# Schedule NNNN 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: Township of Alberton Community Expan	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> <li>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.</li> </ul>

Part II	I – Description of and Sup	port for Project								
3.1 Redacted	Provide a general overvious following: communities to									
	would serve any on-rese									
	of each community by residential, commercial/institutional and industrial									
	sectors; routing; length of	of pipeline; and nom	ninal pipe size.							
	Enbridge Gas is proposing to proposed facilities will provide residential, 3 commercial / instance of the commercial in	e access to natural gas	to a forecasted 72 cus							
	The proposed project will tie-	in to an existing 4" poly	ethylene pipe along							
	between									
	existing 2" polyethylene pipe	near the intersection of	f and							
	The first segment of the prop	osed facilities will run _	along							
	to, providing se service to	ervice to	, and then further	to provide						
	service to	and T	he second segment wil	l run						
	along from the	intersection of	and	to						
	partially continue	on	_ along							
	A summary of proposed distribution piping is listed below:									
	Pipe Type	Diameter (NPS)	Length (m)							
	Polyethylene	2	16,100							
	Polyethylene	4	8,300							
	Please refer to Schedule N	INNN1 for Project Ma	ıp.							
3.2	Provide the annual and cattachments over the ten commercial/institutional Indicate for each custom would be firm or interrup	-year rate stability p and industrial secto er type whether the	period by residential ors for each commu	, nity.						
	Please refer to Schedule N	INNN2, Table 3.2.								

3.3	Provide the annual and cumulative forecast of volumes (in m³) over the ten- year rate stability period by residential, commercial/institutional and industrial sectors for each community.
	For the residential segment, the default value for the average consumption level is 2,200 m³ per year. A proponent that has more accurate information regarding the annual consumption for residential customers in a given community may use that value, in which case it must explain how it has determined that it is more accurate than the default.
	Please refer to Schedule NNNN2, 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 NNNN3, 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 NNNN4 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 NNNN5.

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 NNNN6 for Enbridge's CPCN for the Township of Alberton (EBC 151) which covers the entire area of the proposed project.

#### Part IV – Cost of Project

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

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

4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten).

Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).

For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs.

Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences.

Please refer to Schedule NNNN2, 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 NNNN2, 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.
	\$9,895,573
	Please refer to Schedule NNNN2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$137,439
	Please refer to Schedule NNNN2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$27.91
	Please refer to Schedule NNNN2, Table 5.3.

#### Part VI – Distribution Charge

Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.

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

Please refer to Schedule NNNN2, Table 6.1.

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

#### Part VII – Profitability Index / Benefit to Cost Ratio

Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.

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

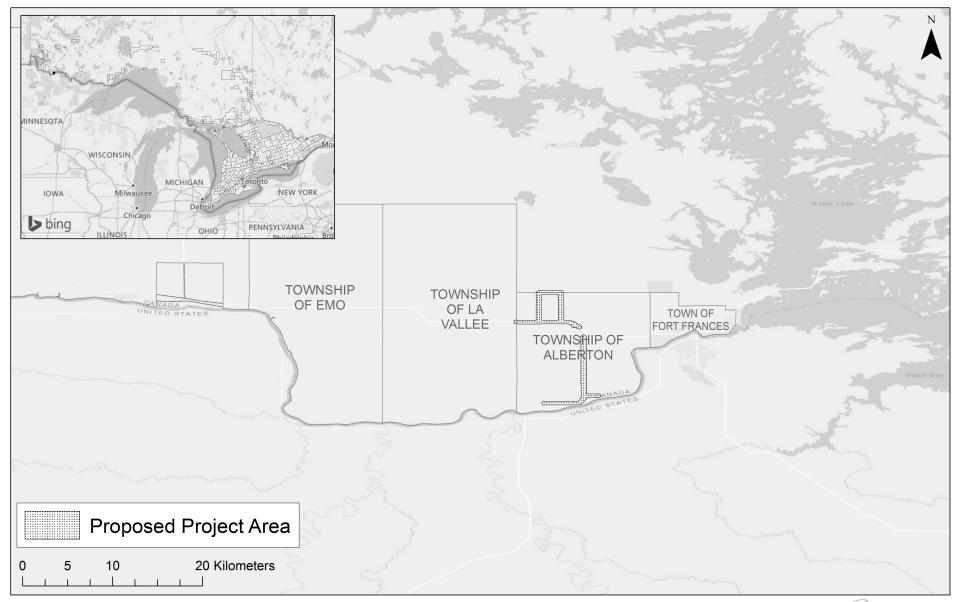
Please refer to Schedule NNNN2, Table 7.1.

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

Please refer to Schedule NNNN2, Table 7.2.

# 

# Schedule NNNN1 Enbridge Gas Community Expansion Project Proposal





# Schedule NNNN2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Township of Alberton

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Peri
---

Firm / IT
Firm

**Cumulative Customers** 

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

#### **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

#### **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

**Total Capital Costs** 

### Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule NNNN2 Redacted

<b>Project Year</b>	1	<b>2</b> 15	<u>3</u>	4	<u>5</u>	<u>6</u> 3	<u>7</u>	<u>8</u> 2	<b>9</b> 2	<u>10</u> 2	<u>Total</u> 67
	21	15 2	10	5	5	3	2	2	2	2	67 3
	-	2	-	-	-	-	-	-	-	-	3
	-	-	-	-	-	-	-	-	-	-	-
	_	1	1	_	-	_	-	-	-	-	2
-	<u>21</u>	<u>18</u>	<u>12</u>	<u>5</u>	<u>5</u>	<u>3</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>72</u>
	21	39	51	56	61	64	66	68	70	72	
					Annual V	/olumes - m3					
Project Year	1	<u>2</u>	3	4	5 <u>5</u>	<u>6</u>	<u>Z</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
<u> </u>	23,100	62,700	90,200	106,700	117,700	126,500	132,000	136,400	140,800	145,200	1,081,300
	-	3,600	8,300	9,400	9,400	9,400	9,400	9,400	9,400	9,400	77,700
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
_	-	50,000	150,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,600,000
	<u>23,100</u>	<u>116,300</u>	<u>248,500</u>	<u>316,100</u>	<u>327,100</u>	<u>335,900</u>	<u>341,400</u>	<u>345,800</u>	<u>350,200</u>	<u>354,600</u>	<u>2,759,000</u>
					Cumulative	e Volumes - m	3				
Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	
	23,100	85,800	176,000	282,700	400,400	526,900	658,900	795,300	936,100	1,081,300	
	-	3,600	11,900	21,300	30,700	40,100	49,500	58,900	68,300	77,700	
	-	-	-	-	-	-	-	-	-	-	
	-	- F0 000	200.000	400.000	-	-	1 000 000	1 200 000	1 400 000	1 600 000	
-	22 100	50,000	200,000	400,000	600,000	800,000	1,000,000	1,200,000	1,400,000	1,600,000	
	<u>23,100</u>	<u>139,400</u>	<u>387,900</u>	<u>704,000</u>	<u>1,031,100</u>	<u>1,367,000</u>	<u>1,708,400</u>	<u>2,054,200</u>	<u>2,404,400</u>	<u>2,759,000</u>	





Year 10

**Community Expansion** Township of Alberton

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue

SES Revenue

Total Distribution Charge

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

Cash Inflow Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

EB-2019-0255 Schedule NNNN2 Redacted

\$ 9,895,573

<u>Year 10</u> 137,439

**Year 10** 27.91

Project '

t 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>
	\$ 4,865	17,610	31,858	39,383	41,700	43,553	44,711	45,638	46,565	47,491	\$ 363,374
_	5,313	26,749	57,155	72,703	75,233	77,257	78,522	79,534	80,546	81,558	634,570
_	\$ 10,178	<u>44,359</u>	<u>89,013</u>	<u>112,086</u>	<u>116,933</u>	<u>120,810</u>	<u>123,233</u>	<u>125,172</u>	<u>127,111</u>	<u>129,049</u>	\$ 997,944

Net Present Value







<u>1.00</u>

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value









EB-2019-0255 Schedule NNNN2 Redacted

# Schedule NNNN3 Enbridge Gas Community Expansion Project Proposal

#### Section 3.4 Township of Alberton

Total Forecasted Customers 72 Penetration Rate 65%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	(existing file)	Estimated Annual Energy Costs (natural gas)		Estimated Annual Saving	GHG per customer	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	15	21%	\$ 5,000	\$ 2,787	\$ 1,495	\$ 1,292	\$ 19,53	6.6	-2.4	99	(37)
Electricity F/A	6	9%	\$ 5,000	\$ 1,998	\$ 1,495	\$ 503	\$ 3,25	0.5	3.6	3	23
Electricity Baseboard	9	12%	\$ 12,000	\$ 1,998	\$ 1,495	\$ 503	\$ 4,34	0.5	3.6	5	31
Propane	32	44%	\$ 600	\$ 1,611	\$ 1,495	\$ 116	\$ 3,68	5.1	-1.0	162	(31)
Wood	6	9%	\$ 3,500	N/A	N/A	\$ -	N/	NA NA	NA	NA NA	NA
Other	4	5%	\$ 5,000	N/A	N/A	\$ -	N/	A			
Total	72	100%	\$ 31,100	\$ 8,395	\$ 5,981	\$ 2,414	\$ 30,82	12.7	3.8	269	(14)

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

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

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

#### **Emission Factor Sources:**

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

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

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

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

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

	Rate	e 01 (Community Expansion	n, Non-FN)		
	Consumption Equivale	ent		Price per Uni	it
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.680
Heating oil	L	2397	Heating oil	\$/L	1.163
Electricity	kWh	17778	Electricity	\$/kWh	0.112
Propane	L	3309	Propane	\$/L	0.487

#### Notes

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

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

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

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

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

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

# Schedule NNNN4 Enbridge Gas Community Expansion Project Proposal

# Township of Alberton Community Expansion Project Pipeline Construction Schedule

Task Nama		2022				2023							2024																							
Task Name		Feb	Mai	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan F	eb N	1ar A	pr Ma	y Ju	n Ju	ul A	ug S	ep C	ct N	lov [	)ec	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 NNNN5 Enbridge Gas Community Expansion Project Proposal



# The Corporation of the Township of Alberton

Corner of Hwy 11/71 & Hwy 611 South - Mailing Address: RR #1 - B2, 3 Hwy 611 S, Fort Frances, Ontario, P9A 3M2

Telephone: 807-274-6053 Fax: 807-274-8449 e-mail: alberton@jam21.net website: www.alberton.ca

May 13, 2020

Enbridge Gas Inc. 36 Charles Street North Bay, Ontario P1B 8K7

ATTENTION: MR. LUKE SKAARUP

Director, Northern Region Operations

Dear Sir:

Re: Expression of Support for Natural Gas Expansion in Alberton, Ontario

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

On behalf of Council for the Township of Alberton, I would like to formally express our interest to have the Alberton Natural Gas Expansion Initiative included in the list of projects being proposed by Enbridge Gas 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), I confirm that Council is aware that Enbridge Gas Inc. may be required to include confirmation of support for the proposed project from Band Councils(s) and/or local governments, as applicable, demonstrated through a written expression of support and/or a commitment to financial support in its project submissions.

Alberton Council previously demonstrated its support and commitment for expansion by passing Resolution #2017-99, a copy of which is attached. Current Council has confirmed its continuing support in this regard, as is evidenced by Resolution #2020-121, a copy of which is attached.

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

Thank you for your time.

Yours truly,

Mike Ford, Reeve



# THE CORPORATION OF THE TOWNSHIP OF ALBERTON

Session Date:	May 10, 2017	Resolution No.: 2017 - 99
Moved By:	rel	Seconded By:
TT DECOM		

#### BE IT RESOLVED THAT:

WHEREAS the Province has announced the launch of the \$100 million Natural Gas Grant Program to help expand natural gas access to more communities in Ontario;

AND WHEREAS the purpose of the *Natural Gas Grant Program* is to help improve energy affordability and support economic development, including for farms and agribusinesses in rural Ontario, by helping build new natural gas infrastructure;

NOW THEREFORE Council for the Township of Alberton hereby confirms that it is supportive of projects to provide expansion of access to natural gas throughout the municipality, irrespective of the distributor or supplier proposing to do so;

AND FURTHER THAT, subject to potential reversal of this decision by the municipal Council to be elected in 2018 should such expansion project not be approved and commenced prior to the 2018 elected members of Council taking office in 2018, Council for the Township of Alberton hereby:

- undertakes to make a financial contribution to any natural gas expansion project in the Township of Alberton that is approved by the Ontario Energy Board under the Natural Gas Grant Program, which financial contribution will be, at a minimum, equivalent to the property tax that otherwise would be paid to the Township on the new natural gas infrastructure built under the Natural Gas Grant Program; and
- 2. confirms that such financial contribution would continue for a period of 10 years beginning on the date that property taxes in respect of such new natural gas infrastructure would normally first become due to the Township.

Pecuniary Interest	Recorded Vote	Council Member	Nay	Yea
		HAMMOND, Mike		
		FORD, Mike		
-		JOHNSON, Jennifer		
		SPUZAK, Peter		
		WOODS, Wayne		

Michael REEVE

CARRIED:

DEFEATED:



# THE CORPORATION OF THE TOWNSHIP OF ALBERTON

Session Date:	May 13, 2020	Resolution No.:	2020 - 121	
Moved By:	"DIANE GLOWASKI"	Seconded By:	"TOUNIFER	JOHNSON

#### BE IT RESOLVED THAT:

WHEREAS the Province of Ontario has announced plans to further increase access to natural gas by making financial support available for new expansion projects;

AND WHEREAS the *Natural Gas Expansion Program* offers an opportunity to drive economic development and enhance the quality of life and prosperity of families and businesses in Ontario;

AND WHEREAS Council is aware that a municipal contribution to the project, being an amount equivalent to the municipal portion of property taxes that would be imposed on the new infrastructure being built for a period of ten years from the date of construction, will demonstrate Council's support for the proposed expansion project;

**NOW THEREFORE** Council for the Township of Alberton confirms its continued support for expansion of natural gas services in the Township of Alberton;

AND FURTHER THAT Reeve Mike Ford is hereby to sign a letter to Enbridge on behalf of Council in the form attached, and that same be submitted by the Township to the Enbridge Northern Region Operations Director to enable the Director to submit to the Ontario Energy Board a gas expansion project proposal in the Township of Alberton;

AND FURTHER THAT Council for the Township of Alberton hereby confirms that it confirms and continues Resolution #2017-99 passed by former Alberton Council on May 10, 2017 to waive municipal taxes on the expansion for a period of ten years, a copy of which is attached.

Pecuniary Interest	Recorded Vote	Council Member	Nay	Yea
	✓	FORD, Mike		
	✓	GLOWASKY, Diane		1/
	✓	JOHNSON, Jennifer		V
	✓	SPENCE, Shawn		
$\leq$	✓	SPUZAK, Peter		i de la companya della companya della companya de la companya della companya dell

DEEVE

CARRIED:

2

KEEVE

DEFEATED:

# Schedule NNNN6 Enbridge Gas Community Expansion Project Proposal



Untano Energy Board

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

> AND IN THE MATTER OF an application by Inter-City Gas Corporation for a Certificate of Public Convenience and Necessity to construct works to supply gas and to supply gas to the inhabitants of the Corporation of the Township of Alberton in the District of Rainy River.

BEFORE: O. J. Cook Presiding Member C. A. Wolf Jr. July 14, 1987 Member C. U. Craddock Member

#### CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

UPON the application of Inter-City Gas Corporation ("Inter-City") dated October 17, 1984, (the "Application") to the Ontario Energy Board (the "Board") for a Certificate of Public Convenience and Necessity to construct works to supply gas and to supply gas in certain parts of the Corporation of the Township of Alberton ("Alberton");

AND UPON a Notice of Franchise and Certificate Application and Hearing having been published in the Fort Frances Times, and served on the Clerk of Alberton and the present customers, and an answer having been filed by the solicitor for Alberton;

AND UPON the Application having been heard in Toronto on April 30, 1987, and July 14, 1987, in the presence of counsel for Inter-City and for ICG Utilities (Ontario) Ltd and Special Counsel for Board Staff, no one else appearing;

AND UPON THE BOARD having delivered an oral decision at the conclusion of the hearing and finding that the public convenience and necessity requires that approval be given to Inter-City to construct works to supply gas and to supply gas in certain parts of Alberton;

#### IT IS THEREFORE ORDERED THAT:

1. This Certificate of Public Convenience and Necessity is granted to Inter-City to construct works to supply gas and to supply gas in certain parts of the Corporation of the Township of Alberton.

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

ISSUED at Toronto this 5th day of October, 1987.

ONTARIO ENERGY BOARD

Peter H. O'Dell

Acting Board Secretary

# Schedule OOOO Enbridge Gas Community Expansion Project Proposal

Ameliasburgh and Rossmore

# 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: Ameliasburgh and Rossmore Commi	Project Name: Ameliasburgh and Rossmore 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> <li>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.</li> </ul>

Part I	II – Description of and Su	pport for Project	
3.1 Redacted	Provide a general overvi following: communities would serve any on-rese of each community by re	ew of the project, which i to be connected, includin erve Indigenous communi esidential, commercial/ins of pipeline; and nominal p	g whether the project ties; existing population stitutional and industrial
	Ameliasburgh and Rossmore The proposed pipeline system	o provide gas distribution serve within the single-tier municipm will provide natural gas to a cial / institutional, 1 intensive a	ality Prince Edward County. forecasted 778 customers
	connecting to an existing	I be near the intersection of3" steel pipeline. The propos yethylene pipe, 4,700 m of 4"	
	alongto	and include part of	to and then and to to,
		,,,	
		s (13,000 m of 6" steel pipe in nent) are required to accommo	one segment and 1,600 m of odate additional loads for the
	existing medium size station		ed near the intersection of pe located at the intersection of
		. The third station will be loca	
		The fourth station will be lo	
	and and	The fifth station will be loca	ated at the intersection of
		size of the distribution pipelin	es required:
	Pipe Type	Diameter (NPS)	Length (m)
	Polyethylene	2	27,900
	The approximate length and	size of the reinforcement requ	uired:
	Pipe Type	Diameter (NPS)	Length (m)
	Steel	6	13,000
	Steel	6	1,600

The approximate length and size of the supply laterals required:

Pipe Type	Diameter (NPS)	Length (m)
Polyethylene	4	4,700
Steel	4	18,700

Please refer to Schedule OOOO1 for Project Map.

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

Please refer to Schedule OOOO2, Table 3.2.

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

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

Please refer to Schedule OOOO2, Table 3.3.

Provide the estimated conversion costs to convert each of the existing heating systems (e.g., propane forced air, oil forced air, electric forced air and electric baseboard) and water-heating systems (e.g., electric, oil and propane) to natural gas. To the extent available, provide information on the current proportion of customers on each type of heating system.

Provide the estimated annual costs of the existing alternative fuels relative to natural gas, including the annual savings with natural gas. The calculation of household energy costs for natural gas should include conversion costs, commodity costs, associated upstream transportation costs to Ontario, incremental CNG and LNG costs (where applicable), costs under the federal *Greenhouse Gas Pollution Pricing Act* and distribution costs. The assessment of household energy cost impacts should include greenhouse gas (GHG) emission estimates (whether positive or negative) related to converting existing heating and water heating systems to natural gas. The major assumptions (e.g., conversion factors) used in the calculations must also be provided.

Please refer to Schedule OOOO3, 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 OOOO4 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 OOOO5.
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 OOOO6 for Enbridge's CPCN for Prince Edward County (RP-2003-0175 / EB-2003-0217) which covers the entire area of the proposed project.
	V – Cost of Project
4.1	Confirm that the proposed project includes a ten-year rate stability period.
	The proposed project does include a ten-year rate stability period.

4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten).

Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).

For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs.

Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences.

Please refer to Schedule OOOO2, 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 OOOO2, Table 4.3.

Part \	Part V – Section 36.2 Funding	
5.1	Provide the total amount of section 36.2 funding needed to support the project.	
	\$38,840,800	
	Please refer to Schedule OOOO2, Table 5.1.	
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.	
	\$49,924	
	Please refer to Schedule OOOO2, Table 5.2.	
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.	
	\$15.97	
	Please refer to Schedule OOOO2, 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 OOOO2, Table 6.1.	
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.	

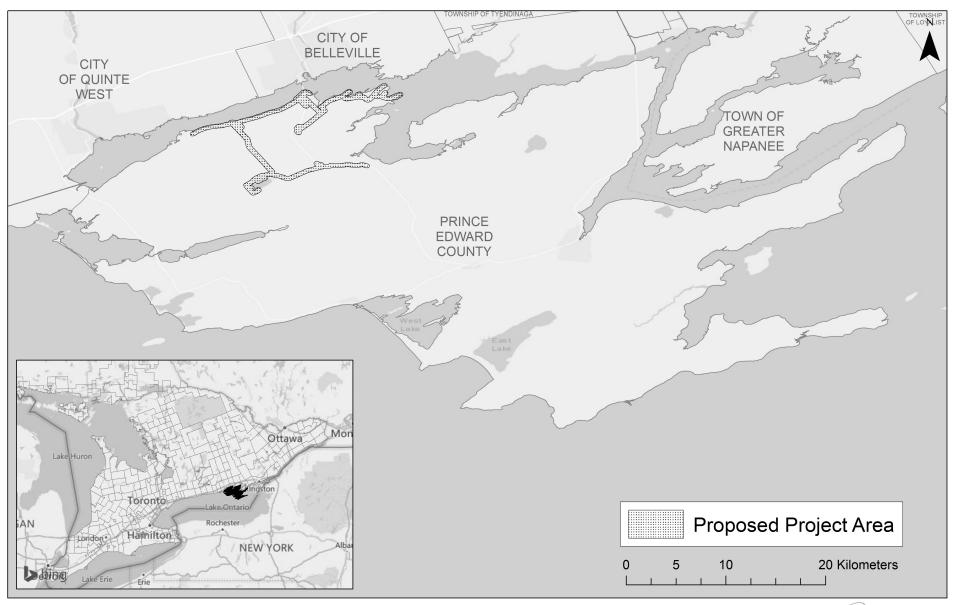
Part \	Part VII – Profitability Index / Benefit to Cost Ratio	
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.	
	The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a "portfolio" of projects).	
	Please refer to Schedule OOOO2, 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 OOOO2, 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	
	System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)	
8.2	For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB's website and where applicable assume a written hearing process.  Please refer to Schedule OOOO4.	

#### Schedule OOOO1 Enbridge Gas Community Expansion Project Proposal

Ameliasburgh and Rossmore

### Ameliasburgh, Rossmore





#### Schedule OOOO2 Enbridge Gas Community Expansion Project Proposal

Ameliasburgh and Rossmore

#### **Community Expansion** Ameliasburgh and Rossmore

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Sta	ability Period
--	----------------

**Cumulative Customers** 

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

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

#### Customer Type

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

#### **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

**Total Capital Costs** 

#### Table 4.3 - Revenue Requirement Over The Rate Stability Period

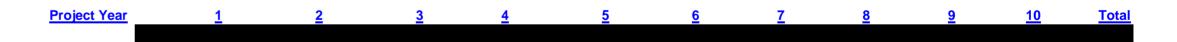
Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule OOOO2 Redacted

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>
	228	171	114	<u>4</u> 57	<u>5</u> 57	<u>6</u> 23	<u>7</u> 23	<b>8</b> 23	9 23	10 23	742
	-	16	6	3	2	-	-	-	-	-	27
	-	2	-	-	-	-	-	-	-	-	2
	-	1	-	-	-	-	-	-	-	-	1
_	-	4	2								6
	<u>228</u>	<u>194</u>	<u>122</u>	<u>60</u>	<u>59</u>	<u>23</u>	<u>23</u>	<u>23</u>	<u>23</u>	<u>23</u>	<u>778</u>
	228	422	544	604	663	686	709	732	755	778	
					Annual \	Volumes - m3					
<b>Project Year</b>	<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>
	250,800	689,700	1,003,200	1,191,300	1,316,700	1,404,700	1,455,300	1,505,900	1,556,500	1,607,100	11,981,200
	-	38,800	89,500	106,100	113,000	115,200	115,200	115,200	115,200	115,200	923,400
	-	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
	-	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85,000
	-	200,000	500,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	4,900,000
	<u>250,800</u>	<u>983,500</u>	<u>1,702,700</u>	2,007,400	<u>2,139,700</u>	2,229,900	2,280,500	<u>2,331,100</u>	<u>2,381,700</u>	2,432,300	18,739,600
					Cumulativ	e Volumes - n	13				
Project Year	1	2	<u>3</u>	4	<u>5</u>	6	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	
<u>rroject rear</u>	250,800	940,500	1,943,700	3,135,000	4,451,700	5,856,400	7,311,700	8,817,600	10,374,100	11,981,200	
	200,000	38,800	128,300	234,400	347,400	462,600	577,800	693,000	808,200	923,400	
	_	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000	
	_	5,000	15,000	25,000	35,000	45,000	55,000	65,000	75,000	85,000	
	_	200,000	700,000	1,300,000	1,900,000	2,500,000	3,100,000	3,700,000	4,300,000	4,900,000	
	<u>250,800</u>	1,234,300	<u>2,937,000</u>	4,944,400	<u>7,084,100</u>	9,314,000	11,594,500	13,925,600	16,307,300	18,739,600	





Year 10

**Community Expansion** Ameliasburgh and Rossmore InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue

Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

EB-2019-0255 Schedule OOOO2 Redacted

\$ 38,840,800

<u>Year 10</u> 49,924

Year 10

15.97

**Project Year** 322,344 401,002 411,658 \$ 3,120,434 52,819 171,083 272,424 350,036 369,033 379,689 390,345 57,684 226,205 391,621 461,702 492,131 512,877 524,515 536,153 547,791 559,429 4,310,108 110,503 397,288 664,045 784,046 842,167 881,910 904,204 926,498 948,793 971,087 \$ 7,430,542

Net Present Value







<u>1.00</u>

Page 2 of 3

**Community Expansion** Ameliasburgh and Rossmore InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value





Redacted

Schedule OOOO2

EB-2019-0255

#### Schedule OOOO3 Enbridge Gas Community Expansion Project Proposal

Ameliasburgh and Rossmore

#### Section 3.4 Ameliasburgh and Rossmore

Total Forecasted Customers 778 Penetration Rate 65%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	lexisting fuell	Estimated Annual Energy Costs (natural gas)	Estimated Annual Savings per customer	Estimated Annual Savings	GHG per customer	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	163	21%	\$ 5,000	\$ 2,787	\$ 1,495	\$ 1,292	\$ 211,101	6.6	-2.4	1,071	(397)
Electricity F/A	70	9%	\$ 5,000	\$ 1,998	\$ 1,495	\$ 503	\$ 35,211	0.5	3.6	37	251
Electricity Baseboard	93	12%	\$ 12,000	\$ 1,998	\$ 1,495	\$ 503	\$ 46,948	0.5	3.6	50	335
Propane	342	44%	\$ 600	\$ 1,611	\$ 1,495	\$ 116	\$ 39,799	5.1	-1.0	1,748	(336)
Wood	70	9%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	39	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	778	100%	\$ 31,100	\$ 8,395	\$ 5,981	\$ 2,414	\$ 333,059	12.7	3.8	2,906	(147)

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

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

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

#### **Emission Factor Sources:**

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

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

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

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

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

	Rate 01 (Community Expansion, Non-FN)										
	Consumption Equival		Price per Unit								
Gas	m3	2200	Gas (incl. fixed)	\$/m3	0.680						
Heating oil	L	2397	Heating oil	\$/L	1.163						
Electricity	kWh	17778	Electricity	\$/kWh	0.112						
Propane	L	3309	Propane	\$/L	0.487						

#### Notes:

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

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

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

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

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

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

#### Schedule OOOO4 Enbridge Gas Community Expansion Project Proposal

Ameliasburgh and Rossmore

# Ameliasburgh and Rossmore Community Expansion Project Pipeline Construction Schedule

Tools No man		2022						2023								2024																			
Task Name	Jan	Feb	Mai	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov [	Эес	Jan F	eb M	ar Ap	r 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 OOOO5 Enbridge Gas Community Expansion Project Proposal

Ameliasburgh and Rossmore



#### **Chief Administrative Officer**

The Corporation of the County of Prince Edward Office: 332 Picton Main Street, Picton, ON K0K 2T0 Mailing: 332 Picton Main Street, Picton, ON K0K 2T0 T: 613.476.2148 x 1003 | F: 613.476-476-5727 mwallace@pecounty.on.ca | www.thecounty.ca

May 25, 2020

Dear REGIONAL DIRECTOR,

Re: Expression of Support for Natural Gas Expansion to Rossmore, Prince Edward County

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 County of Prince Edward, I would like to formally express our interest to have Rossmore Natural Gas Expansion 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. The Corporation of the County of Prince Edward supports this project moving forward.

