enbridge.com

Murray Costello, P. Eng. Director, Southeast Operations Enbridge Gas Inc.

Dear Mr. Costello,

RE: Expression of Support for natural Gas Expansion to McCullough Lake

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, specifically in the areas of McCullough Lake and Williamsford.

On behalf of the Township of Chatsworth, I would like to formally express our interest to have these two areas 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 (eb2019-0255), WE ARE AWARE THAT Enbridge Gas Inc. may be required to include support for the proposed project from Band Council(s) and/por 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,

Patty Sinnamon, Dipl.M.M. CAO Clerk Township of Chatsworth Email: <u>psinnamon@chatsworth.ca</u>

## Schedule AA6 Enbridge Gas Community Expansion Project Proposal

Williamsford and McCullough Lake

#### EB-2008-0081

# **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 Chatsworth**

This Certificate of Public Convenience and Necessity replaces those parts of Certificate E.B.C. 29 relating to the former Village of Chatsworth, the former Township of Holland and the former Township of Sullivan.

DATED at Toronto, May 23, 2008

ONTARIO ENERGY BOARD

Original Signed By

Neil McKay Manager - Facilities

## Schedule BB 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: Wroxeter, Gorrie and Fordwic	ch 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

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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	<ul> <li>Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following: <ul> <li>Current credit rating of the proponent, its parent or associated companies.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>
	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

	II – Description of and Su			
3.1	Provide a general overvi	iew of the project, wh	ich is to include the	
Redacted	following: communities			piect
	would serve any on-rese			
	of each community by re			
	sectors; routing; length			ustrial
	sectors, routing, length	or pipeline, and nom	inal pipe size.	
	Enbridge Gas is proposing to	o sorve the communities	of Wroviotor, Corris and	Fordwich in
	the Township of Howick with			
	to natural gas to a forecaste	<i>,</i> ,	• •	
	institutional and 2 industrial)	•		
	The proposed tie-in of the st	eel supply lateral is in W	incham at the intersection	n of
	and Thi			
	along	and	_, into the distribution system	stems of
	the three communities. A to	tal of four stations are pr	, into the distribution sys	iect: one
	station in Wroxeter on			
	intersection of	and	and two stations in Fordw	vich with
	one on near			
	and The dis			
	Maitland River waterway at 8			
	pipe. One segment of steel			
	required to reinforce the exis			
		sting eyetenii		
	The approximate length and	size of the supply latera	ls required:	
		,	•	
	Pipe Type	Diameter (NPS)	Length (m)	
	Steel	4	10,870	
	Steel	6	7,100	
		•	· · · · · · · · · · · · · · · · · · ·	
	The approximate length and	size of the reinforcemen	nt required:	
			•	
	Pipe Type	Diameter (NPS)	Length (m)	
	Steel	10	9,700	
	The approximate length and	size of the distribution p	ipelines required:	
		· · · · · · · · · · · ·		
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	2	28,000	
	Polyethylene	4	925	
	Please refer to Schedule I	RB1 for Project Man		
				3

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 BB2, Table 3.2.
3.3	Provide the annual and cumulative forecast of volumes (in m <sup>3</sup> ) 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 m <sup>3</sup> 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 BB2, 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 BB3, 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 BB4 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 BB5.
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 BB6 for Enbridge's CPCN for the Township of Howick (EBC 290) that covers all of the Township of Howick and the entire area of the proposed project.
Part	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 BB2, 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												
	DescriptionYear 1Year 2Year 10TotalRevenue Requirement </td												
	DescriptionYear 10Closing 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 BB2, 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.
	\$38,450,594
	Please refer to Schedule BB2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$68,662
	Please refer to Schedule BB2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m <sup>3</sup> ) in year ten of the project.
	\$24.24
	Please refer to Schedule BB2, 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 BB2, 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	<ul> <li>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.</li> <li>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).</li> <li>Please refer to Schedule BB2, Table 7.1.</li> </ul>
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 BB2, Table 7.2.

Part V	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									
	<ul> <li>System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)</li> </ul>									
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 <u>website</u> and where applicable assume a written hearing process. Please refer to Schedule BB4.									