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,

Marcia Wallace, PhD, RPP Chief Administrative Officer



#### **Chief Administrative Officer**

The Corporation of the County of Prince Edward Office: 332 Picton Main Street, Picton, ON K0K 2T0 Mailing: 332 Picton Main Street, Picton, ON K0K 2T0 T: 613.476.2148 x 1003 | F: 613.476-476-5727 mwallace@pecounty.on.ca | www.thecounty.ca

June 30, 2020

Dear Regional Director,

Re: Expression of Support for Natural Gas Expansion to Cherry Valley, Ameliasburgh and Consecon, Prince Edward County

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 County of Prince Edward, I would like to formally express our interest to have Cherry Valley Natural Gas Expansion, Ameliasburgh Natural Gas Expansion and Consecon Natural Gas Expansion 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 The Corporation of the County of Prince Edward supports this project moving forward.

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,

Sincerely,

Marcia Wallace, PhD, RPP Chief Administrative Officer

#### Schedule OOOO6 Enbridge Gas Community Expansion Project Proposal

Ameliasburgh and Rossmore

Commission de l'Energie de l'Ontario



RP-2003-0175
EB-2003-0217

2

Sity

3

4

5

M.55, to construct works

7

8

#### 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

#### **County of Prince Edward.**

This the certificates replaces the certificates of the former municipalities that are now within the geographic area of the County of Prince Edward.

DocID: OEB: 12XCQ-0

#### 9

ONTARIO ENERGY BOARD

Paul B. Pudge Assistant Secretary

#### Schedule PPPP Enbridge Gas Community Expansion Project Proposal

Benmiller (Ashfield-Colborne-Wawanosh)

### 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: Benmiller (Ashfield-Colborne-Wawanosl	h) Community Expansion Project					
. reject tame. Berminer (remora delective travariosis	The second secon					
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> <li>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.</li> </ul>

Part II	I – Description of and Su	pport for Project		
3.1	Provide a general overvi	ew of the project, whic	h is to include the	
Redacted	following: communities	to be connected, includ	ling whether the project	
			inities; existing population	
			institutional and industrial	
	sectors; routing; length			
	, ,	• •	• •	
	Enbridge Gas is proposing to	o provide gas distribution se	ervice in the community of	
	Benmiller within the Townsh	ip of Ashfield-Colborne-Wa	wanosh. The proposed facilities	
	will provide access to natura		stomers (55 residential, 6	
	commercial / institutional and	d 1 industrial).		
	<del>-</del>		,	
	The proposed tie-in point wil			
			line. The proposed distribution	
			and 7,210 m of 4" polyethylene	
		•	_ via to	
	,	_,,, and _		
		, and _		
	There will be no reinforceme	ent required to accommodat	e additional loads for the system	١.
	An existing station requires u			
	and the second s	.,		
	The approximate length and	size of the distribution pipe	elines required:	
			·	
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	2	3,480	
	The approximate length and	size of the supply laterals	required:	
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	4	7,210	
	Please refer to Schedule I	PPPP1 for Project Map.		
3.2	Provide the annual and	cumulative forecast of t	he number of customer	
	attachments over the ter	n-year rate stability peri	iod by residential,	
	commercial/institutional	and industrial sectors	for each community.	
	Indicate for each custon			
	would be firm or interrup		receive to the provided	
	would be in in or interrup	Stibie.		
	Please refer to Schedule I	PPP2 Table 3.2		
	i lease refer to scriedule i	TITZ, TADIC J.Z.		

3.3	Provide the annual and cumulative forecast of volumes (in m³) over the ten- year rate stability period by residential, commercial/institutional and industrial sectors for each community.
	For the residential segment, the default value for the average consumption level is 2,200 m³ per year. A proponent that has more accurate information regarding the annual consumption for residential customers in a given community may use that value, in which case it must explain how it has determined that it is more accurate than the default.
	Please refer to Schedule PPPP2, 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 PPPP3, 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 PPPP4 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 PPPP5.

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 PPPP6 for Enbridge's CPCN for the Township of Ashfield-Colborne-Wawanosh (RP-2002-0117 / EB-2002-0327) which covers the entire area of the proposed project.

#### Part IV – Cost of Project

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

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

4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten).

Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).

For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs.

Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences.

Please refer to Schedule PPPP2, 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 PPPP2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$5,733,161  Please refer to Schedule PPPP2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$92,470
	Please refer to Schedule PPPP2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$23.80
	Please refer to Schedule PPPP2, Table 5.3.

#### Part VI – Distribution Charge

Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.

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

Please refer to Schedule PPPP2, Table 6.1.

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

#### Part VII - Profitability Index / Benefit to Cost Ratio

Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.

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

Please refer to Schedule PPPP2, Table 7.1.

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

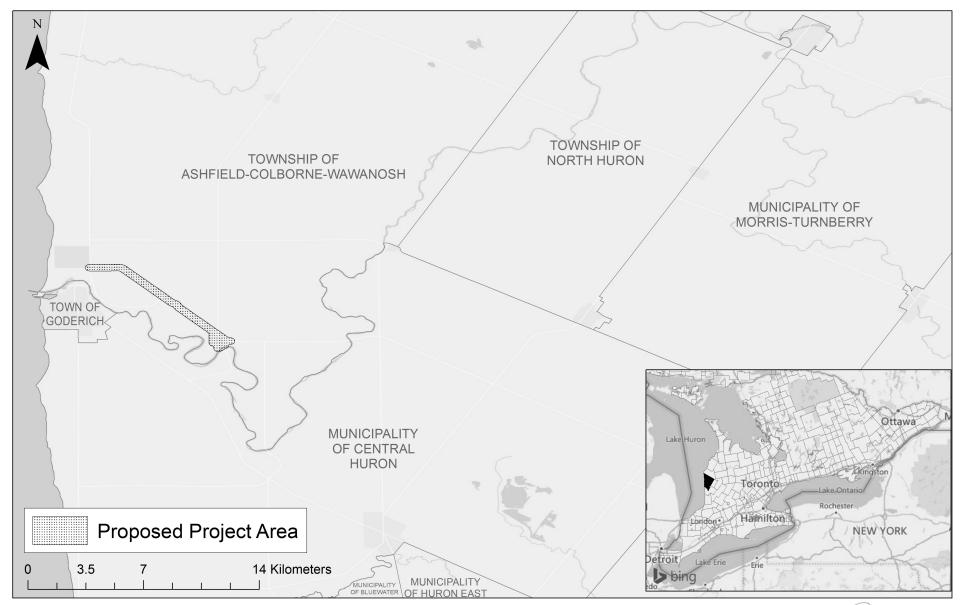
Please refer to Schedule PPPP2, Table 7.2.

#### 

#### Schedule PPPP1 Enbridge Gas Community Expansion Project Proposal

Benmiller (Ashfield-Colborne-Wawanosh)

### Benmiller





## Schedule PPPP2 Enbridge Gas Community Expansion Project Proposal

Benmiller (Ashfield-Colborne-Wawanosh)

#### Community Expansion Benmiller (Ashfield-Colborne-Wawanosh)

InService Date: Nov-01-2023

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

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

**Cumulative Customers** 

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

#### **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

#### **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

**Total Capital Costs** 

#### Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule PPPP2 Redacted

Project Year	<u>1</u>	<u>2</u>	<u>3</u> 9	<u>4</u>	<u>5</u> 4	<u>6</u> 2	<u>7</u> 2	<u>8</u> 2	<u>9</u>	<u>10</u>	<u>Total</u>										
	17	11		6	4	2	2	2	1	1	55										
	-	3	2	-	-	-	-	-	-	-	5										
	-	-	-	-	-	-	-	-	-	-	-										
	-	1	-	-	-	-	-	-	-	-	1										
_	<u>-</u> <u>17</u>	1 16	<u>-</u> <u>11</u>	<u> </u>	- 1	<u> </u>	- 2	- 2	- 1	<u>-</u>	62										
	<u>17</u>	<u>10</u>	<u>11</u>	<u>u</u>	<u>4</u>	≦	≦	≦	<u> </u>		<u>02</u>										
	17	33	44	50	54	56	58	60	61	62											
					Annual	Volumes - m3															
Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>										
	18,700	49,500	71,500	88,000	99,000	105,600	110,000	114,400	117,700	119,900	894,300										
	-	3,300	8,800	11,000	11,000	11,000	11,000	11,000	11,000	11,000	89,100										
	-	-	-	-	-	-	-	-	-	-	-										
	-	5,000	10,000	10,000	10,000	10,000					85,000										
_	-	50,000	100,000	100,000	100,000	100,000		100,000	100,000	100,000	850,000										
	<u>18,700</u>	<u>107,800</u>	<u>190,300</u>	<u>209,000</u>	<u>220,000</u>	<u>226,600</u>	<u>231,000</u>	<u>235,400</u>	<u>238,700</u>	<u>240,900</u>	<u>1,918,400</u>										
					Cumulativ	ve Volumes - n	n <b>3</b>	2       2       1       1       55         -       -       -       -       -       -         -       -       -       -       -       -       -         -<													
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>											
	18,700	68,200	139,700	227,700	326,700	432,300	542,300														
	-	3,300	12,100	23,100	34,100	45,100	56,100	67,100	78,100	89,100											
	-	-	-	-	-	-															
	-	5,000	15,000	25,000	35,000	45,000															
_	-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000											
	<u>18,700</u>	<u>126,500</u>	<u>316,800</u>	<u>525,800</u>	<u>745,800</u>	<u>972,400</u>	<u>1,203,400</u>	<u>1,438,800</u>	<u>1,677,500</u>	<u>1,918,400</u>											







Community Expansion Benmiller (Ashfield-Colborne-Wawanosh) InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

**Table 6.1 - Distribution Charge** 

Distribution Revenue

SES Revenue

Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

EB-2019-0255 Schedule PPPP2 Redacted

\$ 5,733,161

<u>Year 10</u> 92,470

Year 10 23.80

**Project Year** 2,776 18,801 20,435 22,068 22,721 23,211 23,538 \$ 180,881 9,891 16,025 21,415 24,794 34,685 43,769 59,794 48,070 66,871 50,600 71,035 52,118 73,533 53,130 75,198 54,142 76,863 54,901 78,112 4,301 55,407 441,232 7.077 622,113

Net Present Value







Page 2 of 3

<u>1.00</u>

Community Expansion Benmiller (Ashfield-Colborne-Wawanosh)

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital
Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value





Page 3 of 3

EB-2019-0255 Schedule PPPP2 Redacted

## Schedule PPPP3 Enbridge Gas Community Expansion Project Proposal

Benmiller (Ashfield-Colborne-Wawanosh)

#### Section 3.4 Benmiller (Ashfield-Colborne-Wawanosh)

Total Forecasted Customers 62 Penetration Rate 70%

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 Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	11	17%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 16,697	6.7	-2.5	71	(27)
Electricity F/A	4	6%						0.5			13
Electricity Baseboard	0	0%					\$ -	0.5	3.6	-	-
Propane	41	66%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 14,990	5.2	-1.1	. 211	(43)
Wood	4	6%	\$ 3,500	N/A	N/A	\$ -	N/A	N/A	N/A	N/A	N/A
Other	4	6%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	62	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 34,417	12.9	3.6	284	(57)

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

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

		Emission Factors												
	CO2	CH4	N2O	CO2e	Units									
Natural Gas	1863 g/m3	0.037 g/m3	0.035 g/m3	0.00187435	55 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	34 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 M1 (Community Expansion, Non-FN)											
	Consumption Equival		Price per Unit									
Gas	m3	m3 2200 C		\$/m3	0.572							
Heating oil	L	2433	Heating oil	\$/L	1.163							
Electricity	kWh	18046	Electricity	\$/kWh	0.112							
Propane	L	3359	Propane	\$/L	0.484							

#### Notes:

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

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

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

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

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

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

## Schedule PPPP4 Enbridge Gas Community Expansion Project Proposal

Benmiller (Ashfield-Colborne-Wawanosh)

# **Benmiller Community Expansion Project Pipeline Construction Schedule**

Task Namo		2022									2023										2024														
Task Name		Feb	Mai	r Apr	May	Jun	Jul	Aug	Sep	Oct 1	Nov D	ec J	Jan Fe	b Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																			
Permits & Approvals																																			
Leave to Construct Application and Approval												4																							
Pre-Construction, Construction and Testing																																			
In Service																																			

## Schedule PPPP5 Enbridge Gas Community Expansion Project Proposal

Benmiller (Ashfield-Colborne-Wawanosh)



May 21, 2020

Steven Jelich
Director, Southwest Region Operations
Enbridge Gas Inc.
109 Commissioners Rd W.
London, ON N6A 4P1

Dear Mr. Jelich:

Re: Expression of Support for Natural Gas Expansion to The Township of Ashfield-Colborne-Wawanosh/Benmiller, Dungannon, and Port Albert areas.

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 Ashfield-Colborne-Wawanosh, I would like to formally express our interest to have Benmiller, Dungannon, and Port Albert 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 (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,

Glen McNeil,

Mayor

Township of Ashfield-Colborne-Wawanosh

# Schedule PPPP6 Enbridge Gas Community Expansion Project Proposal

Benmiller (Ashfield-Colborne-Wawanosh)

RP-2002-0117 EB-2002-0327 Certificate of Public Convenience and Necessity 19 The Ontario Energy Board hereby grants 20 Union Gas Limited 21 approval under section 8 of the Municipal Franchises Act, R.S.O. 1990, c. M-55, to construct works to supply gas to the 22 Township of Ashfield-Colborne-Wawanosh 23 (excluding Lot 1 Concession 2,3,4 and 5 East Division, Lot 1 in Concession 2 and 3 West Division and Lots 1, 2, 3 and 4 in Concessions 4 and 5 West Division). 24 This certificate replaces the certificate of the former Township of Colborne that is now within the Township of Ashfield-Colborne-Wawanosh. 25 DATED at Toronto, September 22, 2004.

ONTARIO ENERGY BOARD

Board Secretary

## Schedule QQQQ 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: Dungannon (Ashfield-Colborne-Wawan	osh) 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> <li>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.</li> </ul>

3.1 Redacted	I – Description of and Support for Project  Provide a general overview of the project, which is to include the following: communities to be connected, including whether the project would serve any on-reserve Indigenous communities; existing population of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size.								
	will provide access to natural commercial / institutional, 14.  The proposed project will tie-i Proposed facilities will run fro	hip of Ashfield-Colborne-Wa gas to a forecasted 182 cus agricultural intensive and 3 i in to an existing 4" polyethyle m the intersection of	wanosh. The proposed facilities tomers (140 residential, 25						
			,, and						
	A reinforcement segment (3,2 additional loads on the distrib approximately intersection of Huron East.	ution system. The proposed	reinforcement will start on						
	In addition, a new medium-size distribution station is required at the tie-in point.  The approximate length and size of the distribution pipelines required:								
	Pipe Type	Diameter (NPS)	Length (m)						
	Polyethylene	2	21,100						
	Polyethylene	4	1,000						
	Steel	4	17,600						
	<u> </u>								

The approximate length and size of the reinforcement pipeline required:

Pipe Type	Diameter (NPS)	Length (m)
Steel	10	3,250

Please refer to Schedule QQQQ1 for Project Map.

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

Please refer to Schedule QQQQ2, Table 3.2.

3.2

3.3	Provide the annual and cumulative forecast of volumes (in m³) over the ten- year rate stability period by residential, commercial/institutional and industrial sectors for each community.
	For the residential segment, the default value for the average consumption level is 2,200 m³ per year. A proponent that has more accurate information regarding the annual consumption for residential customers in a given community may use that value, in which case it must explain how it has determined that it is more accurate than the default.
	Please refer to Schedule QQQQ2, 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 QQQQ3, 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 QQQQ4 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 QQQQ5.

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 QQQQ6 for Enbridge's CPCNs for the Township of Ashfield-Colborne-Wawanosh (RP-2002-0117 / EB-2002-0327), the Township of North Huron (EB-2015-0169) and the Municipality of Huron East (EB-2013-0372) which cover the entire area of the proposed project.

#### Part IV – Cost of Project

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

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

4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten).

Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).

For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs.

Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences.

Please refer to Schedule QQQQ2, 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 QQQQ2, 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.
	\$27,648,393
	Please refer to Schedule QQQQ2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$151,914
	Please refer to Schedule QQQQ2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$28.40
	Please refer to Schedule QQQQ2, Table 5.3.

#### Part VI – Distribution Charge

6.1 Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.

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

Please refer to Schedule QQQQ2, Table 6.1.

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

#### Part VII - Profitability Index / Benefit to Cost Ratio

Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.

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

Please refer to Schedule QQQQ2, Table 7.1.

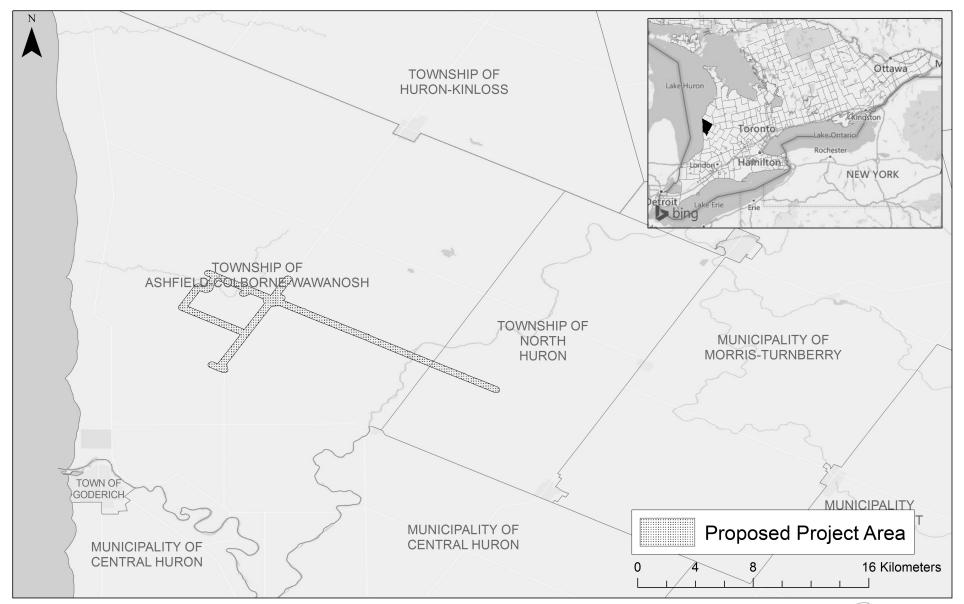
Provide, in a summary table that otherwise meets the requirements of section 7.1, the expected PI of the project without the proposed section 36.2 funding.

Please refer to Schedule QQQQ2, Table 7.2.

## 

## Schedule QQQQ1 Enbridge Gas Community Expansion Project Proposal

## Dungannon





## Schedule QQQQ2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Dungannon (Ashfield-Colborne-Wawanosh)

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period

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

**Cumulative Customers** 

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

#### **Customer Type**

Residential Commercial Institutional Agricultural Industrial **Total Volumes** 

#### **Customer Type**

Residential Commercial Institutional Agricultural Industrial **Total Volumes** 

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

**Total Capital Costs** 

#### Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule QQQQ2 Redacted

Project Year	<u>1</u> 38	<b>2</b> 32	<u>3</u> 13	<u>4</u> 9	<u>5</u>	<u>6</u> 9	<u>7</u> 8	<u>8</u> 9	<u>9</u> 8	<u>10</u>	<u>Total</u> 140
	-	13	3	3	1	1	1	1	1	1	25
	-	-	-	-	-	-	-	-	-	-	-
	-	10 2	3	1	-	-	-	-	-	-	14 3
_	<u>38</u>	<u>57</u>	<u>20</u>	<u>13</u>	<u>8</u>	<u>10</u>	<u>9</u>	<u>10</u>	<u>9</u>	<u>8</u>	<u>182</u>
	38	95	115	128	136	146	155	165	174	182	
					Annual \	Volumes - m3					
Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	41,800	118,800	168,300	192,500	210,100	227,700	246,400	265,100	283,800	300,300	2,054,800
	-	19,600	43,900	53,300	59,100	61,300	63,500	65,700	67,900	70,100	504,400
	-	-	-	-	-	-	-	-	-	-	-
	-	143,300	293,800	302,100	303,200	303,200	303,200	303,200	303,200	303,200	2,558,400
	- 44 900	100,000	250,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	2,450,000
	<u>41,800</u>	<u>381,700</u>	<u>756,000</u>	<u>847,900</u>	<u>872,400</u>	<u>892,200</u>	<u>913,100</u>	<u>934,000</u>	<u>954,900</u>	<u>973,600</u>	<u>7,567,600</u>
					Cumulativ	e Volumes - m	13				
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>	
	41,800	160,600	328,900	521,400	731,500	959,200	1,205,600	1,470,700	1,754,500	2,054,800	
	-	19,600	63,500	116,800	175,900	237,200	300,700	366,400	434,300	504,400	
	-	-	-	-	-	-	-	-	-	-	
	-	143,300	437,100	739,200	1,042,400	1,345,600	1,648,800	1,952,000	2,255,200	2,558,400	
	-	100,000	350,000	650,000	950,000	1,250,000	1,550,000	1,850,000	2,150,000	2,450,000	
	<u>41,800</u>	<u>423,500</u>	<u>1,179,500</u>	<u>2,027,400</u>	<u>2,899,800</u>	<u>3,792,000</u>	<u>4,705,100</u>	<u>5,639,100</u>	<u>6,594,000</u>	<u>7,567,600</u>	





InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue

SES Revenue

Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

EB-2019-0255 Schedule QQQQ2 Redacted

\$ 27,648,393

<u>Year 10</u>

151,914

Year 10 28.40

**Project Year** 64,771 67,874 76,856 \$ 561,402 6,206 29,276 51,170 58,362 61,831 70,977 74,080 9,614 87,791 173,880 195,017 200,652 205,206 210,013 214,820 219,627 223,928 1,740,548 15.820 117,067 225,050 253,379 262,483 269,977 277,887 285,797 293,707 300,784 \$ 2,301,950

Net Present Value







<u>1.00</u>

Community Expansion Dungannon (Ashfield-Colborne-Wawanosh)

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital
Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value





Page 3 of 3

EB-2019-0255 Schedule QQQQ2 Redacted

## Schedule QQQQ3 Enbridge Gas Community Expansion Project Proposal

#### Section 3.4 Dungannon (Ashfield-Colborne-Wawanosh)

Total Forecasted Customers 182 Penetration Rate 65%

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)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	38	21%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 60,043	6.7	-2.5	254	(97)
Electricity F/A	16	9%		·		•					59
Electricity Baseboard	22	12%	\$ 12,000	\$ 1,626	\$ 1,258	\$ 368	\$ 8,035	0.5	3.6	12	78
Propane	80	44%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 29,463	5.2	-1.1	415	(85)
Wood	16	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	NA	. NA	NA
Other	9	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	182	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 110,160	12.9	3.6	690	(45)

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

<sup>2</sup> 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 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.

## Schedule QQQQ4 Enbridge Gas Community Expansion Project Proposal

# **Dungannon Community Expansion Project Pipeline Construction Schedule**

Task Name		2022						2023								2024																			
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct I	Nov De	ec Ja	an Fel	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 QQQQ5 Enbridge Gas Community Expansion Project Proposal



May 21, 2020

Steven Jelich
Director, Southwest Region Operations
Enbridge Gas Inc.
109 Commissioners Rd W.
London, ON N6A 4P1

Dear Mr. Jelich:

Re: Expression of Support for Natural Gas Expansion to The Township of Ashfield-Colborne-Wawanosh/Benmiller, Dungannon, and Port Albert areas.

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 Ashfield-Colborne-Wawanosh, I would like to formally express our interest to have Benmiller, Dungannon, and Port Albert 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 (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,

Glen McNeil,

Mayor

Township of Ashfield-Colborne-Wawanosh

## Schedule QQQQ6 Enbridge Gas Community Expansion Project Proposal

RP-2002-0117 EB-2002-0327 Certificate of Public Convenience and Necessity 19 The Ontario Energy Board hereby grants 20 Union Gas Limited 21 approval under section 8 of the Municipal Franchises Act, R.S.O. 1990, c. M-55, to construct works to supply gas to the 22 Township of Ashfield-Colborne-Wawanosh 23 (excluding Lot 1 Concession 2,3,4 and 5 East Division, Lot 1 in Concession 2 and 3 West Division and Lots 1, 2, 3 and 4 in Concessions 4 and 5 West Division). 24 This certificate replaces the certificate of the former Township of Colborne that is now within the Township of Ashfield-Colborne-Wawanosh. 25 DATED at Toronto, September 22, 2004.

ONTARIO ENERGY BOARD

Board Secretary

#### EB-2015-0169

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

The Ontario Energy Board 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 North Huron**

DATED at Toronto, July 23, 2015

**ONTARIO ENERGY BOARD** 

Pascale Duguay Manager, Natural Gas Applications

#### EB-2013-0372

#### **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 in the geographic boundaries of the

#### **Municipality of Huron East**

This certificate replaces the existing certificates held by Union for the former Village of Brussels (E.B.C. 226), the former Township of Grey (E.B.C. 229), the former Township of McKillop (F.B.C. 253), the former Town of Seaforth (F.B.C. 244), and the former Township of Tuckersmith (F.B.C. 250).

**DATED** at Toronto, December 19, 2013

**ONTARIO ENERGY BOARD** 

Original Signed By

Kirsten Walli Board Secretary

#### Schedule RRRR Enbridge Gas Community Expansion Project Proposal

**Dungannon and Port Albert** (Ashfield-Colborne-Wawanosh)

# 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: Dungannon and Port Albert 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:
Traine of marriada to contact.	519-436-5325
Patrick McMahon	Cell Phone Number:
	519-437-0759
	Email Address:
	patrick.mcmahon@enbridge.com

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

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

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

Part	II – Description of Proponent's Technical Expertise and Financial Capability
2.1	Describe the proponent's technical expertise to develop, construct, operate and maintain a natural gas distribution system.  N/A
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> <li>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.</li> </ul>

#### Part III – Description of and Support for Project Provide a general overview of the project, which is to include the Redacted following: communities to be connected, including whether the project would serve any on-reserve Indigenous communities; existing population of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size. Enbridge Gas is proposing to provide gas distribution service in the communities of Dungannon and Port Albert within the Township of Ashfield-Colborne-Wawanosh. The proposed facilities will provide access to natural gas to a forecasted 276 customers (226 residential, 31 commercial / institutional, 12 agricultural intensive, 3 grain dryers and 4 industrial). The proposed project will tie-in to an existing 4" polyethylene pipeline on . The proposed facilities will run \_\_\_\_ on \_\_\_\_\_ (from its intersection with \_\_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_, and \_\_\_\_\_\_, to \_\_\_\_\_\_to to reach Port Albert and provide access to gas along \_\_\_\_\_\_, \_\_\_\_\_\_, A reinforcement pipeline (3,250 m of 10" steel pipe) is required to accommodate additional loads on the distribution system. The proposed reinforcement will start on \_\_\_\_\_ approximately \_\_\_\_\_ and end near the intersection of \_\_\_\_ and \_\_\_ within the Municipality of Huron East. In addition, 2 new distribution stations are required to be built – one in Dungannon and a second station for Port Albert. The approximate length and size of the distribution pipelines required: Pipe Type Diameter (NPS) Length (m) 30,800 Polyethylene Polyethylene 4 1,000 29,000 Steel The approximate length and size of the reinforcement pipeline required: Pipe Type Diameter (NPS) Length (m) Steel 10 3,250

Please refer to Schedule RRRR1 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 RRRR2, Table 3.2. 3.3 Provide the annual and cumulative forecast of volumes (in m<sup>3</sup>) over the tenyear rate stability period by residential, commercial/institutional and industrial sectors for each community. For the residential segment, the default value for the average consumption level is 2,200 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 RRRR2, Table 3.3. 3.4 Provide the estimated conversion costs to convert each of the existing heating systems (e.g., propane forced air, oil forced air, electric forced air and electric baseboard) and water-heating systems (e.g., electric, oil and propane) to natural gas. To the extent available, provide information on the current proportion of customers on each type of heating system. Provide the estimated annual costs of the existing alternative fuels relative to natural gas, including the annual savings with natural gas. The calculation of household energy costs for natural gas should include conversion costs, commodity costs, associated upstream transportation costs to Ontario, incremental CNG and LNG costs (where applicable), costs under the federal Greenhouse Gas Pollution Pricing Act and distribution costs. The assessment of household energy cost impacts should include greenhouse gas (GHG) emission estimates (whether positive or negative) related to converting existing heating and water heating systems to natural gas. The major assumptions (e.g., conversion factors) used in the calculations must also be provided.

Please refer to Schedule RRRR3, 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 RRRR4 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 RRRR5.
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 RRRR6 for Enbridge's CPCNs for the Township of Ashfield-Colborne-Wawanosh (RP-2002-0117 / EB-2002-0327), the Township of North Huron (EB-2015-0169) and the Municipality of Huron East (EB-2013-0372) which cover the entire area of the proposed project.
	V – Cost of Project
4.1	Confirm that the proposed project includes a ten-year rate stability period.
	The proposed project does include a ten-year rate stability period.

4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten).

Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).

For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs.

Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences.

Please refer to Schedule RRRR2, 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 RRRR2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$39,758,502  Please refer to Schedule RRRR2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.  \$144,053  Please refer to Schedule RRRR2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.  \$28.89  Please refer to Schedule RRRR2, 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 RRRR2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

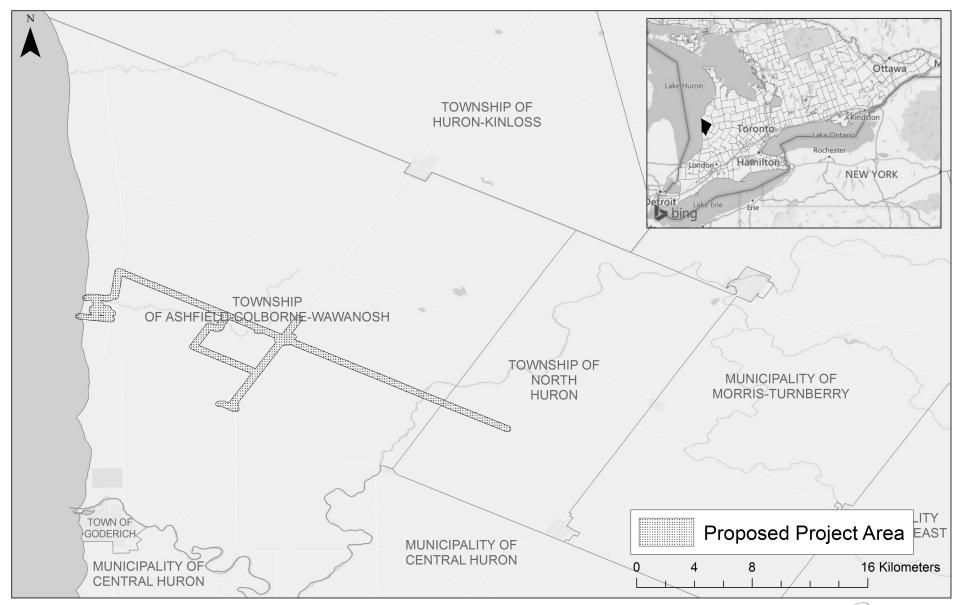
Part \	VII – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue 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 RRRR2, 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 RRRR2, Table 7.2.

Part \	/III – OEB Approvals
8.1	Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order).
	Leave to Construct
	System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)
8.2	For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB's website and where applicable assume a written hearing process.
	Please refer to Schedule RRRR4.

#### Schedule RRRR1 Enbridge Gas Community Expansion Project Proposal

**Dungannon and Port Albert** (Ashfield-Colborne-Wawanosh)

### Dungannon & Port Albert





#### Schedule RRRR2 Enbridge Gas Community Expansion Project Proposal

**Dungannon and Port Albert** (Ashfield-Colborne-Wawanosh)

## Community Expansion Dungannon and Port Albert (Ashfield-Colborne-Wawanosh) InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period	
Customer Type	<u>Firm / I7</u>
Residential	Firm
Commercial	Firm
Institutional	Firm
Agricultural	Firm
Industrial	Firm
Total Customers	

**Cumulative Customers** 

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

#### **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

#### **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

**Total Capital Costs** 

#### Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule RRRR2 Redacted

Project Year	<u>1</u>	<b>2</b> 52	<u>3</u> 35	<u>4</u> 17	<u>5</u> 17	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	70		35			7	7	7	7	7	226
	-	17	5	2	2	1	1	1	1	1	31
	-	-	-	-	-	-	-	-	-	-	-
	-	10	4	1	-	-	-	-	-	-	15
_	-	3	1	-	-	-	-	-	-	-	4
	<u>70</u>	<u>82</u>	<u>45</u>	<u>20</u>	<u>19</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>276</u>
	70	152	197	217	236	244	252	260	268	276	
					Annual V	/olumes - m3					
<b>Project Year</b>	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>
	77,000	211,200	306,900	364,100	401,500	427,900	443,300	458,700	474,100	489,500	3,654,200
	-	25,400	57,700	66,800	71,200	74,500	76,700	78,900	81,100	83,300	615,600
	-	-	-	-	-	-	-	-	-	-	-
	-	143,300	343,800	402,100	403,200	403,200	403,200	403,200	403,200	403,200	3,308,400
	-	150,000	350,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	3,300,000
_	<u>77,000</u>	<u>529,900</u>	<u>1,058,400</u>	1,233,000	<u>1,275,900</u>	<u>1,305,600</u>	<u>1,323,200</u>	<u>1,340,800</u>	<u>1,358,400</u>	<u>1,376,000</u>	10,878,200
						e Volumes - m	3				
Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	
	77,000	288,200	595,100	959,200	1,360,700	1,788,600	2,231,900	2,690,600	3,164,700	3,654,200	
	-	25,400	83,100	149,900	221,100	295,600	372,300	451,200	532,300	615,600	
	-	-	-	-	-	-	-	-	-	-	
	-	143,300	487,100	889,200	1,292,400	1,695,600	2,098,800	2,502,000	2,905,200	3,308,400	
<u>_</u>	-	150,000	500,000	900,000	1,300,000	1,700,000	2,100,000	2,500,000	2,900,000	3,300,000	
	<u>77,000</u>	<u>606,900</u>	<u>1,665,300</u>	2,898,300	<u>4,174,200</u>	5,479,800	<u>6,803,000</u>	<u>8,143,800</u>	9,502,200	<u>10,878,200</u>	





Year 10

Community Expansion Dungannon and Port Albert (Ashfield-Colborne-Wawanosh) InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax
Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

EB-2019-0255 Schedule RRRR2 Redacted

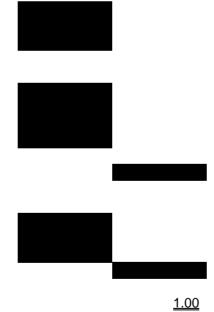
\$ 39,758,502

**Year 10** 144,053

**Year 10** \$ 28.89

**Project Year** 114,030 \$ 871,688 11,432 45,468 78,802 92,799 99,168 103,578 106,191 108,804 111,417 17,710 121,877 243,432 283,590 293,457 300,288 304,336 308,384 312,432 316,480 2,501,986 29,142 167,345 376,389 392,625 403,866 410,527 423,849 430,510 \$ 3,373,674

Net Present Value



Page 2 of 3

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital
Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value









Schedule RRRR2 Redacted

EB-2019-0255

#### Schedule RRRR3 Enbridge Gas Community Expansion Project Proposal

**Dungannon and Port Albert** (Ashfield-Colborne-Wawanosh)

#### Section 3.4 Dungannon and Port Albert (Ashfield-Colborne-Wawanosh)

Total Forecasted Customers 276 Penetration Rate 65%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	rexisting fileli	Estimated Annual Energy Costs (natural gas)		Estimated Annual Savings	Estimated Annual GHG per customer - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	58	21%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 91,054	6.7	-2.5	386	(147)
Electricity F/A	25	9%					•				89
Electricity Baseboard	33	12%		\$ 1,626	•	•	•				119
Propane	121	44%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 44,680	5.2	-1.1	629	(129)
Wood	25	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	. NA	. NA	NA
Other	14	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	276	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 167,056	12.9	3.6	1,046	(67)

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

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

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

#### Emission Factor Sources:

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

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

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

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

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

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

#### Notes:

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

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

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

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

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

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

# Schedule RRRR4 Enbridge Gas Community Expansion Project Proposal

**Dungannon and Port Albert** (Ashfield-Colborne-Wawanosh)

# Dungannon and Port Albert Community Expansion Project Pipeline Construction Schedule

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

# Schedule RRRR5 Enbridge Gas Community Expansion Project Proposal

**Dungannon and Port Albert** (Ashfield-Colborne-Wawanosh)



May 21, 2020

Steven Jelich
Director, Southwest Region Operations
Enbridge Gas Inc.
109 Commissioners Rd W.
London, ON N6A 4P1

Dear Mr. Jelich:

Re: Expression of Support for Natural Gas Expansion to The Township of Ashfield-Colborne-Wawanosh/Benmiller, Dungannon, and Port Albert areas.

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 Ashfield-Colborne-Wawanosh, I would like to formally express our interest to have Benmiller, Dungannon, and Port Albert 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 (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,

Glen McNeil,

Mayor

Township of Ashfield-Colborne-Wawanosh

#### Schedule RRRR6 Enbridge Gas Community Expansion Project Proposal

**Dungannon and Port Albert** (Ashfield-Colborne-Wawanosh)

RP-2002-0117 EB-2002-0327 Certificate of Public Convenience and Necessity 19 The Ontario Energy Board hereby grants 20 Union Gas Limited 21 approval under section 8 of the Municipal Franchises Act, R.S.O. 1990, c. M-55, to construct works to supply gas to the 22 Township of Ashfield-Colborne-Wawanosh 23 (excluding Lot 1 Concession 2,3,4 and 5 East Division, Lot 1 in Concession 2 and 3 West Division and Lots 1, 2, 3 and 4 in Concessions 4 and 5 West Division). 24 This certificate replaces the certificate of the former Township of Colborne that is now within the Township of Ashfield-Colborne-Wawanosh. 25 DATED at Toronto, September 22, 2004.

ONTARIO ENERGY BOARD

Board Secretary

#### Schedule SSSS 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: Canning (Blandford-Blenheim) 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> <li>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.</li> </ul>

#### Part III – Description of and Support for Project Provide a general overview of the project, which is to include the Redacted following: communities to be connected, including whether the project would serve any on-reserve Indigenous communities; existing population of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size. Enbridge Gas is proposing to provide gas distribution service in the community of Canning within the Township of Blandford-Blenheim. The proposed facilities will provide access to natural gas to a forecasted 26 customers, (23 residential, 1 commercial / institutional, 1 agricultural intensive and 1 agricultural grain dryer). The proposed project will tie-in to an existing 4" polyethylene pipe at the intersection of \_\_\_\_\_ and \_\_\_\_ and \_\_\_\_ along and along . The approximate length and size of the distribution pipelines required: Diameter (NPS) Length (m) Pipe Type Polyethylene 5,220 Please refer to Schedule SSSS1 for Project Map. Provide the annual and cumulative forecast of the number of customer 3.2 attachments over the ten-year rate stability period by residential, commercial/institutional and industrial sectors for each community. Indicate for each customer type whether the service to be provided would be firm or interruptible. Please refer to Schedule SSSS2, Table 3.2. 3.3 Provide the annual and cumulative forecast of volumes (in m<sup>3</sup>) over the tenyear rate stability period by residential, commercial/institutional and industrial sectors for each community. For the residential segment, the default value for the average consumption level is 2,200 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 SSSS2, 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 SSSS3, 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 SSSS4 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 SSSS5.
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 SSSS6 for Enbridge's CPCN for the Township of Blandford-Blenheim (EB-2010-0211) which covers the entire area of the proposed project.

#### Part IV – Cost of Project Confirm that the proposed project includes a ten-year rate stability period. The proposed project does include a ten-year rate stability period. 4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten). Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP). For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs. Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences. Please refer to Schedule SSSS2, 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 SSSS2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$1,950,063
5.0	Please refer to Schedule SSSS2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$75,002
	Please refer to Schedule SSSS2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$11.29
	Please refer to Schedule SSSS2, Table 5.3.

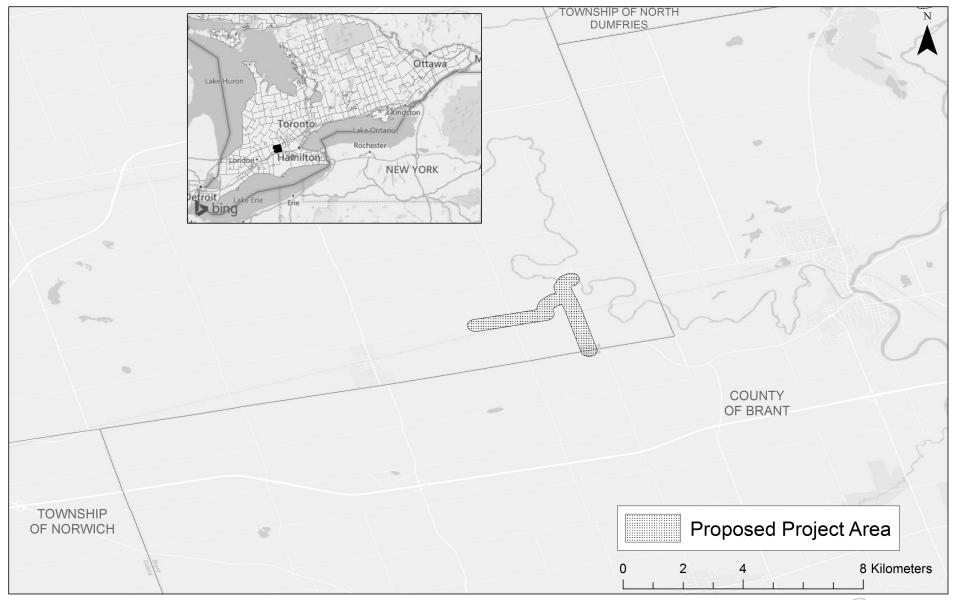
Part \	/I – Distribution Charge
6.1	Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.
	Provide a confirmation that there would be no material cross- subsidization between rate classes.
	Please refer to Schedule SSSS2, 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 SSSS2, 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 SSSS2, Table 7.2.

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>
For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB's website and where applicable assume a written hearing process.  Please refer to Schedule SSSS4.

#### Schedule SSSS1 Enbridge Gas Community Expansion Project Proposal

### Canning (Township of Blandford-Blenheim)





#### Schedule SSSS2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Canning (Blandford-Blenheim)

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period

Customer TypeFirm / ITResidentialFirmCommercialFirmInstitutionalFirmAgriculturalFirmIndustrialFirmTotal CustomersFirm

**Cumulative Customers** 

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

#### **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

#### **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

**Total Capital Costs** 

#### Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule SSSS2 Redacted

<b>Project Year</b>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u> 2	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	7	5	4	2	2	1	1	1	-	-	23
	-	1	-	-	-	-	-	-	-	-	1
	-	-	-	-	-	-	-	-	-	-	-
	-	2	-	-	-	-	-	-	-	-	2
	-	-	-	-	-	-	-	-	-	-	-
	<u>Z</u>	<u>8</u>	<u>4</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<del>-</del>	<del>-</del>	<u>26</u>
	7	15	19	21	23	24	25	26	26	26	
					Annual Vo	olumes - m3					
Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	7,700	20,900	30,800	37,400	41,800	45,100	47,300	49,500	50,600	50,600	381,700
	-	1,100	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	18,700
	-	-	-	-	-	-	-	-	-	-	-
	-	60,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	1,020,000
	-	-	-	-	-	-	-	-	-	-	-
	<u>7,700</u>	<u>82,000</u>	<u>153,000</u>	<u>159,600</u>	<u>164,000</u>	<u>167,300</u>	<u>169,500</u>	<u>171,700</u>	<u>172,800</u>	<u>172,800</u>	<u>1,420,400</u>
					Cumulative	Volumes - m3	<b>.</b>				
<b>Project Year</b>	1	<u>2</u>	<u>3</u>	4	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	
	7,700	28,600	59,400	96,800	138,600	183,700	231,000	280,500	331,100	381,700	
	-	1,100	3,300	5,500	7,700	9,900	12,100	14,300	16,500	18,700	
	-	-	-	-	-	-	-	-	-	-	
	-	60,000	180,000	300,000	420,000	540,000	660,000	780,000	900,000	1,020,000	
	-	-	-	-	-	-	-	-	-	-	
_	<u>7,700</u>	<u>89,700</u>	<u>242,700</u>	402,300	<u>566,300</u>	<u>733,600</u>	903,100	1,074,800	1,247,600	1,420,400	





<u>Year 10</u>

Community Expansion Canning (Blandford-Blenheim)

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue

SES Revenue

Total Distribution Charge

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

Cash Inflow Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

EB-2019-0255 Schedule SSSS2 Redacted

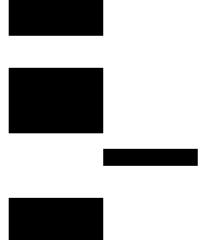
\$ 1,950,063

<u>Year 10</u> 75,002

Year 10 11.29

<b>Project Year</b>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Tota</u>
	\$ 1,143	5,452	9,270	10,250	10,903	11,393	11,720	12,047	12,210	12,210	\$ 96,598
	 1,771	18,860	35,190	36,708	37,720	38,479	38,985	39,491	39,744	39,744	326,692
	\$ 2,914	24,312	<u>44,460</u>	<u>46,958</u>	<u>48,623</u>	<u>49,872</u>	50,705	<u>51,538</u>	<u>51,954</u>	51,954	\$ 423,290

Net Present Value



<u>1.00</u>

Page 2 of 3

Community Expansion Canning (Blandford-Blenheim) InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value









Redacted

EB-2019-0255

Schedule SSSS2

#### Schedule SSSS3 Enbridge Gas Community Expansion Project Proposal

#### **Section 3.4 Canning (Blandford-Blenheim)**

Total Forecasted Customers 26 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)	Annual	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)	Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	5	21%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 8,578	6.7	-2.5	36	(14)
Electricity F/A	2	9%						0.5			8
Electricity Baseboard	3	12%			1						11
Propane	11	44%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 4,209	5.2	-1.1	59	(12)
Wood	2	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	NA	NA	NA
Other	1	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	26	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 15,737	12.9	3.6	99	(6)

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

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

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

#### **Emission Factor Sources:**

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

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

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

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

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

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

#### Notes:

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

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

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

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

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

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

# Schedule SSSS4 Enbridge Gas Community Expansion Project Proposal

# Canning (Blandford-Blenheim) Community Expansion Project Pipeline Construction Schedule

Task Name		2022											2023											2024											
rask name		Feb	Mai	r Apr	May	Jun	Jul   A	Aug S	Sep O	ct N	ov De	Jan	Feb	Mar	Apr 1	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																			
Permits & Approvals																																			1
Leave to Construct Application and Approval																																			1
Pre-Construction, Construction and Testing																																			 
In Service																																			1

#### Schedule SSSS5 Enbridge Gas Community Expansion Project Proposal



#### Township of Blandford-Blenheim

Box 100 / 47 Wilmot Street South Drumbo, Ontario. NOJ 1G0

Phone 519-463-5347 Fax 519-463-5881

Web www.blandfordblenheim.ca

June 15, 2020

Dear Brian Lennie,

### Re: Expression of Support for Natural Gas Expansion to Blandford-Blenheim Township — CANNING, RICHWOOD, RATHO, and PERRY'S CORNERS

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 Blandford-Blenheim Township, I would like to formally express our interest to have the settlement areas of CANNING, RICHWOOD, RATHO, and PERRY'S CORNERS 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,

Mark Peterson

Mayor

#### Schedule SSSS6 Enbridge Gas Community Expansion Project Proposal

#### EB-2010-0211

### **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 Blandford-Blenheim**

This certificate replaces the parts of Certificate E.B.C. 32 and E.B.C. 85 currently held by Union Gas Limited associated with the former Township of Blandford, the former Township of Blenheim and the former Police Village of Plattsville.

**DATED** at Toronto, July 16, 2010 **ONTARIO ENERGY BOARD** 

Original signed by

Neil McKay Manager, Natural Gas Applications

### Schedule TTTT 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: Perry's Corners (Blandford-Blenheim) C	Community Expansion Project			
Address of Head Office: 50 Keil Drive North	Telephone Number: 519-436-4600			
Chatham, ON N7M 5M1				
Name of Individual to Contact:	Office Telephone Number:			
	519-436-5325			
Patrick McMahon	Cell Phone Number:			
	519-437-0759			
	Email Address:			
	patrick.mcmahon@enbridge.com			

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

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

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

Part	II - Description of Proponent's Technical Expertise and Financial Capability
2.1	Describe the proponent's technical expertise to develop, construct, operate and maintain a natural gas distribution system.  N/A
2.2	Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following:  • Current credit rating of the proponent, its parent or associated companies.  • Financial statements for each of the past two fiscal years. This may include audited financial statements, annual reports, prospectuses or other such information. If the proponent does not have financial statements (because it is a new entrant), the proponent is instead to provide pro forma financial statements for two years along with notes or business plans explaining the assumptions used in preparing the pro forma statements, where the documents must be signed by at least one key individual.  • If the proponent needs to raise additional debt or equity to finance the proposed project, evidence of the proponent's ability to access the debt and equity markets.  New entrants that cannot provide the information identified in this section should explain why that is the case and provide the best information that they have available.

Part I	II – Description of and	Support for Project							
3.1 Redacted	Provide a general overview of the project, which is to include the following: communities to be connected, including whether the project would serve any on-reserve Indigenous communities; existing population of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size.  Enbridge Gas is proposing to provide gas distribution service in the community of Perry's Corners within the Township of Blandford-Blenheim. The proposed facilities will provide access to natural gas to a forecasted 14 customers (13 residential and 1 commercial /								
	institutional).  The proposed project wi intersection ofapproximately	Il tie-in to an existing 2" po and ar ar and size of the distribution	olyethylene pipe, The proposed fa nd approximately	of the					
	Pipe Type	Diameter (NPS)	Longth (m)						
	Polyethylene	2	Length (m) 4,100						
3.2	Provide the annual a attachments over the commercial/institution	•	t of the number of or period by resident tors for each comm	ial, nunity.					
3.3	year rate stability industrial sectors for For the residential selevel is 2,200 m <sup>3</sup> per regarding the annual community may use	egment, the default val year. A proponent that consumption for resident that value, in which ca more accurate than the	, commercial/insti ue for the average has more accurate dential customers i use it must explain	tutional and consumption information a given					

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 TTTT3, 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 TTTT4 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 TTTT5.
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 TTTT6 for Enbridge's CPCN for the Township of Blandford-Blenheim (EB-2010-0211) which covers the entire area of the proposed project.

### Part IV – Cost of Project Confirm that the proposed project includes a ten-year rate stability period. The proposed project does include a ten-year rate stability period. 4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten). Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP). For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs. Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences. Please refer to Schedule TTTT2, 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 TTTT2, 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.
	\$1,825,997
	Please refer to Schedule TTTT2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$130,428
	Please refer to Schedule TTTT2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$47.31
	Please refer to Schedule TTTT2, Table 5.3.

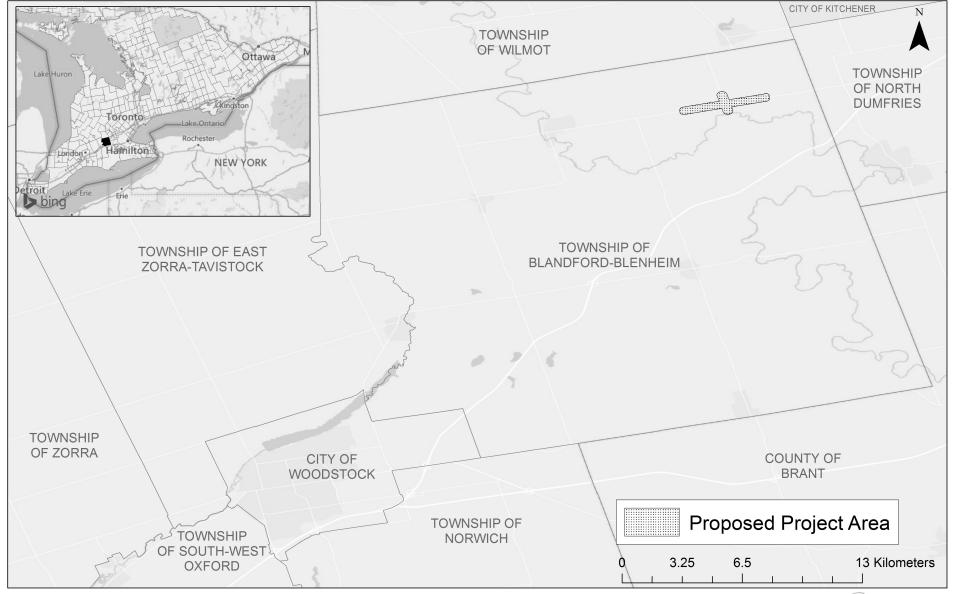
Part \	VI – Distribution Charge
6.1	Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.
	Provide a confirmation that there would be no material cross- subsidization between rate classes.
	Please refer to Schedule TTTT2, 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 TTTT2, 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 TTTT2, Table 7.2.

Part	VIII – OEB Approvals
8.1	Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order).
	System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)
8.2	For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB's website and where applicable assume a written hearing process.  Please refer to Schedule TTTT4.