## Schedule BB1 Enbridge Gas Community Expansion Project Proposal

EB-2019-0255 Schedule BB1 Redacted

## Wroxeter / Gorrie / Forwich



## Schedule BB2 Enbridge Gas Community Expansion Project Proposal

#### Community Expansion Wroxeter Gorrie Fordwich InService Date: Nov-01-2023

# Table 3.2 - Customer Attachments Over The Rate Stability Period

Customer Attachments Over the Nate Stability Feriou													
Customer Type	<u>Firm / IT</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	Firm		153	114	76	38	38	15	15	15	15	15	494
Commercial	Firm		-	30	10	6	5	2	2	1	1	1	58
Institutional	Firm		-	1	-	-	-	-	-	-	-	-	1
Agricultural	Firm		-	2	2	1	-	-	-	-	-	-	5
Industrial	Firm		-	1	1	-	-	-	-	-	-	-	2
Total Customers			<u>153</u>	<u>148</u>	<u>89</u>	<u>45</u>	<u>43</u>	<u>17</u>	<u>17</u>	<u>16</u>	<u>16</u>	<u>16</u>	<u>560</u>
Cumulative Customers			153	301	390	435	478	495	512	528	544	560	

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

					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>
	166,816	458,391	666,430	791,189	874,148	932,127	965,127	998,127	1,031,127	1,064,127	7,947,608
	-	54,500	130,600	168,000	194,600	209,000	216,200	220,900	223,100	225,300	1,642,200
	-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
	-	11,100	33,300	45,500	46,600	46,600	46,600	46,600	46,600	46,600	369,500
	-	50,000	150,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,600,000
	<u>166,816</u>	<u>598,991</u>	<u>1,030,330</u>	<u>1,254,689</u>	<u>1,365,348</u>	<u>1,437,727</u>	1,477,927	<u>1,515,627</u>	<u>1,550,827</u>	1,586,027	<u>11,984,308</u>
	Project Year	166,816 - - - -	166,816 458,391 - 54,500 - 25,000 - 11,100 - 50,000	166,816         458,391         666,430           -         54,500         130,600           -         25,000         50,000           -         11,100         33,300           -         50,000         150,000	166,816         458,391         666,430         791,189           -         54,500         130,600         168,000           -         25,000         50,000         50,000           -         11,100         33,300         45,500           -         50,000         150,000         200,000	Project Year         1         2         3         4         5           166,816         458,391         666,430         791,189         874,148           -         54,500         130,600         168,000         194,600           -         25,000         50,000         50,000         50,000           -         11,100         33,300         45,500         46,600           -         50,000         150,000         200,000	166,816         458,391         666,430         791,189         874,148         932,127           -         54,500         130,600         168,000         194,600         209,000           -         25,000         50,000         50,000         50,000         50,000           -         11,100         33,300         45,500         46,600         46,600           -         50,000         150,000         200,000         200,000         200,000	Project Year         1         2         3         4         5         6         7           166,816         458,391         666,430         791,189         874,148         932,127         965,127           -         54,500         130,600         168,000         194,600         209,000         216,200           -         25,000         50,000         50,000         50,000         50,000         50,000           -         11,100         33,300         45,500         46,600         46,600         46,600           -         50,000         150,000         200,000         200,000         200,000         200,000	Project Year         1         2         3         4         5         6         7         8           166,816         458,391         666,430         791,189         874,148         932,127         965,127         998,127           -         54,500         130,600         168,000         194,600         209,000         216,200         220,900           -         25,000         50,000         50,000         50,000         50,000         50,000         50,000           -         11,100         33,300         45,500         46,600         46,600         46,600         46,600           -         50,000         150,000         200,000         200,000         200,000         200,000         200,000         200,000	Project Year         1         2         3         4         5         6         7         8         9           166,816         458,391         666,430         791,189         874,148         932,127         965,127         998,127         1,031,127           -         54,500         130,600         168,000         194,600         209,000         216,200         220,900         223,100           -         25,000         50,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000	Project Year         1         2         3         4         5         6         7         8         9         10           166,816         458,391         666,430         791,189         874,148         932,127         965,127         998,127         1,031,127         1,064,127           -         54,500         130,600         168,000         194,600         209,000         216,200         220,900         223,100         225,300           -         25,000         50,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000         200,000