# Schedule TTTT1 Enbridge Gas Community Expansion Project Proposal

### Perry's Corners (Township of Blandford-Blenheim)





# Schedule TTTT2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Perry's Corners (Blandford-Blenheim)

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period

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

**Cumulative Customers** 

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

**Customer Type** 

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

**Customer Type** 

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

**Total Capital Costs** 

Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule TTTT2 Redacted

Project Year	1	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	7	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	4	3	2	1	1	1	1	-	-	-	13
	-	-	-	-	-	-	-	-	-	-	-
	-	1	-	-	-	-	-	-	-	-	- 1
	-	-	-	_	_	-	-	-	-	-	-
•	<u>4</u>	<u>4</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	=	=	=	<u>14</u>
	4	8	10	11	12	13	14	14	14	14	
					A	Valores a mo					
Drainet Veer	4	2	2			Volumes - m3		0	0	10	Total
Project Year	4,400	2 12,100	17,600	20,900	<u>5</u> 23,100	<u>6</u> 25,300	<u>7</u> 27,500	28,600	9 28,600	10 28,600	<u>Total</u> 216,700
		12,100	-	20,900	23,100	23,300	27,500	20,000	20,000	20,000	210,700
	_	-	_	_	_	-	-	_	_	_	_
	-	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85,000
_	-	-	-	-	-	-	-	-	-	-	-
	<u>4,400</u>	<u>17,100</u>	<u>27,600</u>	30,900	<u>33,100</u>	<u>35,300</u>	<u>37,500</u>	<u>38,600</u>	<u>38,600</u>	<u>38,600</u>	<u>301,700</u>
					Cumulativ	/e Volumes - r	n3				
<b>Project Year</b>	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>	
	4,400	16,500	34,100	55,000	78,100	103,400	130,900	159,500	188,100	10 216,700	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
	-	5,000	15,000	25,000	35,000	45,000	55,000	65,000	75,000	85,000	
	4 400	- 24 500	40.400	- 00.000	112 100	140 400	105.000	-	- 262 400	201 700	
	<u>4,400</u>	<u>21,500</u>	<u>49,100</u>	80,000	<u>113,100</u>	<u>148,400</u>	<u>185,900</u>	224,500	<u>263,100</u>	<u>301,700</u>	







Community Expansion Perry's Corners (Blandford-Blenheim) InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue

Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

EB-2019-0255 Schedule TTTT2 Redacted

\$ 1,825,997

<u>Year 10</u>

130,428

Year 10 47.31

**Project Year** 653 3,644 3,971 4,298 4,624 4,787 4,787 4,787 \$ 36,774 2,067 3,154 1,012 3,933 6,348 7,107 7,613 8,119 8,625 8,878 8,878 8,878 69,391 1,665 6,000 9,502 10,751 11,584 12,417 13,249 13,665 13,665 <u>13,665</u> \$ 106,165

Net Present Value







<u>1.00</u>

Community Expansion Perry's Corners (Blandford-Blenheim)

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital
Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value





Page 3 of 3

EB-2019-0255 Schedule TTTT2 Redacted

# Schedule TTTT3 Enbridge Gas Community Expansion Project Proposal

#### Section 3.4 Perry's Corners (Blandford-Blenheim)

Total Forecasted Customers 14 Penetration Rate 65%

Existing Fuel / Heating Type	Number of Customers	Current proportion of customer <sup>1</sup>	Estimated Conversion Cost <sup>2</sup>	(Avisting tuel)	Estimated Annual Energy Costs (natural gas)	• .	Estimated Annual Savings	Estimated Annual GHG per customer - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	3	21%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 4,619	6.7	-2.5	20	(7)
Electricity F/A	1	9%	\$ 5,000	\$ 2,028				0.5	3.6	1	5
Electricity Baseboard	2	12%	\$ 12,000	\$ 1,626	\$ 1,258	\$ 368	\$ 618	0.5	3.6	1	6
Propane	6	44%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 2,266	5.2	-1.1	. 32	(7)
Wood	1	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	NA	NA	NA
Other	1	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	14	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 8,474	12.9	3.6	53	(3)

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

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

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

#### **Emission Factor Sources:**

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

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

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

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

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

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

### Notes:

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

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

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

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

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

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

# Schedule TTTT4 Enbridge Gas Community Expansion Project Proposal

# Perry's Corners (Blandford-Blenheim) Community Expansion Project Pipeline Construction Schedule

Tools Nove o		2022					2023							2024																										
Task Name	Jai	ı Fe	eb N	1ar	Apr	May	Jun	Ju	I Au	ıg S	Sep	Oct	Nov	Dec	Jan	Feb	Ma	r Ap	r M	ay .	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Ma	r Ap	r Ma	y Ju	n J	ul /	Aug	Sep	Oct	Nov	Dec
Environmental Assessments																																								
Permits & Approvals																		F																						
Leave to Construct Application and Approval																		F			•																			
Pre-Construction, Construction and Testing																				Ħ																				
In Service																																								

# Schedule TTTT5 Enbridge Gas Community Expansion Project Proposal



### Township of Blandford-Blenheim

Box 100 / 47 Wilmot Street South Drumbo, Ontario. NOJ 1G0

Phone 519-463-5347 Fax 519-463-5881

Web www.blandfordblenheim.ca

June 15, 2020

Dear Brian Lennie,

### Re: Expression of Support for Natural Gas Expansion to Blandford-Blenheim Township — CANNING, RICHWOOD, RATHO, and PERRY'S CORNERS

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 Blandford-Blenheim Township, I would like to formally express our interest to have the settlement areas of CANNING, RICHWOOD, RATHO, and PERRY'S CORNERS 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,

Mark Peterson

Mayor

# Schedule TTTT6 Enbridge Gas Community Expansion Project Proposal

#### EB-2010-0211

### **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 Blandford-Blenheim**

This certificate replaces the parts of Certificate E.B.C. 32 and E.B.C. 85 currently held by Union Gas Limited associated with the former Township of Blandford, the former Township of Blenheim and the former Police Village of Plattsville.

**DATED** at Toronto, July 16, 2010 **ONTARIO ENERGY BOARD** 

Original signed by

Neil McKay Manager, Natural Gas Applications

### Schedule UUUU Enbridge Gas Community Expansion Project Proposal

Ratho (Blandford-Blenheim)

### 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: Ratho (Blandford-Blenheim) Community	Expansion Project										
Toject Name. Namo (Biandiord-Bienneim) 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> <li>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.</li> </ul>

### Part III – Description of and Support for Project Provide a general overview of the project, which is to include the Redacted following: communities to be connected, including whether the project would serve any on-reserve Indigenous communities; existing population of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size. Enbridge Gas is proposing to provide gas distribution service in the community of Ratho within the Township of Blandford-Blenheim. The proposed facilities will provide access to natural gas to a forecasted 21 customers, (18 residential, 1 commercial / institutional, 1 agricultural farm and 1 agricultural grain dryer). The proposed project will tie-in to an existing 2" polyethylene pipe along near the intersection of \_\_\_\_\_ and \_\_\_\_. The proposed facilities will run \_\_\_\_ along \_\_\_\_ and partially branch on to \_\_\_\_\_. and Two existing stations require upsizing upgrades. The approximate length and size of the distribution pipelines required: Pipe Type Diameter (NPS) Length (m) Polyethylene 4,950 2 Polyethylene 2,185 Please refer to Schedule UUUU1 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 UUUU2, Table 3.2. 3.3 Provide the annual and cumulative forecast of volumes (in m<sup>3</sup>) over the tenyear rate stability period by residential, commercial/institutional and industrial sectors for each community. For the residential segment, the default value for the average consumption level is 2.200 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 UUUU2, 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 UUUU3, 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 UUUU4 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 UUUU5.
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 UUUU6 for Enbridge's CPCN for the Township of Blandford-Blenheim (EB-2010-0211) which covers the entire area of the proposed project.

### Part IV – Cost of Project Confirm that the proposed project includes a ten-year rate stability period. The proposed project does include a ten-year rate stability period. 4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten). Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP). For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs. Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences. Please refer to Schedule UUUU2, 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 UUUU2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$4,386,975  Please refer to Schedule UUUU2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.  \$204,999  Please refer to Schedule UUUU2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.  \$26.97  Please refer to Schedule UUUU2, 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 UUUU2, Table 6.1.
	Enbridge Gas confirms that there will be no material cross-subsidization between rate classes.

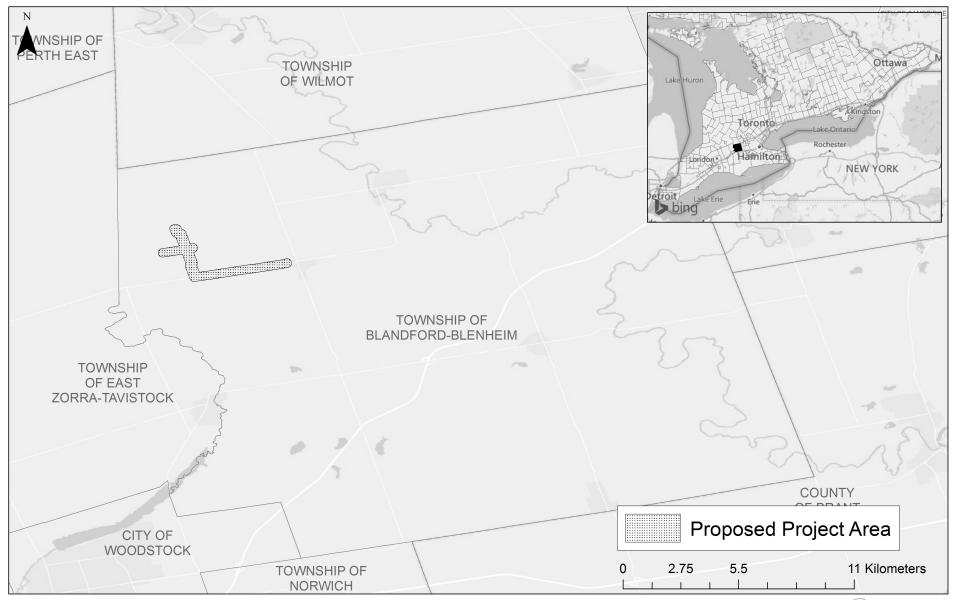
Part \	VII – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue 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 UUUU2, 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 UUUU2, Table 7.2.

Part \	VIII – OEB Approvals
8.1	Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order).
	Leave to Construct
	System Expansion Surcharge (SES) rate approval (subject to OEB determinations in the EB-2020-0094 harmonization proceeding)
8.2	For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB's website and where applicable assume a written hearing process.
	Please refer to Schedule UUUU4.

### Schedule UUUU1 Enbridge Gas Community Expansion Project Proposal

Ratho (Blandford-Blenheim)

### Ratho (Township of Blandford-Blenheim)





### Schedule UUUU2 Enbridge Gas Community Expansion Project Proposal

Ratho (Blandford-Blenheim)

Community Expansion Ratho (Blandford-Blenheim)

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period

Customer TypeFirm / ITResidentialFirmCommercialFirmInstitutionalFirmAgriculturalFirmIndustrialFirmTotal CustomersFirm

**Cumulative Customers** 

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

### **Customer Type**

Residential Commercial Institutional Agricultural Industrial Total Volumes

### **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

**Total Capital Costs** 

### Table 4.3 - Revenue Requirement Over The Rate Stability Period

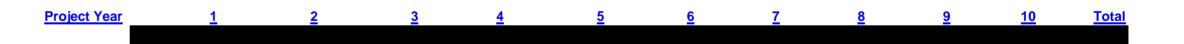
Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule UUUU2 Redacted

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>
	6	4	3	1	1	1	1	1	-	-	18
	-	1	-	-	-	-	-	-	-	-	1
	-	-	-	-	-	-	-	-	-	-	-
	-	2	-	-	-	-	-	-	-	-	2
	<u>6</u>	<u>7</u>	<u>3</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>21</u>
	6	13	16	17	18	19	20	21	21	21	
5						/olumes - m3	_			40	
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>	10 400	Total
	6,160	16,940	24,640	29,260	32,340	34,980	37,180	39,380	40,480	40,480	301,840
	-	1,100	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	18,700
	-	60,000	120,000	120,000	120,000	120,000	120,000	120,000	- 120,000	120,000	1,020,000
	-	-	-	-	-	-	-	-	-	-	-
•	<u>6,160</u>	<u>78,040</u>	<u>146,840</u>	<u>151,460</u>	<u>154,540</u>	<u>157,180</u>	<u>159,380</u>	<u>161,580</u>	<u>162,680</u>	<u>162,680</u>	<u>1,340,540</u>
					Cumulative	e Volumes - m	3				
<b>Project Year</b>	<u>1</u>	<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>	
	6,160	23,100	47,740	77,000	109,340	144,320	181,500	220,880	261,360	301,840	
	-	1,100	3,300	5,500	7,700	9,900	12,100	14,300	16,500	18,700	
	-	-	-	-	-	-	-	-	-	-	
	-	60,000	180,000	300,000	420,000	540,000	660,000	780,000	900,000	1,020,000	
		-	-	-	-	-	-	-	-	-	
	<u>6,160</u>	<u>84,200</u>	<u>231,040</u>	<u>382,500</u>	<u>537,040</u>	<u>694,220</u>	<u>853,600</u>	<u>1,015,180</u>	<u>1,177,860</u>	<u>1,340,540</u>	







Community Expansion Ratho (Blandford-Blenheim)

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue

SES Revenue

Total Distribution Charge

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

Cash Inflow Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

EB-2019-0255 Schedule UUUU2 Redacted

\$ 4,386,975

<u>Year 10</u>

204,999

**Year 10** 26.97

**Project Ye** 

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>
\$	915	4,864	8,356	9,041	9,499	9,891	10,217	10,544	10,707	10,707 \$	84,741
	1,417	17,949	33,773	34,836	35,544	36,151	36,657	37,163	37,416	37,416	308,324
\$	2,331	22,813	<u>42,129</u>	<u>43,877</u>	<u>45,043</u>	<u>46,042</u>	<u>46,875</u>	<u>47,707</u>	<u>48,124</u>	<u>48,124</u> \$	393,065

Net Present Value







<u>1.00</u>

Community Expansion Ratho (Blandford-Blenheim)

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value





Page 3 of 3

EB-2019-0255 Schedule UUUU2 Redacted

# Schedule UUUU3 Enbridge Gas Community Expansion Project Proposal

Ratho (Blandford-Blenheim)

#### Section 3.4 Ratho (Blandford-Blenheim)

Total Forecasted Customers 21 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)	is -ve) ner customer	Community -  Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	4	21%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 6,928	6.7	-2.5	29	(11)
Electricity F/A	2	9%									7
Electricity Baseboard	3	12%	\$ 12,000	\$ 1,626	\$ 1,258	\$ 368	\$ 927	0.5	3.6	1	9
Propane	9	44%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 3,400	5.2	-1.1	. 48	(10)
Wood	2	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	. NA	NA NA	NA
Other	1	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	21	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 12,711	12.9	3.6	80	(5)

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

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

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

#### **Emission Factor Sources:**

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

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

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

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

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

	Rate	M1 (Community Expansio	n, 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.

# Schedule UUUU4 Enbridge Gas Community Expansion Project Proposal

Ratho (Blandford-Blenheim)

# Ratho (Blandford-Blenheim) Community Expansion Project Pipeline Construction Schedule

Task Name		2022						2023								2024																			
rask Name	Jan	Feb	Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct 1	Nov D	ec Ja	an Fe	b Ma	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 UUUU5 Enbridge Gas Community Expansion Project Proposal

Ratho (Blandford-Blenheim)



# Township of Blandford-Blenheim

Box 100 / 47 Wilmot Street South Drumbo, Ontario. NOJ 1G0

Phone 519-463-5347 Fax 519-463-5881

Web www.blandfordblenheim.ca

June 15, 2020

Dear Brian Lennie,

# Re: Expression of Support for Natural Gas Expansion to Blandford-Blenheim Township — CANNING, RICHWOOD, RATHO, and PERRY'S CORNERS

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 Blandford-Blenheim Township, I would like to formally express our interest to have the settlement areas of CANNING, RICHWOOD, RATHO, and PERRY'S CORNERS 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,

Mark Peterson

Mayor

# Schedule UUUU6 Enbridge Gas Community Expansion Project Proposal

Ratho (Blandford-Blenheim)

#### EB-2010-0211

# **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 Blandford-Blenheim**

This certificate replaces the parts of Certificate E.B.C. 32 and E.B.C. 85 currently held by Union Gas Limited associated with the former Township of Blandford, the former Township of Blenheim and the former Police Village of Plattsville.

**DATED** at Toronto, July 16, 2010 **ONTARIO ENERGY BOARD** 

Original signed by

Neil McKay Manager, Natural Gas Applications

## Schedule VVVV 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: Richwood (Blandford-Blenheim) Commi	unity Expansion Project
Address of Head Office:	Telephone Number:
50 Keil Drive North	519-436-4600
Chatham, ON N7M 5M1	313 430 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> <li>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.</li> </ul>

Part II	II - Description of and Sup	port for Project	
3.1 Redacted	would serve any on-reserve of each community by resectors; routing; length of	o be connected, included in the connected in the commercial in the commercial in the commercial in the connected in the conne	uding whether the project nunities; existing population l/institutional and industrial nal pipe size.
	Enbridge Gas is proposing to Richwood within the Townshi access to natural gas to a forcommercial).	p of Blandford-Blenheim	. The proposed facilities will provide
	The proposed project will tie-icommunity of Drumbo along facilities will run on and then to	then	thylene pipe, of the (). The proposed on to
	The approximate length and	size of the distribution pi	pelines required:
	Pipe Type	Diameter (NPS)	Length (m)
	Polyethylene	2	6,530
3.2	Provide the annual and cattachments over the tencommercial/institutional Indicate for each custome would be firm or interrup	umulative forecast of year rate stability per and industrial sector er type whether the satible.	f the number of customer eriod by residential, s for each community.
3.3	year rate stability perior industrial sectors for each	od by residential, on the heart of the heart	volumes (in m³) over the tencommercial/institutional and for the average consumption
	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	s more accurate information Itial customers in a given it must explain how it has
	Please refer to Schedule V	VVV2, 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 VVVV3, 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 VVVV4 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 VVVV5.
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 VVVV6 for Enbridge's CPCN for the Township of Blandford-Blenheim (EB-2010-0211) which covers the entire area of the proposed project.

# Part IV – Cost of Project Confirm that the proposed project includes a ten-year rate stability period. The proposed project does include a ten-year rate stability period. 4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten). Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP). For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs. Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences. Please refer to Schedule VVVV2, 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 VVVV2, Table 4.3.

V – Section 36.2 Funding
Provide the total amount of section 36.2 funding needed to support the project.
\$2,968,422
Please refer to Schedule VVVV2, Table 5.1.
Provide the section 36.2 funding amount per customer number served in year ten of the project.
\$109,942
Please refer to Schedule VVVV2, Table 5.2.
Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
\$49.97
Please refer to Schedule VVVV2, Table 5.3.

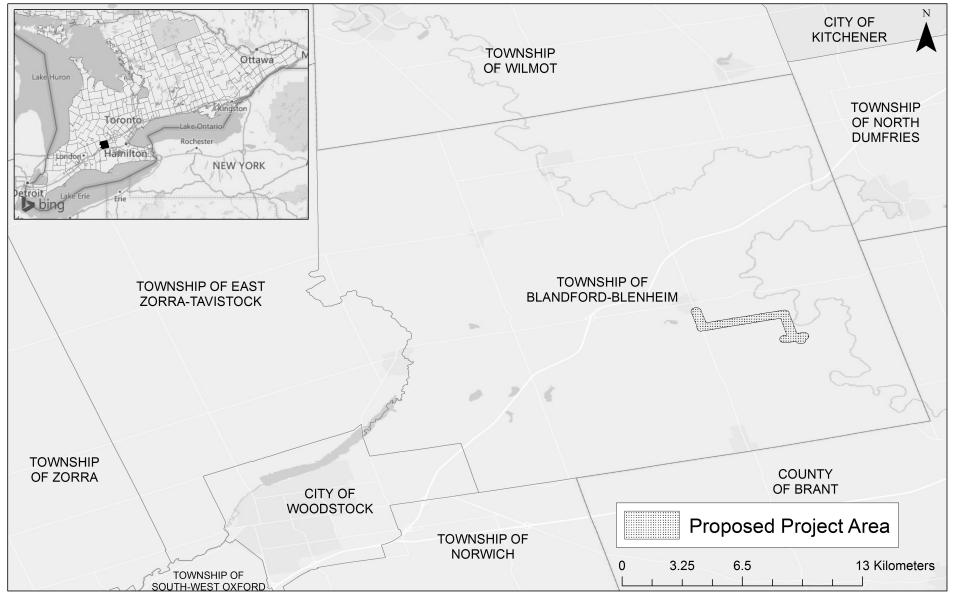
Part \	/I – Distribution Charge
6.1	Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.
	Provide a confirmation that there would be no material cross- subsidization between rate classes.
	Please refer to Schedule VVVV2, 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 VVVV2, 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 VVVV2, Table 7.2.

	VIII – OEB Approvals
8.1	Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order).
	Leave to Construct
	System Expansion Surcharge (SES) rate approval (subject to OEB
	determinations in the EB-2020-0094 harmonization proceeding)
8.2	For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB's website and where applicable assume a written hearing process.
	Please refer to Schedule VVVV4.

# Schedule VVVV1 Enbridge Gas Community Expansion Project Proposal

# Richwood (Township of Blandford-Blenheim)





# Schedule VVVV2 Enbridge Gas Community Expansion Project Proposal

Community Expansion Richwood (Blandford-Blenheim)

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period

Customer TypeFirm / ITResidentialFirmCommercialFirmInstitutionalFirmAgriculturalFirmIndustrialFirmTotal CustomersFirm

**Cumulative Customers** 

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

#### **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

#### **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

**Total Capital Costs** 

#### Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule VVVV2 Redacted

Project Year	<u>1</u>	<u>2</u> 5	<u>3</u>	<u>4</u> 2	<u>5</u> 2	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	7	5	4	2	2	1	1	1	1	-	24
	-	1	1	1	-	-	-	-	-	-	3
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
-	- 7	-	<u>-</u>	-	<u>-</u>	<u>-</u>	<u>-</u>	- 1	- 1		- 27
	<u>7</u>	<u>6</u>	<u>5</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u></u>	<del>-</del>	<u>27</u>
	7	13	18	21	23	24	25	26	27	27	
						olumes - m3					
Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	7,700	20,900	30,800	37,400	41,800	45,100	47,300	49,500	51,700	52,800	385,000
	-	1,100	3,300	5,500	6,600	6,600	6,600	6,600	6,600	6,600	49,500
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
-	7 700	-	- 04 400	-	-	-	-	-	-	-	-
	<u>7,700</u>	<u>22,000</u>	<u>34,100</u>	<u>42,900</u>	<u>48,400</u>	<u>51,700</u>	<u>53,900</u>	<u>56,100</u>	<u>58,300</u>	<u>59,400</u>	434,500
					Cumulative	Volumes - m3	3				
<b>Project Year</b>	<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>	
	7,700	28,600	59,400	96,800	138,600	183,700	231,000	280,500	332,200	385,000	
	-	1,100	4,400	9,900	16,500	23,100	29,700	36,300	42,900	49,500	
	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
	<u>7,700</u>	<u>29,700</u>	<u>63,800</u>	<u>106,700</u>	<u>155,100</u>	206,800	<u>260,700</u>	<u>316,800</u>	<u>375,100</u>	<u>434,500</u>	







Community Expansion Richwood (Blandford-Blenheim) InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue

SES Revenue

Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

EB-2019-0255 Schedule VVVV2 Redacted

\$ 2,968,422

<u>Year 10</u>

109,942

**Year 10** 49.97

**Project Year** 1,143 8,003 8,329 8,656 8,819 \$ 64,511 3,266 5,063 6,369 7,186 7,676 1,771 5,060 7,843 9,867 11,132 11,891 12,397 12,903 13,409 13,662 99,935 2,914 8,326 12,906 16,236 18,318 <u>19,567</u> 20,400 21,232 22,481 \$ 164,446

Net Present Value







<u>1.00</u>

Community Expansion Richwood (Blandford-Blenheim)

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value





Page 3 of 3

EB-2019-0255 Schedule VVVV2 Redacted

# Schedule VVVV3 Enbridge Gas Community Expansion Project Proposal

#### Section 3.4 Richwood (Blandford-Blenheim)

Total Forecasted Customers 27 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)	Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	6	21%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 8,907	6.7	-2.5	38	(14)
Electricity F/A	2	9%						0.5			9
Electricity Baseboard	3	12%	\$ 12,000	\$ 1,626	\$ 1,258	\$ 368	\$ 1,192	0.5	3.6	2	12
Propane	12	44%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 4,371	5.2	-1.1	. 62	(13)
Wood	2	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	NA	. NA	NA
Other	1	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	27	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 16,342	12.9	3.6	102	(7)

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

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

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

#### **Emission Factor Sources:**

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

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

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

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

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

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

#### Notes:

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

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

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

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

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

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

# Schedule VVVV4 Enbridge Gas Community Expansion Project Proposal

# Richwood (Blandford-Blenheim) Community Expansion Project Pipeline Construction Schedule

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

# Schedule VVVV5 Enbridge Gas Community Expansion Project Proposal



# Township of Blandford-Blenheim

Box 100 / 47 Wilmot Street South Drumbo, Ontario. NOJ 1G0

Phone 519-463-5347 Fax 519-463-5881

Web www.blandfordblenheim.ca

June 15, 2020

Dear Brian Lennie,

# Re: Expression of Support for Natural Gas Expansion to Blandford-Blenheim Township — CANNING, RICHWOOD, RATHO, and PERRY'S CORNERS

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 Blandford-Blenheim Township, I would like to formally express our interest to have the settlement areas of CANNING, RICHWOOD, RATHO, and PERRY'S CORNERS 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,

Mark Peterson

Mayor

# Schedule VVVV6 Enbridge Gas Community Expansion Project Proposal

#### EB-2010-0211

# **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 Blandford-Blenheim**

This certificate replaces the parts of Certificate E.B.C. 32 and E.B.C. 85 currently held by Union Gas Limited associated with the former Township of Blandford, the former Township of Blenheim and the former Police Village of Plattsville.

**DATED** at Toronto, July 16, 2010 **ONTARIO ENERGY BOARD** 

Original signed by

Neil McKay Manager, Natural Gas Applications

# Schedule WWWW Enbridge Gas Community Expansion Project Proposal

**Harley and Glen Morris (Brant County)** 

# 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: Harley and Glen Morris (Brant County)	Community Expansion Project
Address of Head Office:	Tolonhono Numbor:
	Telephone Number: 519-436-4600
50 Keil Drive North	519-430-4000
Chatham, ON N7M 5M1	
Name of Individual to Contact:	Office Telephone Number:
Traine of marriadar to contact.	519-436-5325
Patrick McMahon	Cell Phone Number:
	519-437-0759
	Email Address:
	patrick.mcmahon@enbridge.com

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

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

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

Part	II – Description of Proponent's Technical Expertise and Financial Capability
2.1	Describe the proponent's technical expertise to develop, construct, operate and maintain a natural gas distribution system.  N/A
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> <li>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.</li> </ul>

art I	I – Description of and Sup	port for Project					
.1	Provide a general overvie	ew of the project, which	h is to include the				
edacted	following: communities t						
	would serve any on-reserve Indigenous communities; existing population						
			/institutional and industrial				
	sectors; routing; length of						
			ion service in the communities				
			llity of the County of Brant. Th				
			is to a forecasted 224 customer				
	(202 residential, 21 comme	ercial / institutional and	1 industrial).				
	intersection of	·	existing 2" steel pipeline at th				
	The proposed faciliti	es in Harley will run	along				
			), and				
			· · · · · · · · · · · · · · · · · · ·				
	and	·					
	A new station is required in	Harley to accommodat	e additional customers in Harle				
	For Ohra Marcia di Cara		the second section All controls to				
			to an existing 4" polyethylen				
	pipeline at the intersection	of	and				
	The proposed facilities in C	lon Morrie will run	along				
			_ along t on to				
	, and						
	and	_•					
	The approximate length an	d size of the distribution	n pipelines required:				
	Pipe Type	Diameter (NPS)	Length (m)				
	Polyethylene	2	15,875				
	Polyethylene	4	13,185				
			,				
	Please refer to Schedule V	/WWW1 for Project Ma	ps.				
5.2	Provide the annual and c	umulative forecast of	the number of customer				
	attachments over the ten	-year rate stability per	riod by residential,				
	commercial/institutional						
	Indicate for each custom						
	would be firm or interrup	• •	<b>-</b>				

3.3	Provide the annual and cumulative forecast of volumes (in m³) over the ten- year rate stability period by residential, commercial/institutional and industrial sectors for each community.
	For the residential segment, the default value for the average consumption level is 2,200 m³ per year. A proponent that has more accurate information regarding the annual consumption for residential customers in a given community may use that value, in which case it must explain how it has determined that it is more accurate than the default.
	Please refer to Schedule WWWW2, 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 WWWW3, 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 WWWW4 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 WWWW5.