						Cumulative	Volumes - m	3			
Customer Type	Project Year	1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>Z</u>	<u>8</u>	<u>9</u>	<u>10</u>
Residential		166,816	625,207	1,291,637	2,082,825	2,956,973	3,889,100	4,854,227	5,852,354	6,883,481	7,947,608
Commercial		-	54,500	185,100	353,100	547,700	756,700	972,900	1,193,800	1,416,900	1,642,200
Institutional		-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000
Agricultural		-	11,100	44,400	89,900	136,500	183,100	229,700	276,300	322,900	369,500
Industrial		-	50,000	200,000	400,000	600,000	800,000	1,000,000	1,200,000	1,400,000	1,600,000
Total Volumes		<u>166,816</u>	<u>765,807</u>	<u>1,796,137</u>	<u>3,050,825</u>	<u>4,416,173</u>	<u>5,853,900</u>	<u>7,331,827</u>	<u>8,847,454</u>	<u>10,398,281</u>	<u>11,984,308</u>

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

Total Capital Costs	<u>Year 10</u>										
Table 4.3 - Revenue Requirement Over The Rate Stability Period											
Revenue Requirement	Project Year <u>1</u>	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	Z	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
Closing Rate Base (net of proposed Section 36.2 funding)	<u>Year 10</u>										

## EB-2019-0255 Schedule BB2 Redacted

#### Community Expansion Wroxeter Gorrie Fordwich InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding		
Section 36.2 Funding Needed to Support the Project	<u>\$ 38,450,594</u>	
	<u> </u>	
Table 5.2 - Section 36.2 Funding Amount Per Customer Served		
	Veer 40	
Section 36.2 Funding Amount Per Customer Served	<u>Year 10</u> \$ 68,662	
Table 5.3 - Section 36.2 Funding Amount Per Volume (m3)		
	Year 10	
Section 36.2 Funding Amount Per Year 10 Volume (m3)	\$ 24.24	
Table 6.1 - Distribution Charge		
	Project Year <u>1</u>	2
Distribution Revenue	<u>Project Year</u> <u>1</u> \$ 24,944	2 77,139
SES Revenue	38,368	137,768
Total Distribution Charge	\$ 63,312	214,907
Fable 7.1 - Profitability Index (PI) Inclusive of Section 36.2 Funding	Net Present Value	
Cash Inflow		
Revenue:		
Distribution Revenue		
System Expansion Surcharge (SES) Revenue		
Total Revenue (A)		
Expenses:		
O&M Expense		
Municipal Tax		
Income Tax		
Total Expenses (B)		
Total Cash Inflow ( $C = A + B$ )		
Cash Outflow		
Gross Capital		
Proposed Section 36.2 Funding		
Change in Working Capital		
Total Cash Outflow (D)		
Profitability Index (PI) Inclusive of Section 36.2 Funding (C / D)	<u>1.00</u>	

EB-2019-0255 Schedule BB2 Redacted

<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>
121,066	145,338	160,091	170,067	175,698	181,126	186,353	191,579	\$ 1,433,401
236,976	288,578	314,030	330,677	339,923	348,594	356,690	364,786	2,756,391
<u>358,042</u>	<u>433,916</u>	<u>474,121</u>	<u>500,744</u>	<u>515,621</u>	<u>529,721</u>	<u>543,043</u>	<u>556,365</u>	<u>\$ 4,189,792</u>

#### Community Expansion Wroxeter Gorrie Fordwich InService Date: Nov-01-2023

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

<u>Cash Inflow</u> 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)

<u>Cash Outflow</u> 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 BB2 Redacted

## Schedule BB3 Enbridge Gas Community Expansion Project Proposal

#### Section 3.4 Wroxeter, Gorrie, Fordwich

Total	Forecasted Customers	560	Penetration Rate	58%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	Estimated Annual Energy Costs (existing fuel)	Estimated Annual Energy Costs (natural gas)	Estimated Annual Savings per customer	Estimated Annual Savings	Estimated Annual GHG per customer - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	68	12%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 106,422	6.7	-2.5	451	(171)
Electricity F/A	54	10%	\$ 5,000	\$ 2,028	\$ 1,258	\$ 770	\$ 41,750	0.5	3.6	29	
Electricity Baseboard	50	9%	\$ 12,000	\$ 1,626	\$ 1,258	\$ 368	\$ 18,277	0.5	3.6	27	178
Propane	325	58%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 119,633	5.2	-1.1	1,685	(344)
Wood	54	10%	\$ 3,500	N/A	N/A	\$-	N/A	N/A	N/A	N/A	N/A
Other	9	2%	\$ 5,000	N/A	N/A	\$-	N/A				
Total	560	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 286,082	12.9	3.6	2,192	(143)

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.