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 WWWW6 for Enbridge's CPCN for the County of Brant (RP-2003-0039 / EB-2003-0047) which covers the entire area of the proposed project.

#### Part IV – Cost of Project

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

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

4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten).

Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).

For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs.

Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences.

Please refer to Schedule WWWW2, 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 WWWW2, 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.  \$11,236,428  Please refer to Schedule WWWW2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.  \$50,207  Please refer to Schedule WWWW2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.  \$9.63  Please refer to Schedule WWWW2, Table 5.3.

#### Part VI – Distribution Charge

Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.

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

Please refer to Schedule WWWW2, Table 6.1.

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

## Part VII - Profitability Index / Benefit to Cost Ratio

Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.

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

Please refer to Schedule WWWW2, Table 7.1.

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

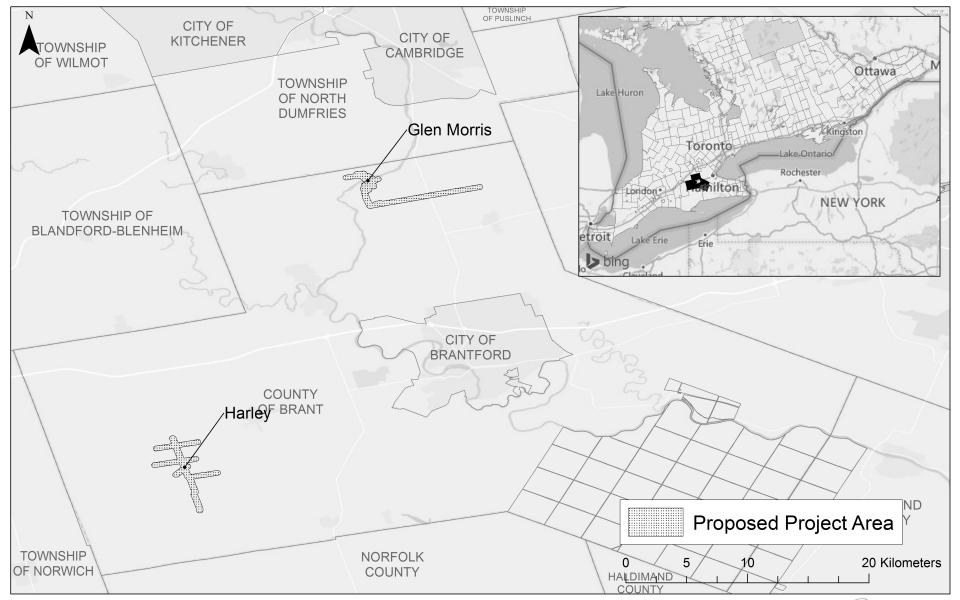
Please refer to Schedule WWWW2, Table 7.2.

# 

# Schedule WWWW1 Enbridge Gas Community Expansion Project Proposal

**Harley and Glen Morris (Brant County)** 

# Brant County - Harley and Glen Morris





# Schedule WWWW2 Enbridge Gas Community Expansion Project Proposal

**Harley and Glen Morris (Brant County)** 

# Community Expansion Harley and Glen Morris (Brant County)

InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Sta	ability Period
--	----------------

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

**Cumulative Customers** 

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

# **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

# **Customer Type**

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

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

**Total Capital Costs** 

# Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule WWWW2 Redacted

Project Year	1 62 - - -	2 47 8 1 4	31 2 - 1	4 16 1 - 1	5 16 1 - 1	<b>6</b> 6 1	7 6 - - -	<b>8</b> 6	<b>9</b> 6 - - -	10 6 - - -	Total 202 13 1 7 1
	<u>62</u>	<u>61</u>	<u>34</u>	<u>18</u>	<u>18</u>	<u>7</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>224</u>
	62	123	157	174	192	199	205	211	218	224	
						/olumes - m3					
Project Year	<u>1</u>	<u>2</u>	272.000	<u>4</u>	<u>5</u>	<u>6</u>	200.020	440.500	<u>9</u>	10	Total
	68,420	188,155	273,680	324,995	359,205	383,152	396,836	410,520	424,204	437,888	3,267,055
	-	14,045	29,960	32,930	35,130	37,330	38,430	38,430	38,430	38,430	303,115
	-	25,000 120,000	50,000 290,000	50,000 390,000	50,000 490,000	50,000 540,000	50,000 540,000	50,000 540,000	50,000 540,000	50,000 540,000	425,000 3,990,000
	-	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
_	68,420	<u>397,200</u>	743,640	897,925	1,034,335	1,110,482	1,125,266	1,138,950	1,152,634	1,166,318	8,835,170
	<u>00,420</u>	<u>337,200</u>	<u>143,040</u>	<u>037,323</u>	<u>1,004,000</u>	1,110,402	<u>1,125,200</u>	<u>1,130,330</u>	1,102,004	<u>1,100,510</u>	<u>0,033,170</u>
					Cumulative	e Volumes - m	3				
<b>Project Year</b>	<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>	
	68,420	256,575	530,255	855,250	1,214,455	1,597,607	1,994,443	2,404,963	2,829,167	3,267,055	
	-	14,045	44,005	76,935	112,065	149,395	187,825	226,255	264,685	303,115	
	-	25,000	75,000	125,000	175,000	225,000	275,000	325,000	375,000	425,000	
	-	120,000	410,000	800,000	1,290,000	1,830,000	2,370,000	2,910,000	3,450,000	3,990,000	
	-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000	
	<u>68,420</u>	<u>465,620</u>	<u>1,209,260</u>	<u>2,107,185</u>	3,141,520	4,252,002	5,377,268	<u>6,516,218</u>	7,668,852	8,835,170	





Year 10

**Community Expansion** Harley and Glen Morris (Brant County) InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue

Total Distribution Charge

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

Cash Inflow Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

EB-2019-0255 Schedule WWWW2 Redacted

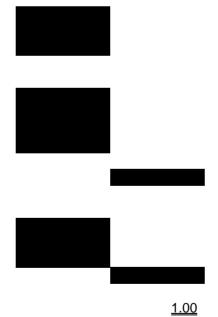
\$ 11,236,428

<u>Year 10</u> 50,207

**Year 10** 9.63

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>
	\$ 10,159	36,338	59,497	71,119	80,086	85,749	87,944	89,976	92,007	94,039	\$ 706,913
_	15,737	91,356	171,037	206,523	237,897	255,411	258,811	261,959	265,106	268,253	2,032,089
•	\$ 25,895	<u>127,694</u>	230,534	277,641	<u>317,983</u>	<u>341,160</u>	<u>346,755</u>	<u>351,934</u>	<u>357,113</u>	362,292	\$ 2,739,002

Net Present Value



Page 2 of 3

Community Expansion Harley and Glen Morris (Brant County)

InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value









EB-2019-0255 Schedule WWWW2 Redacted

# Schedule WWWW3 Enbridge Gas Community Expansion Project Proposal

**Harley and Glen Morris (Brant County)** 

## Section 3.4 Harley and Glen Morris (Brant County)

Total Forecasted Customers 224 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)	Annual	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)	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	47	21%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 73,899	6.7	-2.5	313	(119)
Electricity F/A	20	9%	\$ 5,000	\$ 2,028	\$ 1,258	\$ 770	\$ 15,531	0.5	3.6	11	72
Electricity Baseboard	27	12%	\$ 12,000	\$ 1,626	\$ 1,258	\$ 368	\$ 9,890	0.5	3.6	15	96
Propane	99	44%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 36,262	5.2	-1.1	. 511	(104)
Wood	20	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	. NA	NA NA	NA
Other	11	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	224	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 135,582	12.9	3.6	849	(55)

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

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

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

## **Emission Factor Sources:**

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

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

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

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

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

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

# Notes:

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

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

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

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

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

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

# Schedule WWWW4 Enbridge Gas Community Expansion Project Proposal

**Harley and Glen Morris (Brant County)** 

# Harley and Glen Morris (Brant County) Community Expansion Project Pipeline Construction Schedule

Tools Name a		2022																2023								2024										
Task Name	Jan	Feb	Mai	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 1	Nov	Эес
Environmental Assessments																																				
Permits & Approvals																																				
Leave to Construct Application and Approval																																				
Pre-Construction, Construction and Testing																																				
In Service																																				

# Schedule WWWW5 Enbridge Gas Community Expansion Project Proposal

**Harley and Glen Morris (Brant County)** 



# **The County of Brant**

**David Bailey** 

**MAYOR** 

Mr. Murray Costello, Regional Director Enbridge Gas Inc.

Dear Mr. Costello,

#### Re: Expression of Support for Expansion of Natural Gas into Glen Morris and Harley

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 County of Brant, I would like to formally express our interest to have an expansion of natural gas into Glen Morris and Harley 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,

David Bailey, Mayor County of Brant

**DAVID BAILEY**, **MAYOR** • 26 Park Avenue • P.O. Box 160 • Burford, ON • NoE 1A0 T: 519.449.2451 • TF: 1.888.250.2295 • F: 519.449.2454 • david.bailey@brant.ca • www.brant.ca

# Schedule WWWW6 Enbridge Gas Community Expansion Project Proposal

**Harley and Glen Morris (Brant County)** 

Ontario Energy Board

# Commission de l'Énergie de l'Ontario



RP-2003-0039 EB-2003-0047

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

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

Before:

Art Birchenough Presiding Member

> Ken McCann Member

#### ORDER GRANTING A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

Union Gas Limited ("Union") filed a application dated February 20, 2003 (the "Certificate Application") with the Ontario Energy Board (the "Board") under the *Municipal Franchises Act*, R.S.O. 1990, c. M.55 as amended (the "Act") for an order cancelling the existing Certificates of Public Convenience and Necessity for the predecessor municipalities of the County of Brant (the City of Fort William (F.B.C. 70) and the City of Port Arthur (F.B.C. 71)) and replacing them with a Certificate of Public Convenience and Necessity for the new County of Brant. The Board has assigned File No. RP-2003-0039/EB-2003-0047 to this Certificate Application.

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

4

5

2

3

6

7

8

9

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

11

10

#### THE BOARD THEREFORE ORDERS THAT:

12

1. The existing Certificates of Public Convenience and Necessity for the County of Brant (F.B.C. 259), the Town of Paris (F.B.C. 259), the Township of Brantford (F.B.C. 259), the Township of Burford (F.B.C. 259 and E.B.C. 5), the Township of Oakland (E.B.C. 169 and E.B.C. 210), the Township of Onondaga (F.B.C. 259), and the Township of South Dumfries (F.B.C. 259) are cancelled and replaced with a single Certificate of Public Convenience and Necessity for the County of Brant (EB-2003-0047).).

13

2. A Certificate of Public Convenience and Necessity is granted to Union Gas Limited to construct works to supply gas in the City of Brant (EB-2003-0047).

14

**DATED** at Toronto, July 9, 2003. ONTARIO ENERGY BOARD

Peter H. O'Dell

Assistant Board Secretary

# Schedule XXXX Enbridge Gas Community Expansion Project Proposal

Cavan Monaghan		BD)	)
----------------	--	-----	---

# 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
Drainet Names Cover Managhan	(DD) Community Fyrancian Project
Project Name: Cavan Monaghan –	(BD) Community Expansion Project
Address of Head Office:	Telephone Number:
50 Keil Drive North	519-436-4600
Chatham, ON N7M 5M1	
Name of Individual to Contact:	Office Telephone Number:
	519-436-5325
Patrick McMahon	Cell Phone Number:
	519-437-0759
	Email Address:
	patrick.mcmahon@enbridge.com

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

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

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

Part	II - Description of Proponent's Technical Expertise and Financial Capability
2.1	Describe the proponent's technical expertise to develop, construct, operate and maintain a natural gas distribution system.  N/A
2.2	Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following:  • Current credit rating of the proponent, its parent or associated companies.  • Financial statements for each of the past two fiscal years. This may include audited financial statements, annual reports, prospectuses or other such information. If the proponent does not have financial statements (because it is a new entrant), the proponent is instead to provide pro forma financial statements for two years along with notes or business plans explaining the assumptions used in preparing the pro forma statements, where the documents must be signed by at least one key individual.  • If the proponent needs to raise additional debt or equity to finance the proposed project, evidence of the proponent's ability to access the debt and equity markets.  New entrants that cannot provide the information identified in this section should explain why that is the case and provide the best information that they have available.

Part II	I – Description of and Sup	port for Project					
3.1 Redacted	Provide a general overview of the project, which is to include the						
	service within the Township of and additional streets in ovide access to natural gas to a ercial / institutional).						
	The proposed project will tie-i and The ex increased load. The supply la  The approximate length and s	cisting station will require ateral runs along _	a rebuild in order to support the along				
	The approximate length and s	size of the supply laterals	s required.				
	Pipe Type Polyethylene	Diameter (NPS) 4	Length (m) 2,880				
	The approximate length and s	size of the distribution pip	pelines required:				
	Pipe Type Polyethylene	Diameter (NPS)	Length 6,678				
	Please refer to Schedule XXXX1 for Project Map.						
3.2	Provide the annual and c attachments over the ten commercial/institutional a Indicate for each custome would be firm or interrupted.  Please refer to Schedule X	year rate stability pe and industrial sector er type whether the s tible.	s for each community.				

3.3	Provide the annual and cumulative forecast of volumes (in m³) over the ten- year rate stability period by residential, commercial/institutional and industrial sectors for each community.
	For the residential segment, the default value for the average consumption level is 2,200 m³ per year. A proponent that has more accurate information regarding the annual consumption for residential customers in a given community may use that value, in which case it must explain how it has determined that it is more accurate than the default.
	Please refer to Schedule XXXX2, 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 XXXX3, 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 XXXX4 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 XXXX5.

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 XXXX6 from Enbridge's CPCN for the Township of Cavan Monaghan (RP-2004-0125 / EB-2004-0198) which covers the entire area of the proposed project.

(Note: The Township of Cavan and the Village of Millbrook, previously part of Durham County, in 1974 became part of Peterborough County, and were amalgamated, along with North Monaghan, into one township - Cavan-Millbrook-North Monaghan - in 1998. In 2007, the township was renamed Cavan Monaghan.)

## 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 XXXX2, 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 XXXX2, Table 4.3.

Part \	V – Section 36.2 Funding							
5.1	Provide the total amount of section 36.2 funding needed to support the project.							
	\$3,720,341  Please refer to Schedule XXXX2, Table 5.1.							
	Trease ference defined and 70 to 42, Table 6.11.							
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.							
	\$49,605							
	Please refer to Schedule XXXX2, Table 5.2.							
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.							
	\$13.52							
	Please refer to Schedule XXXX2, Table 5.3.							

#### Part VI – Distribution Charge

Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.

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

Please refer to Schedule XXXX2, Table 6.1.

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

#### Part VII – Profitability Index / Benefit to Cost Ratio

Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.

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

Please refer to Schedule XXXX2, Table 7.1.

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

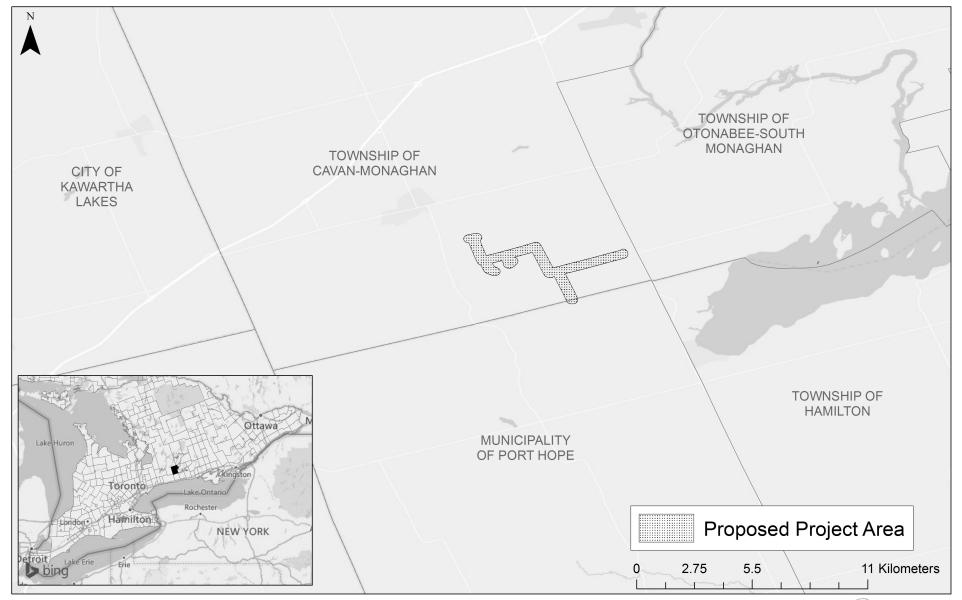
Please refer to Schedule XXXX2, Table 7.2.

Part	VIII – OEB Approvals
8.1	Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order).  • Leave to Construct
8.2	For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB's website and where applicable assume a written hearing process.  Please refer to Schedule XXXX4.

# Schedule XXXX1 Enbridge Gas Community Expansion Project Proposal

Cavan Monaghan (	BD
------------------	----

# Cavan Monaghan 1





# Schedule XXXX2 Enbridge Gas Community Expansion Project Proposal

Cavan Monaghan (	BD
------------------	----

Community Expansion	Cavan Monaghan (Bi InService Date: Nov-01-2023	D)											EB-2019-02 Schedule XX Redacted	
Table 3.2 - Custome	er Attachments Over The Rate Stability Period													
	Customer Type	Firm / IT	Project Year	<u>1</u> 23	<u>2</u> 17	3 12	<u>4</u>	<u>5</u> 6	<u>6</u> 2	<u>7</u> 2	<u>8</u> 2	<u>9</u> 2	<u>10</u> 2	<u>Total</u>
	Residential	Firm		23		12	6	6	2	2	2	2	2	74
	Commercial	Firm		-	-	-	-	-	-	-	-	-	-	-
	Institutional Agricultural	Firm Firm		-	- 1	-	-	-	-		-	-	-	- 1
	Industrial	Firm		_	-	-	_	_	_	-	-	-	_	-
	Total Customers		_	<u>23</u>	<u>18</u>	<u>12</u>	<u>6</u>	<u>6</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>75</u>
	Cumulative Customers			23	41	53	59	65	67	69	71	73	75	
Table 3.3 - Annual a	and Cumulative Volumes Over The Rate Stabil	lity Period (m3)												
								Ann	ual Volumes	- m3				
	Customer Type		<b>Project Year</b>	<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			27,600	75,600	110,400	132,000	146,400	156,000	160,800	165,600	170,400	175,200	1,320,000
	Commercial Institutional			-	-	-	-	-	-	-	-	-	-	-
	Agricultural			-	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
	Industrial			-	-	-	100,000	100,000	100,000	100,000	100,000	100,000	100,000	-
	Total Volumes		<del>-</del>	<u>27,600</u>	125,600	210,400	232,000	<u>246,400</u>	<u>256,000</u>	<u>260,800</u>	<u>265,600</u>	<u>270,400</u>	<u>275,200</u>	2,170,000
	Customer Type Residential		Project Year	1 27,600	<b>2</b> 103,200	3 213,600	<u>4</u> 345,600	<b>Cumu</b> l 5 492,000	lative Volume 6 648,000	es - m3 <u>7</u> 808,800	<b>8</b> 974,400	<u>9</u> 1,144,800	1,320,000	
	Commercial			-	-	-	-	-	-	-	-	-	-	
	Institutional			-	- 50.000	150,000	- 250 000	250,000	- 450 000	- 550 000	- 650 000	- 750 000	- 950 000	
	Agricultural Industrial			-	50,000	150,000	250,000	350,000	450,000	550,000	650,000	750,000	850,000	
	Total Volumes		_	<u>27,600</u>	<u>153,200</u>	<u>363,600</u>	<u>595,600</u>	842,000	1,098,000	1,358,800	1,624,400	1,894,800	2,170,000	
Table 4.2 - Total Ca	pital Costs At End Of The Rate Stability Period	d												
	Total Capital Costs			<u>Year 10</u>										
Table 4.3 - Revenue	Requirement Over The Rate Stability Period													
	Revenue Requirement		<u>Project Year</u>	1	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	7	8	9	<u>10</u>	<u>Total</u>
	Closing Rate Base (net of proposed Section 36	6.2 funding)		<u>Year 10</u>										

**Community Expansion** 

Cavan Monaghan -InService Date: Nov-01-2023 (BD)

EB-2019-0255 Schedule XXXX2 Redacted

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

\$ 3,720,341

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

<u>Year 10</u> 49,605

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

Section 36.2 Funding Amount Per Volume (m3)

Year 10 13.52

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue **Total Distribution Charge** 

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

**Project Year** 

24,340 4,836 15,744 28,125 30,648 28,888 48,392 53,360 56,672 6,348 11,184 44,632 72,732

<u>81,485</u> 87,320

32,330 33,171 59,984 58,880 91,210 93,155

34,012 61,088 <u>95,100</u>

35,694 \$ 34,853 63,296 62,192 97,045 <u>98,990</u> 772,854

<u>10</u>

**Total** 

273,754

499,100

Net Present Value





<u>1.00</u>

Community Expansion Cavan Monaghan -

(BD)

InService Date: Nov-01-2023

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow Gross Capital

Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value

Schedule XXXX2 Redacted

EB-2019-0255

# Schedule XXXX3 Enbridge Gas Community Expansion Project Proposal

Cavan Monaghan		BD)
----------------	--	-----

Section 3.4 Cavan Monaghan - \_\_\_\_\_ (BD)

**Total Forecasted Customers** 75 **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	GHG per customer Existing Fuel	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil Electricity F/A Electricity Baseboard Propane Wood Other	16 7 9 33 7 4	21% 9% 12% 44% 9% 5%	\$ 5,000 \$ 12,000 \$ 600 \$ 3,500	\$ 2,187 \$ 2,187	\$ 1,481 \$ 1,481 \$ 1,481 N/A	\$ 706 \$ 706 \$ 283 \$ -	\$ 4,769 \$ 6,358	0.6 0.6 5.6 NA	3.9 3.9 -1.1	4 5 . 184	(42) 26 35 (36) NA
Total	75	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 45,200	13.9	4.1	307	(16)

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

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

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

#### **Emission Factor Sources:**

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

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

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

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

Rate 1 (Community Expansion, Non-FN)							
		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.

# Schedule XXXX4 Enbridge Gas Community Expansion Project Proposal

Cavan Monaghan (_	BD)	)
8 _	· · · · · · · · · · · · · · · · · · ·	

# Cavan Monaghan - \_\_\_\_\_ (BD) Community Expansion Project Pipeline Construction Schedule

Tools Nove o		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	Dec
Environmental Assessments																																				
Permits & Approvals																																				
Leave to Construct Application and Approval																																				
Pre-Construction, Construction and Testing																																				
In Service																																				

## Schedule XXXX5 Enbridge Gas Community Expansion Project Proposal

Cavan Monaghan	(	BD)
----------------	---	-----



June 1, 2020

Mark Wilson
Enbridge Gas Inc.
Senior Advisor, Municipal and Stakeholder Relations
500 Consumers Road
Toronto, ON
M2J 1P8

Dear Mr. Wilson,

#### Re: Expression of Support for Natural Gas Expansion in the Township of Cavan Monaghan

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 Cavan Monaghan, I would like to formally express our interest to have unserved areas of the Township, as identified by Enbridge Gas, included on the list of projects Enbridge Gas proposes to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Program. The Council has requested that Enbridge consider

These are as per the attached plans. The Township requests that you consider the attached alternatives for servicing in lieu of your original proposed areas..

Based on the Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may include support for projects 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,

Scott McFadden, Mayor

Township of Cavan Monaghan

705-201-1026

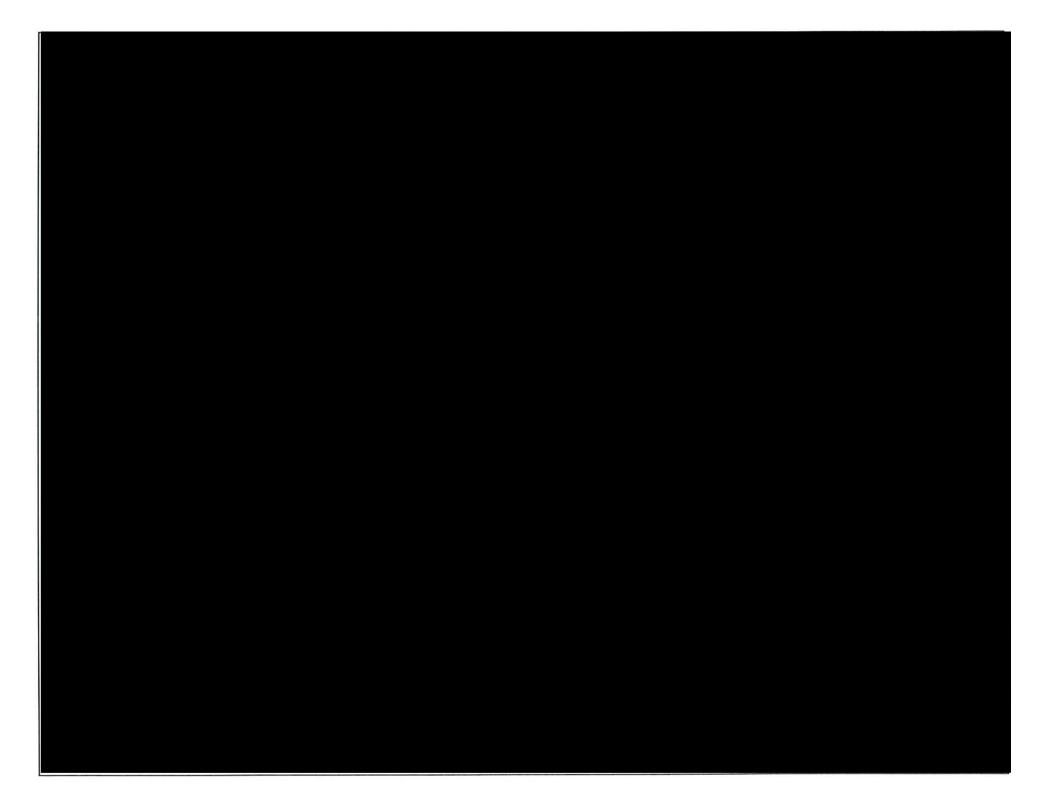
mayor@cavanmonaghan.net

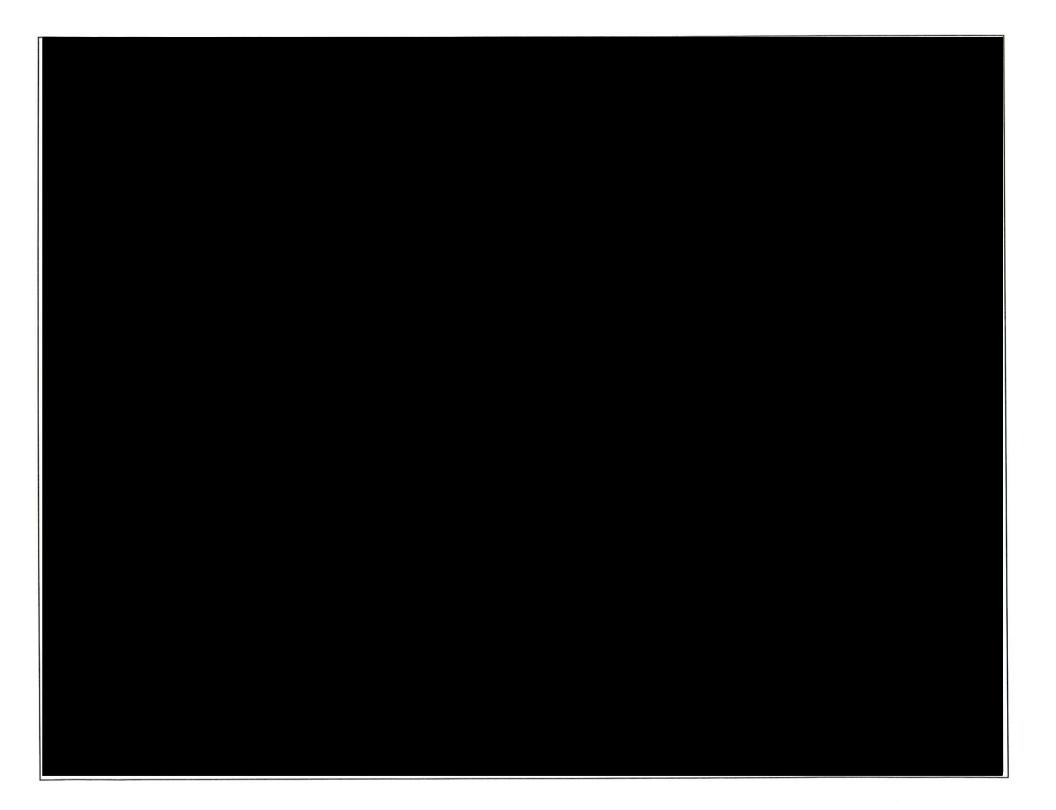
988 County Road 10 Millbrook, Ontario LOA 1G0

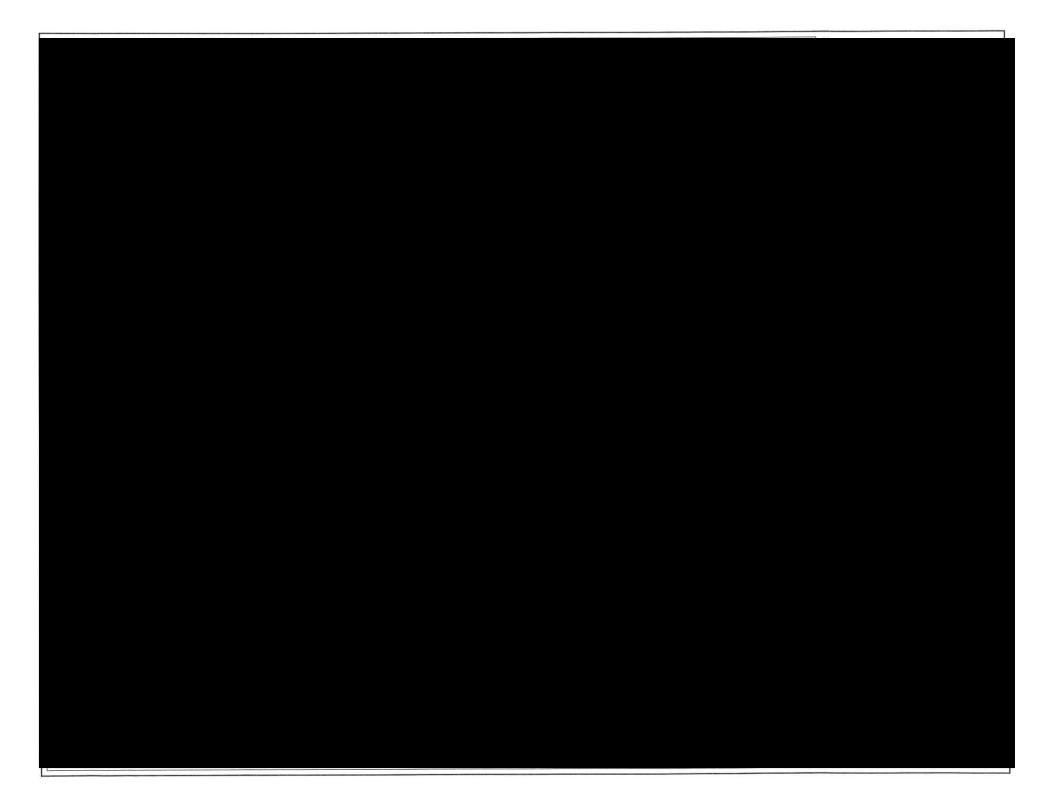
www.cavanmonaghan.net

Phone: (705) 932-2929 Fax: (705) 932-3458

Email: services@cavanmonaghan.net







## Schedule XXXX6 Enbridge Gas Community Expansion Project Proposal

Cavan Monaghan	(	BD)
Cavan Monagnan		(RD)

#### Cammission de l'Énergie de l'Ontario



Ontario

RP-2004-0125

EB-2004-0198

2

3

4

6

7

8

#### Certificate of Public Convenience and Necessity

The Ontario Energy Board hereby grants

**Enbridge Gas Distribution Inc.** 

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

Township of Cavan-Millbrook-North Monaghan.

This certificate replaces the certificates of the former municipalities that are now within the Township of Cavan-Millbrook-North Monaghan.

**DATED** at Toronto, July 16, 2004.

ONTARIO ENERGY BOARD

Peter H. O'Dell **Acting Board Secretary** 

DocID: OEB: 137VQ-0

## Schedule YYYY 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: Cavan Monaghan – (MD)	Community Expansion Project
Address of Head Office:	Telephone Number:
50 Keil Drive North	519-436-4600
	519-430-4000
Chatham, ON N7M 5M1	
Name of Individual to Contact:	Office Telephone Number:
Traine of marriagal to comacil	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> <li>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.</li> </ul>

### Part III – Description of and Support for Project Provide a general overview of the project, which is to include the Redacted following: communities to be connected, including whether the project would serve any on-reserve Indigenous communities; existing population of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size. Enbridge Gas is proposing to provide gas distribution service within the Township of Cavan Monaghan along \_\_\_\_\_. The proposed facilities will provide access to natural gas to a forecasted 22 customers (15 residential, 4 commercial / institutional and 3 industrial). The proposed project will tie-in to an existing system at the intersection of and . The proposed project will require a new station at this tie-in to cut the pressure from XHP to distribution pressure. The distribution facilities run along \_\_\_\_\_ from the tie-in and ends at \_\_\_ The approximate length and size of the distribution pipelines required: Diameter (NPS) Pipe Type Length (m) Polyethylene 4,241 Steel 6 Please refer to Schedule YYYY1 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 YYYY2, Table 3.2. 3.3 Provide the annual and cumulative forecast of volumes (in m<sup>3</sup>) over the tenyear rate stability period by residential, commercial/institutional and industrial sectors for each community. For the residential segment, the default value for the average consumption level is 2,200 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 YYYY2, Table 3.3.

Provide the estimated conversion costs to convert each of the existing heating systems (e.g., propane forced air, oil forced air, electric forced air and electric baseboard) and water-heating systems (e.g., electric, oil and propane) to natural gas. To the extent available, provide information on the current proportion of customers on each type of heating system.  Provide the estimated annual costs of the existing alternative fuels relative to natural gas, including the annual savings with natural gas. The calculation of household energy costs for natural gas should include conversion costs, commodity costs, associated upstream transportation costs to Ontario, incremental CNG and LNG costs (where applicable), costs under the federal <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 YYYY3, Table 3.4.
Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
Please refer to Schedule YYYY4 for Proposed Construction Schedule.
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 YYYY5.
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 YYYY6 for Enbridge's CPCN for the Township of Cavan Monaghan (RP-2004-0125 / EB-2004-0198) which covers the entire area of the proposed project.

(Note: The Township of Cavan and the Village of Millbrook, previously part of Durham County, in 1974 became part of Peterborough County, and were amalgamated, along with North Monaghan, into one township - Cavan-Millbrook-North Monaghan - in 1998. In 2007, the township was renamed Cavan Monaghan.)

#### 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 YYYY2, 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 YYYY2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$2,098,225
	Please refer to Schedule YYYY2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$95,374
	Please refer to Schedule YYYY2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$5.92
	Please refer to Schedule YYYY2, Table 5.3.

#### Part VI – Distribution Charge

Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.

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

Please refer to Schedule YYYY2, Table 6.1.

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

#### Part VII - Profitability Index / Benefit to Cost Ratio

Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.

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

Please refer to Schedule YYYY2, Table 7.1.

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

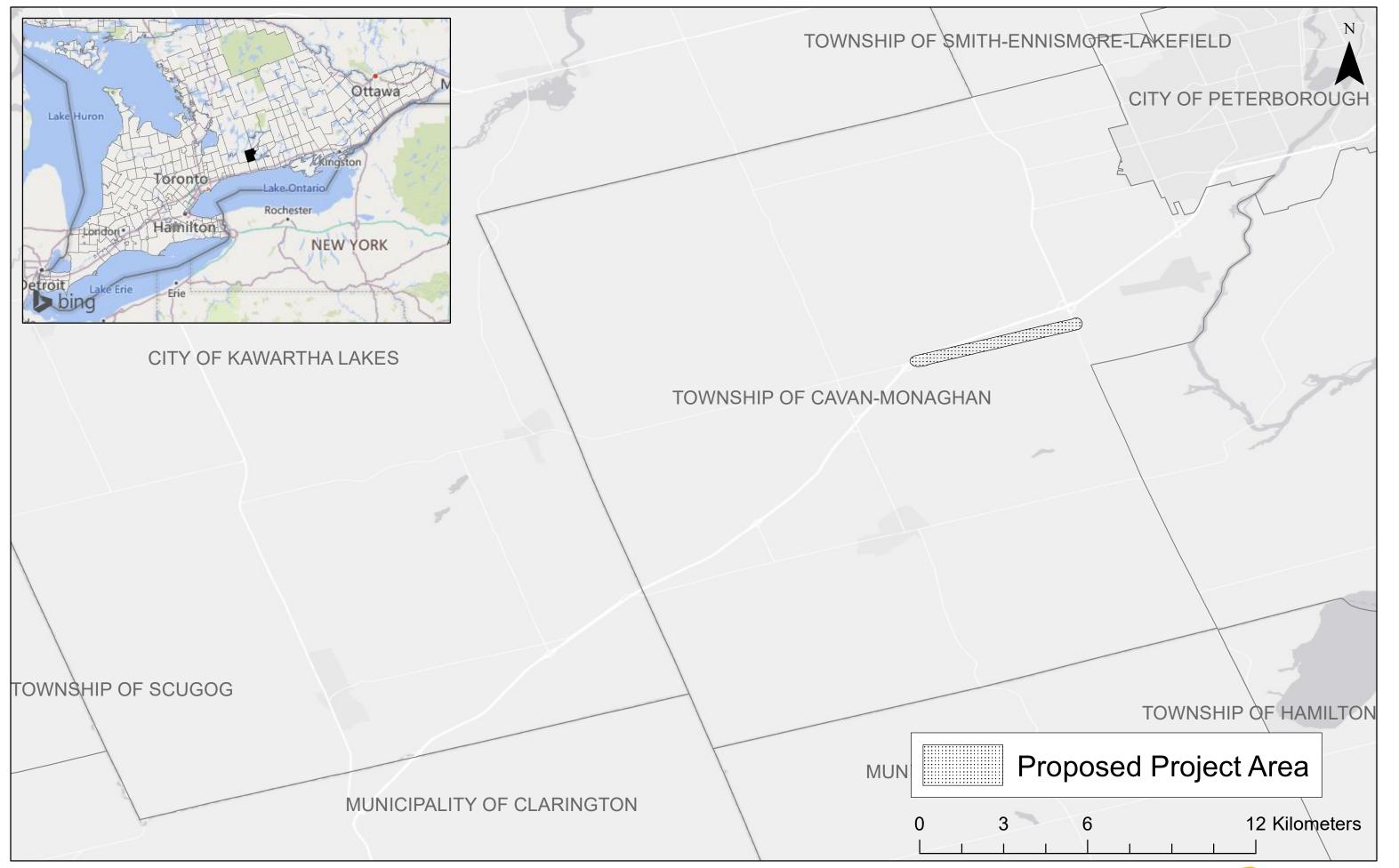
Please refer to Schedule YYYY2, Table 7.2.

Part	VIII – OEB Approvals
8.1	Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order).  • Leave to Construct
8.2	For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB's website and where applicable assume a written hearing process.  Please refer to Schedule YYYY4.

### Schedule YYYY1 Enbridge Gas Community Expansion Project Proposal

# Cavan Monaghan 3

EB-2019-0255 Schedule YYYY1 Redacted





## Schedule YYYY2 Enbridge Gas Community Expansion Project Proposal

Community Expansion	Cavan Monaghan (MD) InService Date: Nov-01-2023												EB-2019-02 Schedule Y Redacted	
Table 3.2 - Custome	er Attachments Over The Rate Stability Period  Customer Type	Firm / IT	Project Year	1	<u>2</u>	3	4	5	6	7	<u>8</u>	9	<u>10</u>	<u>Total</u>
	Residential	Firm		4	3	1	1	1	<u>6</u> 1	1	1	1	1	15
	Commercial	Firm		-	2	1	-	-	-	-	-	-	-	3
	Institutional	Firm		-	-	-	-	-	-	-	-	-	-	-
	Agricultural	Firm		-	1	-	-	-	-	-	-	-	-	1
	Industrial Total Customers	Firm	<u> </u>		<u>2</u> <u>8</u>	1	<u>-</u> 1	<u> </u>	<u>-</u> 1	<u>-</u> 1	<u>-</u> 1	<u>-</u> 1		3 <u>22</u>
				<u>±</u>		≗	≟	<u>+</u>	≟	±	<u> </u>	≟	≟	<u>22</u>
	Cumulative Customers			4	12	15	16	17	18	19	20	21	22	
Table 3.3 - Annual a	and Cumulative Volumes Over The Rate Stability	y Period (m3)												
								Ann	ual Volumes -	- m3				
	<u>Customer Type</u>		Project Year	<u>1</u>	2	<u>3</u>	4	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	9	<u>10</u>	<u>Total</u>
	Residential			4,800	13,200	18,000	20,400	22,800	25,200	27,600	30,000	32,400	34,800	229,200
	Commercial Institutional			-	3,700	8,600	9,800	9,800	9,800	9,800	9,800	9,800	9,800	80,900
	Agricultural			-	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85,000
	Industrial				100,000	250,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	2,450,000
	Total Volumes			<u>4,800</u>	<u>121,900</u>	<u>286,600</u>	340,200	<u>342,600</u>	345,000	347,400	349,800	<u>352,200</u>	<u>354,600</u>	2,845,100
				·										
	Contamon Toma		Duningt Voca		•	•		Cumul	lative Volume		•	•	40	
	Customer Type Residential		Project Year	4 800	<u>2</u>	36 000	<u>4</u>	<u>5</u>	<u>6</u>	122.000	162,000	<u>9</u>	<u>10</u>	
	Commercial			4,800	18,000 3,700	36,000 12,300	56,400 22,100	79,200 31,900	104,400 41,700	132,000 51,500	162,000 61,300	194,400 71,100	229,200 80,900	
	Institutional			-	3,700	-	-	-	41,700	-	-	71,100	-	
	Agricultural			-	5,000	15,000	25,000	35,000	45,000	55,000	65,000	75,000	85,000	
	Industrial			-	100,000	350,000	650,000	950,000	1,250,000	1,550,000	1,850,000	2,150,000	2,450,000	
	Total Volumes		_	<u>4,800</u>	126,700	413,300	<u>753,500</u>	1,096,100	1,441,100	1,788,500	2,138,300	2,490,500	2,845,100	
Table 4.2 - Total Cap	pital Costs At End Of The Rate Stability Period													
	Total Capital Costs		•	<u>Year 10</u>										
	Total Capital Costs		-											
Table 4.3 - Revenue	Requirement Over The Rate Stability Period													
			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>
	Revenue Requirement													
				Year 10										
	Closing Rate Base (net of proposed Section 36.2	2 funding)		. 041 10										

Cavan Monaghan -InService Date: Nov-01-2023

EB-2019-0255 Schedule YYYY2 Redacted

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

\$ 2,098,225

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

**Year 10** 95,374

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

Section 36.2 Funding Amount Per Volume (m3)

Year 10 5.92

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue **Total Distribution Charge** 

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Total Expenses (B)

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)

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

**Project Year** 

841 9,282 28,037 1,104

1,945

20,148 23,624 65,918 78,246 37,319 86,066 101,870

24,045 78,798 102,843

24,465 24,886 79,902 79,350 103,815 104,788

25,306 80,454 105,760

26,147 \$ 25,727 81,558 81,006 <u>106,733</u>

107,705

**Total** 

204,472

654,373

858,845

Net Present Value





<u>1.00</u>

Community Expansion Cavan Monaghan - \_

InService Date: Nov-01-2023

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow Gross Capital

Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value

EB-2019-0255 Schedule YYYY2

Redacted

Page 3 of 3

## Schedule YYYY3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Cavan Monaghan - \_\_\_\_\_(MD)

Total Forecasted Customers 22 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 (natural gas)	Estimated Annual Savings per customer	Estimated Annual Savings	GHG per customer	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	5	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 7,252	7.2	-2.7	33	(12)
Electricity F/A	2	9%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 1,399	0.6	3.9	1	8
Electricity Baseboard	3	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 1,865	0.6	3.9	2	10
Propane	10	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 2,743	5.6	-1.1	54	(11)
Wood	2	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	NA	NA	NA
Other	1	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	22	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 13,259	13.9	4.1	90	(5)

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

<sup>2</sup> 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	<b> </b> -	-	-	-	-								

#### **Emission Factor Sources:**

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

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

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

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

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

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

### Notes:

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

## Schedule YYYY4 Enbridge Gas Community Expansion Project Proposal

# Cavan Monaghan - \_\_\_\_\_ (MD) Community Expansion Project Pipeline Construction Schedule

Task Name		2022								2023										2024																		
		Feb	M	ar Ap	or M	ay Ju	un	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Au	g Se	o Oc	t N	ov De	ec J	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	/ Dec
Environmental Assessments																																						
Permits & Approvals																																						
Leave to Construct Application and Approval																			<b>L</b>																			
Pre-Construction, Construction and Testing																										■												
In Service																																						

## Schedule YYYY5 Enbridge Gas Community Expansion Project Proposal



June 1, 2020

Mark Wilson
Enbridge Gas Inc.
Senior Advisor, Municipal and Stakeholder Relations
500 Consumers Road
Toronto, ON
M2J 1P8

Dear Mr. Wilson,

#### Re: Expression of Support for Natural Gas Expansion in the Township of Cavan Monaghan

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 Cavan Monaghan, I would like to formally express our interest to have unserved areas of the Township, as identified by Enbridge Gas, included on the list of projects Enbridge Gas proposes to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Program. The Council has requested that Enbridge consider

These are as per the attached plans. The Township requests that you consider the attached alternatives for servicing in lieu of your original proposed areas..

Based on the Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may include support for projects 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,

Scott McFadden, Mayor

Township of Cavan Monaghan

705-201-1026

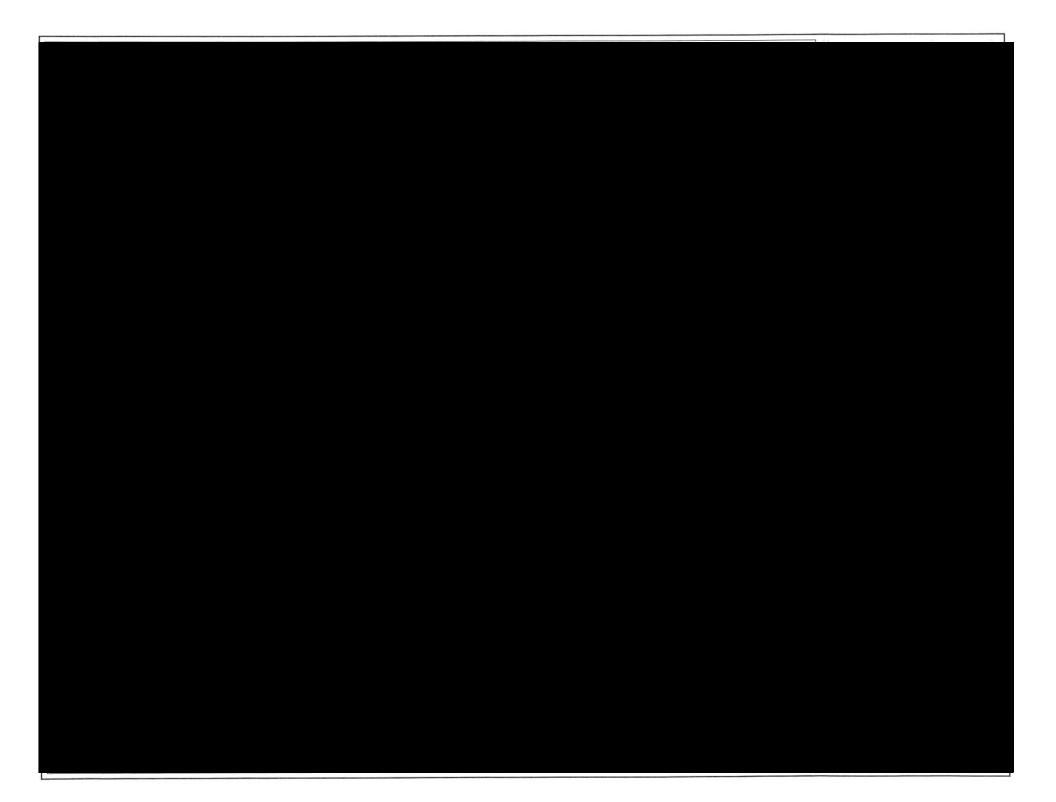
mayor@cavanmonaghan.net

988 County Road 10 Millbrook, Ontario LOA 1G0

www.cavanmonaghan.net

Phone: (705) 932-2929 Fax: (705) 932-3458

Email: services@cavanmonaghan.net



### Schedule YYYY6 Enbridge Gas Community Expansion Project Proposal

#### Cammission de l'Énergie de l'Ontario



Ontario RP-2004-0125 EB-2004-0198 2 Certificate of Public Convenience and Necessity 3 4 5 approval under section 8 of the Municipal Franchises Act, R.S.O. 1990, c. M.55, to construct works 6

7

8

Township of Cavan-Millbrook-North Monaghan.

**Enbridge Gas Distribution Inc.** 

This certificate replaces the certificates of the former municipalities that are now within the Township of Cavan-Millbrook-North Monaghan.

**DATED** at Toronto, July 16, 2004.

The Ontario Energy Board hereby grants

ONTARIO ENERGY BOARD

Peter H. O'Dell **Acting Board Secretary** 

to supply gas to the

DocID: OEB: 137VQ-0

## Schedule ZZZZ Enbridge Gas Community Expansion Project Proposal

Cavan Monaghan (\_\_\_\_\_SL)

### 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: Cavan Monaghan – (SL) C	ommunity 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> <li>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.</li> </ul>

### Part III – Description of and Support for Project Provide a general overview of the project, which is to include the Redacted following: communities to be connected, including whether the project would serve any on-reserve Indigenous communities; existing population of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size. Enbridge Gas is proposing to provide gas distribution service within the Township of Cavan Monaghan along \_\_\_\_\_. The proposed facilities will provide access to natural gas to a forecasted 28 customers (23 residential and 5 commercial / institutional). The proposed project will tie-in to an existing station at the intersection of \_ \_\_\_\_. The existing station will require a rebuild in order to accommodate the additional customers and a small amount of the inlet piping to the station requires looping. The proposed distribution system will run along \_\_\_\_\_ from the tie-in and ends at . The approximate length and size of the distribution pipelines required: Pipe Type Diameter (NPS) Length (m) Polyethylene 6,651 4 Steel 9 Please refer to Schedule ZZZZ1 for Project Map. Provide the annual and cumulative forecast of the number of customer 3.2 attachments over the ten-year rate stability period by residential, commercial/institutional and industrial sectors for each community. Indicate for each customer type whether the service to be provided would be firm or interruptible. Please refer to Schedule ZZZZ2, Table 3.2. 3.3 Provide the annual and cumulative forecast of volumes (in m<sup>3</sup>) over the tenyear rate stability period by residential, commercial/institutional and industrial sectors for each community. For the residential segment, the default value for the average consumption level is 2,200 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 ZZZZ2, 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 ZZZZ3, 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 ZZZZ4 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 ZZZZ5.
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 ZZZZ6 for Enbridge's CPCN for the Township of Cavan Monaghan (RP-2004-0125 / EB-2004-0198) which covers the entire area of the proposed project.

(Note: The Township of Cavan and the Village of Millbrook, previously part of Durham County, in 1974 became part of Peterborough County, and were amalgamated, along with North Monaghan, into one township - Cavan-Millbrook-North Monaghan - in 1998. In 2007, the township was renamed Cavan Monaghan.)

#### 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 ZZZZ2, 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 ZZZZ2, Table 4.3.

Part \	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$3,632,641
	Please refer to Schedule ZZZZ2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$129,737
	Please refer to Schedule ZZZZ2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$43.35
	Please refer to Schedule ZZZZ2, Table 5.3.

#### Part VI – Distribution Charge

6.1 Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.

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

Please refer to Schedule ZZZZ2, Table 6.1.

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

#### Part VII – Profitability Index / Benefit to Cost Ratio

Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.

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

Please refer to Schedule ZZZZ2, Table 7.1.

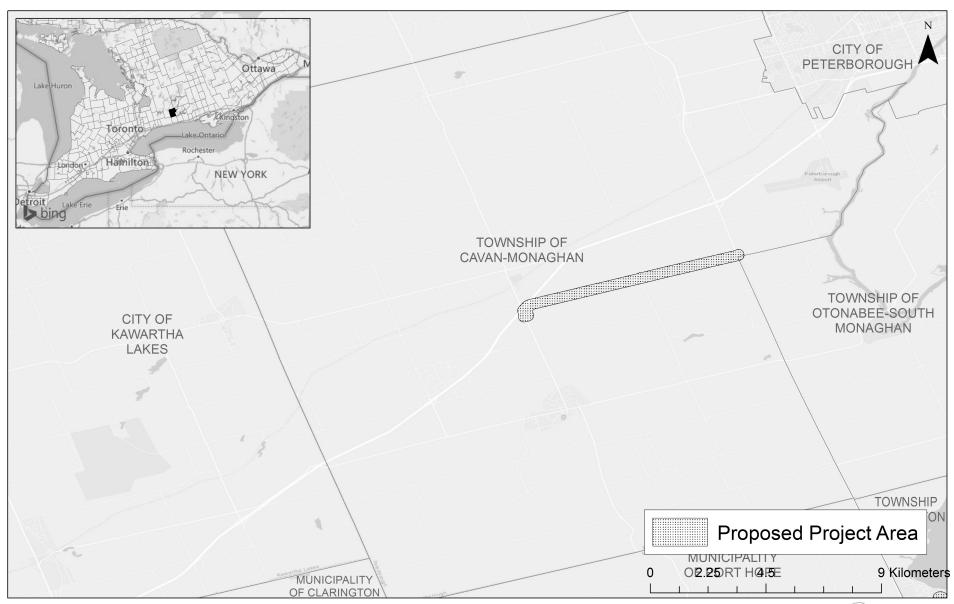
Provide, in a summary table that otherwise meets the requirements of section 7.1, the expected PI of the project without the proposed section 36.2 funding.

Please refer to Schedule ZZZZ2, Table 7.2.

Part	VIII – OEB Approvals
8.1	Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order).  • Leave to Construct
8.2	For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB's website and where applicable assume a written hearing process.  Please refer to Schedule ZZZZ4.