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

**Emission Factor Sources:** 

Natural gas, heating oil and propane CO2 factors: Guideline for Quantification, Reporting and Verification of GHG Emissions - Ontario Ministry of Environment, Conservation and Parks Natural gas, heating oil and propane CH4 and N2O factors: Canada's Greenhouse Gas Quantification Requirements, December 2019 - Environment and Climate Change Canada Electricity factors: 2020 National Inventory Report (Part 3) - Environment and Climate Change Canada (using 2018 consumption intensity for Ontario) Estimated Annual GHG (tCO2e) = Emission Factors x Consumption Equivalent

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

	Rate	e M1 (Community Expansior	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.

#### EB-2019-0255 Schedule BB3

## Schedule BB4 Enbridge Gas Community Expansion Project Proposal

# Wroxeter, Gorrie and Fordwich Community Expansion Project Pipeline Construction Schedule

Task Nama		2022								2023										2024																
Task Name	Jan	Feb	Mar	Apr	May J	un	Jul	Aug S	Sep C	Oct N	Nov [	Dec Ja	an F	eb N	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 BB5 Enbridge Gas Community Expansion Project Proposal



44816 Harriston Road, RR 1, Gorrie On N0G 1X0 Tel: 519-335-3208 Fax: 519-335-6208 www.howick.ca

March 4, 2020

Enbridge Att'n: Murray Costello, P. Eng. Director, Southeast Operations 603 Kumpf Drive, Waterloo, ON N2J 4A4

Dear Mr. Costello:

#### Re: Expression of Support for Natural Gas Expansion to Howick Township

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 Howick Township, I would like to formally express our interest to have the Villages of Fordwich, Gorrie and Wroxeter in the Township of Howick 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.

Yours truly,

Coy Ah

Doug Harding, Reeve Township of Howick

## Schedule BB6 Enbridge Gas Community Expansion Project Proposal

Ontario Energy Board Commission de l'Énergie de l'Ontario EB-2019-0255 Schedule BB6



**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 a certificate of public convenience and necessity to construct works to supply gas to the inhabitants of the Township of Howick.

**BEFORE:** G. A. Dominy Presiding Member and Vice Chair

> J. B. Simon Member

#### **ORDER GRANTING**

#### A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

Union Gas Limited ("Union") filed with the Ontario Energy Board ("the Board") an Application dated December 18, 1998, ("the Application") under section 8 of the Municipal Franchises Act, R.S.O. 1990, c. M. 55, as amended, for a certificate of public convenience and necessity to construct works to supply gas in the Township of Howick in the County of Huron. The Application was assigned file number E.B.C. 290.

Union served and published the Board's Notices of Application and Notices of Written Hearing. The Board has considered the submissions of Board staff and Union in this matter. The Board finds the Application to be in the public interest.

# THEREFORE, THE BOARD ORDERS THAT:

- A Certificate of Public Convenience and Necessity is granted to Union to construct works to supply gas in the Township of Howick.
- 2. If Union fails to substantially complete construction of the gas mains proposed in the Application within twenty-four months following the issuance of the Board's certificate, the Certificate shall expire.
- Construction of the gas works proposed in the evidence supporting the Application is subject to the Undertakings listed in Appendix "A" attached to this Order.
- Union is directed to pay the Board's costs of and incidental to these proceedings, immediately upon receipt of the Board's invoice.

DATED at Toronto June 9, 1999.

ONTARIO ENERGY BOARD

Peter H. O'Dell Assistant Board Secretary

## APPENDIX 'A' TO

#### BOARD ORDER NO. E.B.C. 290

DATED June 9, 1999.

Peter/H. O'Dell Assistant Board Secretary