# Schedule ZZZZ1 Enbridge Gas Community Expansion Project Proposal

### Cavan Monaghan 2





# Schedule ZZZZ2 Enbridge Gas Community Expansion Project Proposal

Community Expansion	Cavan Monaghan (SL) InService Date: Nov-01-2023												EB-2019-029 Schedule ZZ Redacted	
Table 3.2 - Custome	er Attachments Over The Rate Stability Period													
	Customer Type	Firm / IT	Project Year	<u>1</u> 7	<u>2</u> 5	<u>3</u> 3	<u>4</u> 2	<u>5</u>	<u>6</u> 1	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	Residential	Firm		-		3	2	1		1	1	1	1	23
	Commercial Institutional	Firm Firm		-	3	'	-	-	-	-	-	-	-	4
	Agricultural	Firm		-	- 1	-	-	-	-	-	-	-	-	- 1
	Industrial	Firm		-		_	_	_	_	-	_	-	-	-
	Total Customers			<u>7</u>	<u>9</u>	<u>4</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>28</u>
	Cumulative Customers			7	16	20	22	23	24	25	26	27	28	
Table 3.3 - Annual a	and Cumulative Volumes Over The Rate Stabi	lity Period (m3)												
								Annı	ual Volumes -	- m3				
	Customer Type		Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	Residential			8,400	22,800	32,400	38,400	42,000	44,400	46,800	49,200	51,600	54,000	390,000
	Commercial			-	8,700	18,600	19,800	19,800	19,800	19,800	19,800	19,800	19,800	165,900
	Institutional			-	-	-	-	-	-	-	-	-	-	-
	Agricultural			-	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85,000
	Industrial Total Volumes			<u>8,400</u>	<u>36,500</u>	61,000	<u>68,200</u>	<u>71,800</u>	<u>74,200</u>	<u>76,600</u>	<u>79,000</u>	<u>-</u> <u>81,400</u>	<u>83,800</u>	<u>640,900</u>
	Total Volumes			<u>0,400</u>	<u>00,000</u>	<u>01,000</u>	<u>00,200</u>	<u>11,000</u>	<u>14,200</u>	<u>70,000</u>	<u>10,000</u>	<u>01,700</u>	<u>00,000</u>	<u>0-10,000</u>
								Cumula	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			8,400	31,200	63,600	102,000	144,000	188,400	235,200	284,400	336,000	390,000	
	Commercial			-	8,700	27,300	47,100	66,900	86,700	106,500	126,300	146,100	165,900	
	Institutional			-	-	-	-	-	-	-	-	-	-	
	Agricultural			-	5,000	15,000	25,000	35,000	45,000	55,000	65,000	75,000	85,000	
	Industrial			-	-	-	-	-	-	-	-	-	-	
	Total Volumes			<u>8,400</u>	<u>44,900</u>	<u>105,900</u>	<u>174,100</u>	<u>245,900</u>	<u>320,100</u>	<u>396,700</u>	<u>475,700</u>	<u>557,100</u>	640,900	
Table 4.2 - Total Ca	pital Costs At End Of The Rate Stability Perio	od												
	Total Capital Costs		_	<u>Year 10</u>										
	Total Capital Costs		_											
Table 4.3 - Revenue	Requirement Over The Rate Stability Period													
			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>
	Revenue Requirement													
				<u>Year 10</u>										
	Closing Rate Base (net of proposed Section 3	6.2 funding)												

**Community Expansion** 

Cavan Monaghan - \_\_\_\_ (SLINService Date: Nov-01-2023

EB-2019-0255 Schedule ZZZZ2 Redacted

<u>10</u>

15,865 \$

35,139 \$

19,274

14,182

17,066

31,248

14,603

17,618

32,221

15,024

18,170

<u>33,194</u>

15,444

18,722

34,166

**Total** 

121,707

147,407

269,114

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

\$ 3,632,641

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

<u>Year 10</u> 129,737

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

Section 36.2 Funding Amount Per Volume (m3)

<u>Year 10</u> 43.35

1,472

1,932

3,404

6,671

8,395

<u>15,066</u>

11,554

14,030

**25,584** 

13,131

15,686

<u>28,817</u>

13,762

16,514

30,276

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value

**Project Year** 





<u>1.00</u>

Community Expansion Cavan Monaghan - \_\_\_\_

InService Date: Nov-01-2023

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow Gross Capital

Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value

EB-2019-0255

Redacted

Schedule ZZZZ2

# Schedule ZZZZ3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Cavan Monaghan - \_\_\_\_\_ (SL)

Total Forecasted Customers 28 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 Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	6	21%			\$ 1,481						(16)
Electricity F/A Electricity Baseboard	3	9% 12%	,		\$ 1,481 \$ 1,481	-	,				10 13
Propane	12	44%						5.6		69	(13)
Wood	3	9%	. ,	N/A	N/A	•	N/A		NA	NA	NA
Other	1	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	28	100%	,	,		. ,	,			114	(6)

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

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

		Er	nission Factors	
	CO2	CH4	N2O	CO2e 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	<b> </b> -	-	-	-

#### **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)

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

### Notes:

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

# Schedule ZZZZ4 Enbridge Gas Community Expansion Project Proposal

# Cavan Monaghan - \_\_\_\_\_ (SL) Community Expansion Project Pipeline Construction Schedule

Task Nama		2022									2023												2024															
Task Name	Jan	Feb	M	ar Ap	or N	1ay Ju	un	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Ma	Ap	r Ma	y Jui	n Ju	ul 🏻 A	lug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Ар	r Ma	y Jun	Jul	Au	g Sep	о Ос	t N	lov De
Environmental Assessments																																						
Permits & Approvals																																						
Leave to Construct Application and Approval																																						
Pre-Construction, Construction and Testing																																						
In Service																																						

# Schedule ZZZZ5 Enbridge Gas Community Expansion Project Proposal



June 1, 2020

Mark Wilson
Enbridge Gas Inc.
Senior Advisor, Municipal and Stakeholder Relations
500 Consumers Road
Toronto, ON
M2J 1P8

Dear Mr. Wilson,

#### Re: Expression of Support for Natural Gas Expansion in the Township of Cavan Monaghan

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 Cavan Monaghan, I would like to formally express our interest to have unserved areas of the Township, as identified by Enbridge Gas, included on the list of projects Enbridge Gas proposes to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Program. The Council has requested that Enbridge consider

These are as per the attached plans. The Township requests that you consider the attached alternatives for servicing in lieu of your original proposed areas..

Based on the Guidelines issued by the OEB (EB-2019-0255), we are aware that Enbridge Gas Inc. may include support for projects 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,

Scott McFadden, Mayor

Township of Cavan Monaghan

705-201-1026

mayor@cavanmonaghan.net

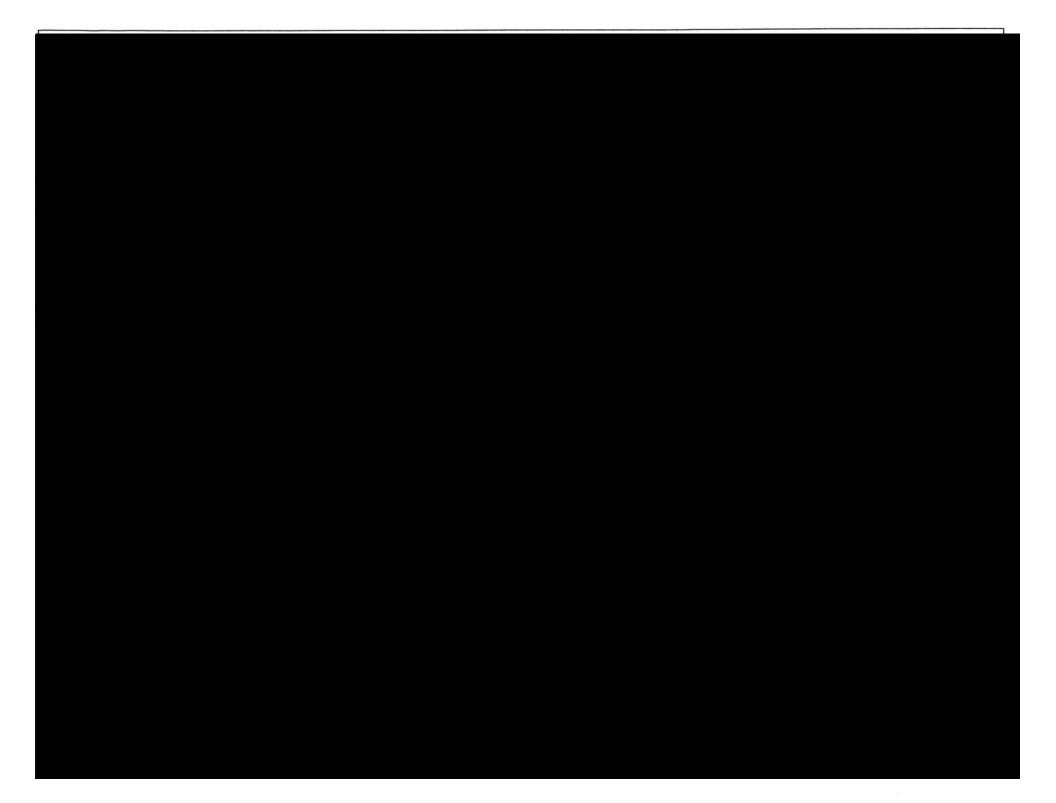
988 County Road 10 Millbrook, Ontario LOA 1G0

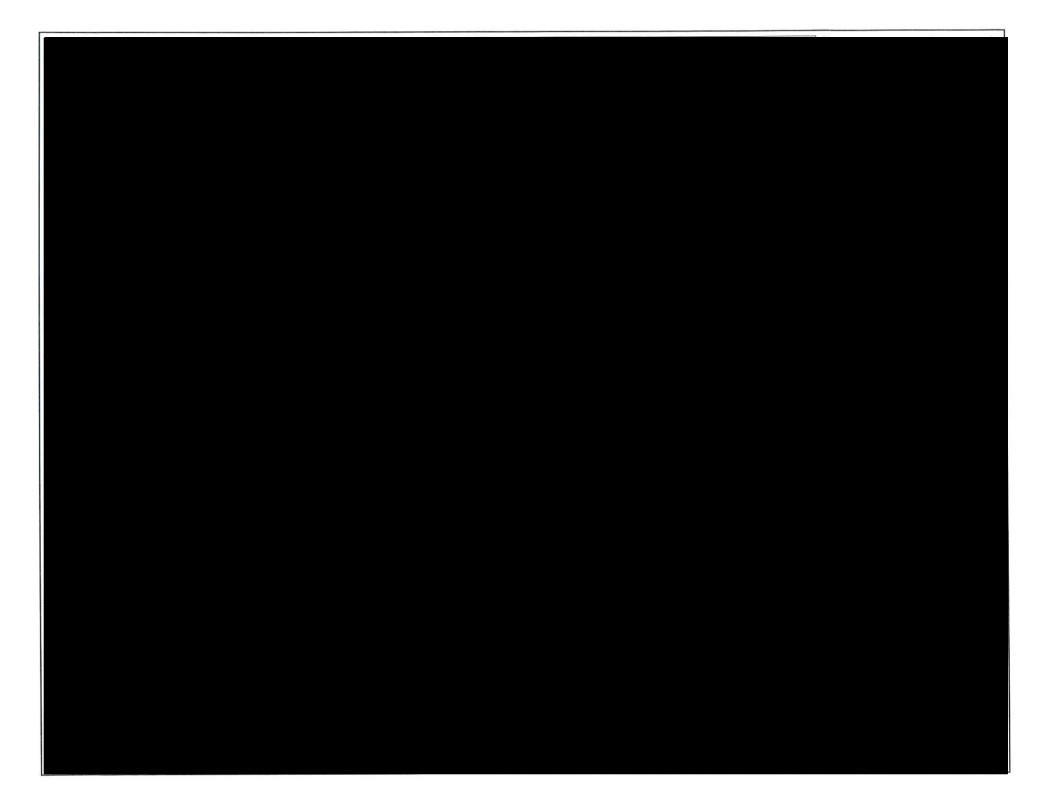
www.cavanmonaghan.net

Phone: (705) 932-2929 Fax: (705) 932-3458

Email: services@cavanmonaghan.net







# Schedule ZZZZ6 Enbridge Gas Community Expansion Project Proposal

#### Cammission de l'Énergie de l'Ontario



Ontario

RP-2004-0125

EB-2004-0198

2

3

4

6

7

8

#### Certificate of Public Convenience and Necessity

The Ontario Energy Board hereby grants

**Enbridge Gas Distribution Inc.** 

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

Township of Cavan-Millbrook-North Monaghan.

This certificate replaces the certificates of the former municipalities that are now within the Township of Cavan-Millbrook-North Monaghan.

**DATED** at Toronto, July 16, 2004.

ONTARIO ENERGY BOARD

Peter H. O'Dell **Acting Board Secretary** 

DocID: OEB: 137VQ-0

### Schedule 5A Enbridge Gas Community Expansion Project Proposal

**East Gwillimbury (North)** 

### 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: East Gwillimbury (North and East) Com	munity Expansion Project	
Address of Head Office:	Telephone Number:	
50 Keil Drive North	519-436-4600	
Chatham, ON N7M 5M1	319-430-4000	
Chatham, ON Will Swit		
Name of Individual to Contact:	Office Telephone Number:	
	519-436-5325	
Patrick McMahon	Cell Phone Number:	
	519-437-0759	
	Email Address:	
	patrick.mcmahon@enbridge.com	

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

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

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

Part	II – Description of Proponent's Technical Expertise and Financial Capability
2.1	Describe the proponent's technical expertise to develop, construct, operate and maintain a natural gas distribution system.  N/A
	IVA
2.2	<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

rt II	I – Description of and Sup	port for Project		
	Provide a general overview of the project, which is to include the			
acted	following: communities to be connected, including whether the project			
	would serve any on-reserve Indigenous communities; existing population			
	of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size.			
	Enbridge Gas is proposing to			
	the northern portion of the co			
	natural gas to a forecasted 42	22 customers (391 resid	dential, 22 commerc	ial / institutional
	and 9 industrial).			
	The proposed project will tie-	in to the existing systen	n at	and
	and run	along	to	(inclusive of
	subdivision off			
	the intersection of	and	to provide gas	service along
	,		and tie-in to the exis	sting system at
	the intersection of	and	<u>.</u> -	
	The proposed project will tie-	in to the existing systen	n at the intersection	of
	and and	d run along	to	The
	proposed project will tie-in to	the existing system on		of
	, and run	_ along	_ 10	
	An additional small segment	is proposed along	Detween _	
	and Some a			
	in the community of Holland Landing to expand the distribution system along and			
	or		(	anu
	, and along	c	λί	
	Three stations are proposed	to cut the existing high	pressure system dov	wn to distribution
	pressure to serve the community. These stations are located at the intersection of			
	and	, of the inte	rsection of	and
	, and at the inter	section of	and	•
	The approximate length and	size of the distribution p	pipelines required:	
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	2	23,950	
	Polyethylene	4	6187	
	Please refer to Schedule 5	A-1 for Project Map.		
		, ,		
ı				

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 5A-2, Table 3.2. 3.3 Provide the annual and cumulative forecast of volumes (in m<sup>3</sup>) over the tenyear rate stability period by residential, commercial/institutional and industrial sectors for each community. For the residential segment, the default value for the average consumption level is 2,200 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 5A-2, Table 3.3. 3.4 Provide the estimated conversion costs to convert each of the existing heating systems (e.g., propane forced air, oil forced air, electric forced air and electric baseboard) and water-heating systems (e.g., electric, oil and propane) to natural gas. To the extent available, provide information on the current proportion of customers on each type of heating system. Provide the estimated annual costs of the existing alternative fuels relative to natural gas, including the annual savings with natural gas. The calculation of household energy costs for natural gas should include conversion costs, commodity costs, associated upstream transportation costs to Ontario, incremental CNG and LNG costs (where applicable), costs under the federal Greenhouse Gas Pollution Pricing Act and distribution costs. The assessment of household energy cost impacts should include greenhouse gas (GHG) emission estimates (whether positive or negative) related to converting existing heating and water heating systems to natural gas. The major assumptions (e.g., conversion factors) used in the calculations must also be provided.

Please refer to Schedule 5A-3, Table 3.4.

3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule 5A-4 for Proposed Construction Schedule.
3.6	Provide letter(s) from the Band Council(s) and/or local government, as applicable, stating support for the project, including details of any commitment to financial support.
	Please refer to Schedule 5A-5.
3.7	Provide a copy of the Certificate of Public Convenience and Necessity (Certificate) for the area to be served, if held by the project proponent. If not, indicate whether another entity holds the Certificate for the area to be served, if known, and if so, identify the Certificate holder.
	Where the project proponent holds a Certificate for the areas to be served, specify the boundaries of the Certificate and indicate whether the boundaries encompass the entire area that would be supplied by the proposed project.
	Please refer to Schedule 5A-6 for Enbridge's CPCN for the Town of East Gwillimbury (FBC 108) which covers the entire area of the proposed project.
	(Note: The Town of East Gwillimbury was formed by the amalgamation of the Township of East Gwillimbury with all the previously incorporated villages and hamlets within the township.)
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 5A-2, Table 4.2.

4.3 Provide the total annual forecast revenue requirement of the project over the ten-year rate stability period (using fully allocated OM&A costs) and rate base amount at the end of year ten.

Complete the tables below:

#### **Revenue Requirement**

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).

Please refer to Schedule 5A-2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$8,373,365
	Please refer to Schedule 5A-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$19,842
	Please refer to Schedule 5A-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$4.37
	Please refer to Schedule 5A-2, Table 5.3.

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

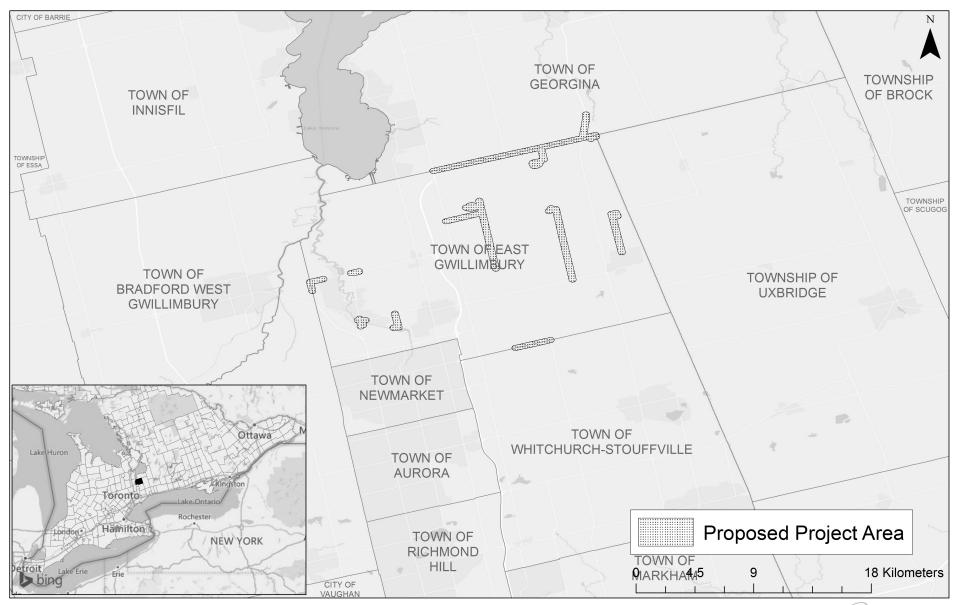
Part \	VII – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.
	The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a "portfolio" of projects).
	Please refer to Schedule 5A-2, Table 7.1.
7.2	Provide, in a summary table that otherwise meets the requirements of section 7.1, the expected PI of the project without the proposed section 36.2 funding.
	Please refer to Schedule 5A-2, Table 7.2.

Part	VIII – OEB Approvals
8.1	Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order).  • Leave to Construct
8.2	For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB's website and where applicable assume a written hearing process.  Please refer to Schedule 5A-4.

### Schedule 5A-1 Enbridge Gas Community Expansion Project Proposal

**East Gwillimbury (North)** 

### East Gwillimbury





# Schedule 5A-2 Enbridge Gas Community Expansion Project Proposal

**East Gwillimbury (North)** 

InService Date: Nov-01-2023												Schedule 5 Redacted	
Table 3.2 - Customer Attachments Over The Rate Stability Period													
Customer Type	Firm / IT	<b>Project Year</b>	<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		106	94	35	25	20	24	21	24	22	20	391
Commercial	Firm		-	10	3	2	2	2	-	-	-	-	19
Institutional	Firm		-	-	-	-	-	-	-	-	-	-	-
Agricultural	Firm		-	2	1	-	-	-	-	-	-	-	3
Industrial	Firm	_	-	3	2	2	1	1	-	-	-	-	9
Total Customers			<u>106</u>	<u>109</u>	<u>41</u>	<u>29</u>	<u>23</u>	<u>27</u>	<u>21</u>	<u>24</u>	<u>22</u>	<u>20</u>	<u>422</u>
Cumulative Customers			106	215	256	285	308	335	356	380	402	422	
Table 3.3 - Annual and Cumulative Volumes Over The Rate Stability Period	I (m3)												
							Ann	ual Volumes					
<u>Customer Type</u>		Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
Residential			127,200	367,200	522,000	594,000	648,000	700,800	754,800	808,800	864,000	914,400	6,301,200
Commercial			-	18,400	41,700	50,300	57,700	65,100	68,800	68,800	68,800	68,800	508,400
Institutional			-	-	-	-	-	-	-	-	-	-	-
Agricultural			-	11,200	27,400	32,400	32,400	32,400	32,400	32,400	32,400	32,400	265,400
Industrial			-	150,000	400,000	600,000	750,000	850,000	900,000	900,000	900,000	900,000	6,350,000
Total Volumes			<u>127,200</u>	<u>546,800</u>	<u>991,100</u>	<u>1,276,700</u>	<u>1,488,100</u>	<u>1,648,300</u>	<u>1,756,000</u>	<u>1,810,000</u>	<u>1,865,200</u>	<u>1,915,600</u>	<u>13,425,000</u>
							Cumu	lative Volume	es - m3				
Customer Type		Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	
Residential		Project Year	<u>1</u> 127,200	494,400	1,016,400	4 1,610,400	<u>5</u> 2,258,400	<u>6</u> 2,959,200	7 3,714,000	4,522,800	5,386,800	6,301,200	
Residential Commercial		Project Year		_		4 1,610,400 110,400	<u>5</u>	<u>6</u>	<u>7</u>				
Residential Commercial Institutional		Project Year	127,200	494,400 18,400 -	1,016,400 60,100 -	110,400	2,258,400 168,100	2,959,200 233,200	3,714,000 302,000	4,522,800 370,800 -	5,386,800 439,600	6,301,200 508,400 -	
Residential Commercial Institutional Agricultural		<u>Project Year</u>	127,200	494,400 18,400 - 11,200	1,016,400 60,100 - 38,600	110,400 - 71,000	2,258,400 168,100 - 103,400	2,959,200 233,200 - 135,800	3,714,000 302,000 - 168,200	4,522,800 370,800 - 200,600	5,386,800 439,600 - 233,000	6,301,200 508,400 - 265,400	
Residential Commercial Institutional Agricultural Industrial		Project Year	127,200 - - - -	494,400 18,400 - 11,200 150,000	1,016,400 60,100 - 38,600 550,000	110,400 - 71,000 1,150,000	2,258,400 168,100 - 103,400 1,900,000	2,959,200 233,200 - 135,800 2,750,000	3,714,000 302,000 - 168,200 3,650,000	4,522,800 370,800 - 200,600 4,550,000	5,386,800 439,600 - 233,000 5,450,000	6,301,200 508,400 - 265,400 6,350,000	
Residential Commercial Institutional Agricultural		Project Year	127,200 - - -	494,400 18,400 - 11,200	1,016,400 60,100 - 38,600	110,400 - 71,000	2,258,400 168,100 - 103,400	2,959,200 233,200 - 135,800	3,714,000 302,000 - 168,200	4,522,800 370,800 - 200,600	5,386,800 439,600 - 233,000	6,301,200 508,400 - 265,400	
Residential Commercial Institutional Agricultural Industrial		Project Year	127,200 - - - -	494,400 18,400 - 11,200 150,000	1,016,400 60,100 - 38,600 550,000	110,400 - 71,000 1,150,000	2,258,400 168,100 - 103,400 1,900,000	2,959,200 233,200 - 135,800 2,750,000	3,714,000 302,000 - 168,200 3,650,000	4,522,800 370,800 - 200,600 4,550,000	5,386,800 439,600 - 233,000 5,450,000	6,301,200 508,400 - 265,400 6,350,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes  Table 4.2 - Total Capital Costs At End Of The Rate Stability Period		Project Year	127,200 - - - -	494,400 18,400 - 11,200 150,000	1,016,400 60,100 - 38,600 550,000	110,400 - 71,000 1,150,000	2,258,400 168,100 - 103,400 1,900,000	2,959,200 233,200 - 135,800 2,750,000	3,714,000 302,000 - 168,200 3,650,000	4,522,800 370,800 - 200,600 4,550,000	5,386,800 439,600 - 233,000 5,450,000	6,301,200 508,400 - 265,400 6,350,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	127,200 - - - - - 127,200	494,400 18,400 - 11,200 150,000	1,016,400 60,100 - 38,600 550,000	110,400 - 71,000 1,150,000	2,258,400 168,100 - 103,400 1,900,000	2,959,200 233,200 - 135,800 2,750,000	3,714,000 302,000 - 168,200 3,650,000	4,522,800 370,800 - 200,600 4,550,000	5,386,800 439,600 - 233,000 5,450,000	6,301,200 508,400 - 265,400 6,350,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes  Table 4.2 - Total Capital Costs At End Of The Rate Stability Period		Project Year	127,200 - - - - - 127,200	494,400 18,400 - 11,200 150,000	1,016,400 60,100 - 38,600 550,000	110,400 - 71,000 1,150,000	2,258,400 168,100 - 103,400 1,900,000	2,959,200 233,200 - 135,800 2,750,000	3,714,000 302,000 - 168,200 3,650,000	4,522,800 370,800 - 200,600 4,550,000	5,386,800 439,600 - 233,000 5,450,000	6,301,200 508,400 - 265,400 6,350,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes  Table 4.2 - Total Capital Costs At End Of The Rate Stability Period  Total Capital Costs			127,200 - - - - - 127,200	494,400 18,400 - 11,200 150,000	1,016,400 60,100 - 38,600 550,000	110,400 - 71,000 1,150,000	2,258,400 168,100 - 103,400 1,900,000	2,959,200 233,200 - 135,800 2,750,000	3,714,000 302,000 - 168,200 3,650,000	4,522,800 370,800 - 200,600 4,550,000	5,386,800 439,600 - 233,000 5,450,000	6,301,200 508,400 - 265,400 6,350,000 13,425,000	Total
Residential Commercial Institutional Agricultural Industrial Total Volumes  Table 4.2 - Total Capital Costs At End Of The Rate Stability Period  Total Capital Costs		Project Year	127,200 - - - - - 127,200	494,400 18,400 - 11,200 150,000	1,016,400 60,100 - 38,600 550,000	110,400 - 71,000 1,150,000	2,258,400 168,100 - 103,400 1,900,000	2,959,200 233,200 - 135,800 2,750,000	3,714,000 302,000 - 168,200 3,650,000	4,522,800 370,800 - 200,600 4,550,000	5,386,800 439,600 - 233,000 5,450,000	6,301,200 508,400 - 265,400 6,350,000	<u>Total</u>
Residential Commercial Institutional Agricultural Industrial Total Volumes  Table 4.2 - Total Capital Costs At End Of The Rate Stability Period  Total Capital Costs  Table 4.3 - Revenue Requirement Over The Rate Stability Period			127,200 - - - - - 127,200	494,400 18,400 - 11,200 150,000	1,016,400 60,100 - 38,600 550,000	110,400 - 71,000 1,150,000	2,258,400 168,100 - 103,400 1,900,000	2,959,200 233,200 - 135,800 2,750,000	3,714,000 302,000 - 168,200 3,650,000	4,522,800 370,800 - 200,600 4,550,000	5,386,800 439,600 - 233,000 5,450,000	6,301,200 508,400 - 265,400 6,350,000 13,425,000	<u>Total</u>

EB-2019-0255

Community Expansion East Gwillimbury (North and East)

**Community Expansion** 

East Gwillimbury (North and East)
InService Date: Nov-01-2023

\$ 8,373,365

Section 36.2 Funding Needed to Support the Project

Table 5.1 - Total Amount of Section 36.2 Funding

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense Municipal Tax

Income Tax

T. . . .

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

**Gross Capital** 

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

Year 10 \$ 19,842

> <u>Year 10</u> 4.37

**Project Year** 231,935 \$ 1,622,449 22,289 79,156 128,589 154,902 174,239 190,835 203,969 213,431 223,104 29,256 125,764 227,953 293,641 342,263 379,109 403,880 416,300 428,996 440,588 3,087,750 51,545 356,542 <u>448,543</u> <u>516,502</u> <u>569,944</u> 607,849 629,731 672,523 \$ 4,710,199

EB-2019-0255

Schedule 5A-2

Redacted

Net Present Value







<u>1.00</u>

Page 2 of 3

Community Expansion East Gwillimbury (North and East) InService Date: Nov-01-2023

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

**Gross Capital** 

Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value







Page 3 of 3

EB-2019-0255 Schedule 5A-2 Redacted

# Schedule 5A-3 Enbridge Gas Community Expansion Project Proposal

**East Gwillimbury (North)** 

#### Section 3.4 East Gwillimbury (North and East)

Total Forecasted Customers 422 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	GHG per customer Existing Fuel	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	89	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 139,111	7.2	-2.7	636	(237)
Electricity F/A	38	9%	\$ 5,000	\$ 2,187	\$ 1,481	\$ 706	\$ 26,831	0.6	3.9	22	149
Electricity Baseboard	51	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 35,775	0.6	3.9	30	198
Propane	186	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 52,608	5.6	-1.1	1,038	(202)
Wood	38	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	NA	NA	NA
Other	21	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	422	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 254,325	13.9	4.1	1,725	(92)

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

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

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

#### **Emission Factor Sources:**

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

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

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

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

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

Rate 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.

# Schedule 5A-4 Enbridge Gas Community Expansion Project Proposal

**East Gwillimbury (North)** 

# East Gwillimbury (North and East) Community Expansion Project Pipeline Construction Schedule

Task Name		2022					2023						2024																						
		Feb	Ma	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov [	Dec .	Jan Fe	eb Ma	ır 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 5A-5 Enbridge Gas Community Expansion Project Proposal

**East Gwillimbury (North)** 



#### Mike Molinari, P.Eng.

General Manager Community Infrastructure & Environmental Services 905-478-3814 mmolinari@eastgwillimbury.ca

June 4, 2020

EB-2019-0255 Schedule 5A-5

Steve McGivery – Director GTA East Operations ENBRIDGE GAS INC.
Technology & Operations Centre
101 Honda Blvd. Markham, Ontario L6C 0M6

Dear Regional Director:

Re: Expression of Support for Natural Gas Expansion to the Town of East Gwillimbury

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 Town of East Gwillimbury, I would like to formally express our interest to have unserved areas in East Gwillimbury West and East Gwillimbury North, as outlined for Enbridge, included on Enbridge Gas' list of projects being proposed to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Program.

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

Natural gas is the most common, affordable heating fuel in Ontario. We fully support the efforts of Enbridge Gas Inc., the OEB and the Ministry of Energy, Northern

Development and Mines. We look forward to working together to expand natural gas access in our community to attract new opportunities, help create jobs and lower monthly costs for our residents.

Sincerely,

Mike Molinari, P.Eng.

General Manager,

Community Infrastructure & Environmental Services

MM/cm

cc: Mark Wilson

Sr. Advisor, Municipal & Stakeholder Relations

# Schedule 5A-6 Enbridge Gas Community Expansion Project Proposal

**East Gwillimbury (North)** 

F.B.C. 108

IN THE MATTER OF The Municipal Franchises Act, Chapter 249 R. S. O. 1950 Section 8 as amended, and EB-2019-0255 Schedule 5A-6

IN THE MATTER OF an Application by The Consumers' Gas Company of Toronto for a certificate of public convenience and necessity to construct works and to supply natural gas to the inhabitants of the Township of East Gwillimbury in the County of York

BEFORE:

A. R. Crosier, Chairman

Monday, the 10th

V. R. Howard, Commissioner

) day of June, 1957.

# CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

OF Toronto (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 10th day of June, 1957, 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 BOTH ORDER THAT a Certificate of Public Convenience and Mecessity be and the same is hereby granted to The Consumers' Gas Company of Toronto for the supply of natural gas to the inhabitants of the Township of East Gwillimbury and for the construction of the works necessary therefor.
- 2. The Board fixes the costs of this Application at \$10.00 payable forthwith by the Applicant.

DATED at Toronto this 24 may of fune 195

ONTARIO FUEL BOARD

Chalman

Commissioner

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

IN THE MATTER OF an Application by The Consumers' Gas Company of Toronto for a certificate of public convenience and necessity to construct works and to supply natural gas to the inhabitants of the Township of East Gwillimbury in the County of York

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

ZIMMERMAN, HAYWOOD & TURVILLE 111 Richmond Street West, TORONTO, Ontario.

# Schedule 5B 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: Lisle and Tioga 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> <li>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.</li> </ul>

	I – Description of and Sup	port for Project		
3.1 Redacted	Provide a general overvieuro following: communities t			ct
	would serve any on-reser			
	of each community by re			
	sectors; routing; length of	of pipeline; and nomi	nal pipe size.	
	Enbridge Gas is proposing	. •		
	of Lisle and Tioga in the To will provide access to nature			
	11 commercial / institutional		307 Customers (333 resid	ieriliai,
	11 commercial / mondatione	ai, and i maddinary.		
	The proposed project will ti	e-in to an existing sys	tem on	in the
	community of Everett, appr	roximately	At t	his
	location, a station is propos			
	communities. The propose			
	to Approximately 18 km of dis	, picking up services i	n Tioga along the way.	tion
	Approximately 16 km of dis	stribution piping is prop	osea within the communi	แยร.
	The approximate length an	d size of the supply la	terals required:	
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	4	9,400	
	The approximate length and si	ize of the distribution nin	elines required:	
	The approximate length and of	20 of the distribution pip	omioo roquioa.	
	Pipe Type	Diameter (NPS)	Length (m)	
	Polyethylene	2	17,800	
	Disease materials October 11 5	D 4 fan Dua'r 1841		
	Please refer to Schedule 5	B-1 for Project Map.		
3.2	Provide the annual and c	umulative forecast o	f the number of custome	er
J. <u>L</u>	attachments over the ten			
	commercial/institutional			
	Indicate for each custom	<b>5</b> -	service to be provided	
	would be firm or interrup	tible.		
	Diagon water to Outrost to 5	D O Table O O		
	Please refer to Schedule 5	B-∠, Table 3.2.		

3.3	Provide the annual and cumulative forecast of volumes (in m³) over the ten- year rate stability period by residential, commercial/institutional and industrial sectors for each community.
	For the residential segment, the default value for the average consumption level is 2,200 m³ per year. A proponent that has more accurate information regarding the annual consumption for residential customers in a given community may use that value, in which case it must explain how it has determined that it is more accurate than the default.
	Please refer to Schedule 5B-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 5B-3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule 5B-4 for Proposed Construction Schedule.
3.6	Provide letter(s) from the Band Council(s) and/or local government, as applicable, stating support for the project, including details of any commitment to financial support.
	Please refer to Schedule 5B-5.

Provide a copy of the Certificate of Public Convenience and Necessity (Certificate) for the area to be served, if held by the project proponent. If not, indicate whether another entity holds the Certificate for the area to be served, if known, and if so, identify the Certificate holder.

Where the project proponent holds a Certificate for the areas to be served, specify the boundaries of the Certificate and indicate whether the boundaries encompass the entire area that would be supplied by the proposed project.

Please refer to Schedule 5B-6 for Enbridge's CPCN for the Township of Adjala-Tosorontio (EBC 246) which covers the entire area of the proposed project.

#### Part IV – Cost of Project

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

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

4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten).

Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).

For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs.

Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences.

Please refer to Schedule 5B-2, Table 4.2.

4.3 Provide the total annual forecast revenue requirement of the project over the ten-year rate stability period (using fully allocated OM&A costs) and rate base amount at the end of year ten.

Complete the tables below:

#### **Revenue Requirement**

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).

Please refer to Schedule 5B-2, Table 4.3.

Part \	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$9,657,355
	Please refer to Schedule 5B-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$26,314
	Please refer to Schedule 5B-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$9.27
	Please refer to Schedule 5B-2, Table 5.3.

#### Part VI – Distribution Charge

Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.

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

Please refer to Schedule 5B-2, Table 6.1.

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

#### Part VII – Profitability Index / Benefit to Cost Ratio

Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.

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

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

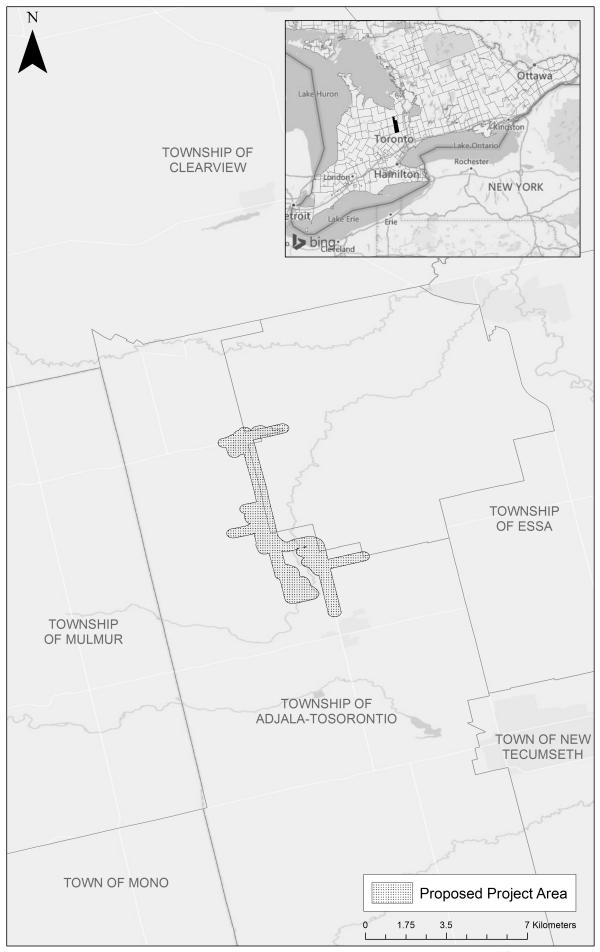
Provide, in a summary table that otherwise meets the requirements of section 7.1, the expected PI of the project without the proposed section 36.2 funding.

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

Part	VIII – OEB Approvals
8.1	Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order).  • Leave to Construct
8.2	For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB's website and where applicable assume a written hearing process.  Please refer to Schedule 5B-4.

# Schedule 5B-1 Enbridge Gas Community Expansion Project Proposal

# Lisle & Tioga





# Schedule 5B-2 Enbridge Gas Community Expansion Project Proposal

InService Date: Nov-01-2023												Schedule 5l Redacted	
Table 3.2 - Customer Attachments Over The Rate Stability Period													
Customer Type	Firm / IT	<b>Project Year</b>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u> 22	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
Residential	Firm		96	85	32	23	18	22	19	<u>8</u> 22	20	18	355
Commercial	Firm		-	4	2	1	-	-	-	-	-	-	7
Institutional	Firm		-	1	-	-	-	-	-	-	-	-	1
Agricultural	Firm		-	2	1	-	-	-	-	-	-	-	3
Industrial Table 2 and a second	Firm		-	1	-	- 04	-	-	-	-	-	- 10	1
Total Customers			<u>96</u>	<u>93</u>	<u>35</u>	<u>24</u>	<u>18</u>	<u>22</u>	<u>19</u>	<u>22</u>	<u>20</u>	<u>18</u>	<u>367</u>
Cumulative Customers			96	189	224	248	266	288	307	329	349	367	
Table 3.3 - Annual and Cumulative Volumes Over The Rate Stability Period (	m3)												
		<b>-</b>					Ann	ual Volumes					
Customer Type		Project Year	115.000	2	3	4	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	9	<u>10</u>	<u>Total</u>
Residential			115,200	332,400	472,800	538,800	588,000	636,000	685,200	734,400	784,800	830,400	5,718,000
Commercial			-	6,100	14,600	18,200	19,400	19,400	19,400	19,400	19,400	19,400	155,300
Institutional			-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
Agricultural Industrial			-	11,200	32,400	42,400	42,400	42,400	42,400	42,400	42,400	42,400	340,400
Total Volumes			<u>115,200</u>	50,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	850,000
Total Volumes			115,200	<u>424,700</u>	<u>669,800</u>	<u>749,400</u>	<u>799,800</u>	<u>847,800</u>	<u>897,000</u>	<u>946,200</u>	<u>996,600</u>	<u>1,042,200</u>	<u>7,488,700</u>
							_	lative Volume					
Customer Type		Project Year	1	<u>2</u>	3	4	<u>5</u>	<u>6</u>	<u>7</u>	8	9	10	
Residential		<u>Project Year</u>	<u>1</u> 115,200	447,600	920,400	4 1,459,200	<u>5</u> 2,047,200	<u>6</u> 2,683,200	<b>7</b> 3,368,400	4,102,800	4,887,600	5,718,000	
Residential Commercial		Project Year		447,600 6,100	920,400 20,700	38,900	5 2,047,200 58,300	<u>6</u> 2,683,200 77,700	3,368,400 97,100	4,102,800 116,500	4,887,600 135,900	5,718,000 155,300	
Residential Commercial Institutional		<u>Project Year</u>	115,200 - -	447,600 6,100 25,000	920,400 20,700 75,000	38,900 125,000	5,047,200 58,300 175,000	2,683,200 77,700 225,000	3,368,400 97,100 275,000	4,102,800 116,500 325,000	4,887,600 135,900 375,000	5,718,000 155,300 425,000	
Residential Commercial Institutional Agricultural		Project Year		447,600 6,100 25,000 11,200	920,400 20,700 75,000 43,600	38,900 125,000 86,000	5 2,047,200 58,300 175,000 128,400	2,683,200 77,700 225,000 170,800	3,368,400 97,100 275,000 213,200	4,102,800 116,500 325,000 255,600	4,887,600 135,900 375,000 298,000	5,718,000 155,300 425,000 340,400	
Residential Commercial Institutional Agricultural Industrial		Project Year	115,200 - - - -	447,600 6,100 25,000 11,200 50,000	920,400 20,700 75,000 43,600 150,000	38,900 125,000 86,000 250,000	2,047,200 58,300 175,000 128,400 350,000	2,683,200 77,700 225,000 170,800 450,000	3,368,400 97,100 275,000 213,200 550,000	4,102,800 116,500 325,000 255,600 650,000	4,887,600 135,900 375,000 298,000 750,000	5,718,000 155,300 425,000 340,400 850,000	
Residential Commercial Institutional Agricultural		Project Year	115,200 - -	447,600 6,100 25,000 11,200	920,400 20,700 75,000 43,600	38,900 125,000 86,000	5 2,047,200 58,300 175,000 128,400	2,683,200 77,700 225,000 170,800	3,368,400 97,100 275,000 213,200	4,102,800 116,500 325,000 255,600	4,887,600 135,900 375,000 298,000	5,718,000 155,300 425,000 340,400	
Residential Commercial Institutional Agricultural Industrial		Project Year	115,200 - - - -	447,600 6,100 25,000 11,200 50,000	920,400 20,700 75,000 43,600 150,000	38,900 125,000 86,000 250,000	2,047,200 58,300 175,000 128,400 350,000	2,683,200 77,700 225,000 170,800 450,000	3,368,400 97,100 275,000 213,200 550,000	4,102,800 116,500 325,000 255,600 650,000	4,887,600 135,900 375,000 298,000 750,000	5,718,000 155,300 425,000 340,400 850,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes  Table 4.2 - Total Capital Costs At End Of The Rate Stability Period		Project Year	115,200 - - - -	447,600 6,100 25,000 11,200 50,000	920,400 20,700 75,000 43,600 150,000	38,900 125,000 86,000 250,000	2,047,200 58,300 175,000 128,400 350,000	2,683,200 77,700 225,000 170,800 450,000	3,368,400 97,100 275,000 213,200 550,000	4,102,800 116,500 325,000 255,600 650,000	4,887,600 135,900 375,000 298,000 750,000	5,718,000 155,300 425,000 340,400 850,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes		Project Year	115,200 - - - - - 115,200	447,600 6,100 25,000 11,200 50,000	920,400 20,700 75,000 43,600 150,000	38,900 125,000 86,000 250,000	2,047,200 58,300 175,000 128,400 350,000	2,683,200 77,700 225,000 170,800 450,000	3,368,400 97,100 275,000 213,200 550,000	4,102,800 116,500 325,000 255,600 650,000	4,887,600 135,900 375,000 298,000 750,000	5,718,000 155,300 425,000 340,400 850,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes  Table 4.2 - Total Capital Costs At End Of The Rate Stability Period		Project Year	115,200 - - - - - 115,200	447,600 6,100 25,000 11,200 50,000	920,400 20,700 75,000 43,600 150,000	38,900 125,000 86,000 250,000	2,047,200 58,300 175,000 128,400 350,000	2,683,200 77,700 225,000 170,800 450,000	3,368,400 97,100 275,000 213,200 550,000	4,102,800 116,500 325,000 255,600 650,000	4,887,600 135,900 375,000 298,000 750,000	5,718,000 155,300 425,000 340,400 850,000	
Residential Commercial Institutional Agricultural Industrial Total Volumes  Table 4.2 - Total Capital Costs At End Of The Rate Stability Period  Total Capital Costs  Table 4.3 - Revenue Requirement Over The Rate Stability Period		Project Year	115,200 - - - - - 115,200	447,600 6,100 25,000 11,200 50,000	920,400 20,700 75,000 43,600 150,000	38,900 125,000 86,000 250,000	2,047,200 58,300 175,000 128,400 350,000	2,683,200 77,700 225,000 170,800 450,000	3,368,400 97,100 275,000 213,200 550,000	4,102,800 116,500 325,000 255,600 650,000	4,887,600 135,900 375,000 298,000 750,000	5,718,000 155,300 425,000 340,400 850,000	<u>Total</u>
Residential Commercial Institutional Agricultural Industrial Total Volumes  Table 4.2 - Total Capital Costs At End Of The Rate Stability Period  Total Capital Costs			115,200 - - - - - 115,200	447,600 6,100 25,000 11,200 50,000	920,400 20,700 75,000 43,600 150,000	38,900 125,000 86,000 250,000	2,047,200 58,300 175,000 128,400 350,000	2,683,200 77,700 225,000 170,800 450,000	3,368,400 97,100 275,000 213,200 550,000	4,102,800 116,500 325,000 255,600 650,000	4,887,600 135,900 375,000 298,000 750,000	5,718,000 155,300 425,000 340,400 850,000 7,488,700	<u>Total</u>
Residential Commercial Institutional Agricultural Industrial Total Volumes  Table 4.2 - Total Capital Costs At End Of The Rate Stability Period  Total Capital Costs  Table 4.3 - Revenue Requirement Over The Rate Stability Period			115,200 - - - - - 115,200	447,600 6,100 25,000 11,200 50,000	920,400 20,700 75,000 43,600 150,000	38,900 125,000 86,000 250,000	2,047,200 58,300 175,000 128,400 350,000	2,683,200 77,700 225,000 170,800 450,000	3,368,400 97,100 275,000 213,200 550,000	4,102,800 116,500 325,000 255,600 650,000	4,887,600 135,900 375,000 298,000 750,000	5,718,000 155,300 425,000 340,400 850,000 7,488,700	<u>Total</u>

EB-2019-0255

Community Expansion Lisle and Tioga

**Community Expansion** 

Lisle and Tioga

InService Date: Nov-01-2023

Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue

**Total Distribution Charge** 

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

**Gross Capital** 

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

EB-2019-0255 Schedule 5B-2 Redacted

\$ 9,657,355

<u>Year 10</u> 26,314

> Year 10 9.27

**Project Year** 166,536 \$ 1,174,441 20,186 66,165 100,755 114,914 124,061 132,472 141,093 149,714 158,546 26,496 97,681 154,054 172,362 183,954 194,994 206,310 217,626 229,218 239,706 1,722,401 46,682 <u>163,846</u> 254,809 <u>287,276</u> 327,466 <u>347,403</u> <u>367,340</u> <u>406,242</u> <u>\$ 2,896,842</u>

Net Present Value







<u>1.00</u>

InService Date: Nov-01-2023

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

**Gross Capital** 

Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value

Page 3 of 3

EB-2019-0255 Schedule 5B-2 Redacted

# Schedule 5B-3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Lisle and Tioga

Total Forecasted Customers 367 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	GHG per customer Existing Fuel	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	77	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 120,980	7.2	-2.7	553	(206)
Electricity F/A	33	9%						0.6			129
Electricity Baseboard	44	12%				\$ 706	\$ 31,112	0.6	3.9	26	172
Propane	161	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 45,752	5.6	-1.1	902	(176)
Wood	33	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	NA	NA	NA
Other	18	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	367	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 221,178	13.9	4.1	1,500	(80)

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

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

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

## Emission Factor Sources:

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

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

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

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

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

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

#### Notes:

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

# Schedule 5B-4 Enbridge Gas Community Expansion Project Proposal

# Lisle and Tioga Community Expansion Project Pipeline Construction Schedule

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

# Schedule 5B-5 Enbridge Gas Community Expansion Project Proposal



# THE CORPORATION OF THE TOWNSHIP OF ADJALA – TOSORONTIO

7855 Sideroad 30 \* Alliston, Ontario \* L9R 1V1 Telephone: (705) 434-5055 Fax: (705) 434-5051

Office of the Clerk

May 21, 2020

Dear Ms. Balkanci,

#### Re: Expression of Support for Natural Gas Expansion in Adjala-Tosorontio

On behalf of the Township of Adjala-Tosorontio, I would like to formally express our interest to have Enbridge Gas include projects that would bring natural Gas to Hockley Village as well as Tioga and Lisle on its list of projects being proposed to the Ontario Energy Board (OEB) for consideration for financial support through the Natural Gas Expansion Program.

The Council of the Township of Adjala-Tosorontio passed the following resolution at their Council meeting held on May 19, 2020.

Moved By: Councillor Hall-Chancey Seconded By: Councillor Bays

Resolved, That Council direct Staff to provide a letter to Enbridge Gas Inc. in support of a Natural Gas Expansion Program project in Hockley Village and a project in Tioga and Lisle.

Carried

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,

Robin Reid, Acting Clerk

cc: Mark Wilson, Sr. Advisor, Municipal & Stakeholder Relations

# Schedule 5B-6 Enbridge Gas Community Expansion Project Proposal

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

AND IN THE MATTER OF an Application by The Consumers' Gas Company Ltd. for a certificate of public convenience and necessity to construct works to supply gas and to supply gas to the inhabitants of the Corporation of the Township of Adjala-Tosorontio.

**BEFORE:** P.W. Hardie

Presiding Member

G.A. Dominy

Vice-Chair/Member

C. Elwell Member

# ORDER GRANTING A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

The Consumers' Gas Company Ltd. ("Consumers Gas") filed with the Ontario Energy Board ("the Board") an Application dated March 28, 1996 ("the Application") under section 8 of the Municipal Franchises Act, for a certificate of public convenience and necessity to construct works to supply gas and to supply gas in the Township of Adjala-Tosorontio.

The Notice of Application, dated April 12, 1996, was served in accordance with the Board's Letter of Direction. The Board issued Procedural Order No.1 on May 9, 1996 which established a schedule for interrogatories and notified parties of the date and time of the hearing.

The Application was heard in Toronto on June 5, 6 and 17, 1996 in the presence of counsel for Consumers Gas and counsel for Board Staff. The Board issued an oral decision on

July 4, 1996, finding the Application to be in the public interest. The Board directed that as a condition of granting the order Consumers Gas shall report in its rates cases, on an exception basis, deviations in the contracted volumes for the Honda plant in excess of 20 percent below the volumes forecast in the Company's feasibility analysis, which occur over the 20-year economic feasibility planning horizon.

### THE BOARD THEREFORE ORDERS THAT:

- 1. A Certificate of Public Convenience and Necessity ("the Certificate") is granted to Consumers Gas to construct works to supply gas and to supply gas in the Township of Adjala-Tosorontio.
- 2. If Consumers Gas should fail 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.
- 3. The Board's costs shall be paid by Consumers Gas forthwith upon the issuance of the Board's invoice.

ISSUED at Toronto, July 9, 1996.

ONTARIO ENERGY BOARD

Paul B. Pudge

**Board Secretary** 

### Schedule 5C Enbridge Gas Community Expansion Project Proposal

Meaford (	SB)
-----------	-----

### 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: Meaford	(SB) 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> <li>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.</li> </ul>

	I – Description of and Sup	<u>.                                      </u>							
3.1 Redacted	Provide a general overview of the project, which is to include the following: communities to be connected, including whether the project would serve any on-reserve Indigenous communities; existing population of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size.								
	Enbridge Gas is proposing to provide gas distribution service in the area of the Municipality of Meaford. The proposed facilities will provide access to natural gas to a forecasted 134 customers (129 residential and 5 commercial / institutional).								
	The proposed project will intersection of		polyethylene pipeline near the						
	1,800 m of 4" polyethylene p	pipe. The proposed distri	0 m of 2" polyethylene pipe and bution system will extend and						
	There will be no reinforcemen	nt required to accommodat	e additional loads for the system.						
	The approximate length and	•	·						
	Pipe Type	Diameter (NPS)	Length (m)						
	Polyethylene	2	9,570						
	The approximate length and Pipe Type	Diameter (NPS)	Length (m)						
	Polyethylene	4	1,800						
3.2	Please refer to Schedule 5  Provide the annual and cattachments over the ten commercial/institutional Indicate for each custom would be firm or interrup	umulative forecast of -year rate stability per and industrial sectors er type whether the se	iod by residential, for each community.						
	Please refer to Schedule 5	C-2, Table 3.2.							

3.3	Provide the annual and cumulative forecast of volumes (in m³) over the ten- year rate stability period by residential, commercial/institutional and industrial sectors for each community.
	For the residential segment, the default value for the average consumption level is 2,200 m³ per year. A proponent that has more accurate information regarding the annual consumption for residential customers in a given community may use that value, in which case it must explain how it has determined that it is more accurate than the default.
	Please refer to Schedule 5C-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 5C-3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule 5C-4 for Proposed Construction Schedule.
3.6	Provide letter(s) from the Band Council(s) and/or local government, as applicable, stating support for the project, including details of any commitment to financial support.
	Please refer to Schedule 5C-5.

Provide a copy of the Certificate of Public Convenience and Necessity (Certificate) for the area to be served, if held by the project proponent. If not, indicate whether another entity holds the Certificate for the area to be served, if known, and if so, identify the Certificate holder.

Where the project proponent holds a Certificate for the areas to be served, specify the boundaries of the Certificate and indicate whether the boundaries encompass the entire area that would be supplied by the proposed project.

Please refer to Schedule 5C-6 for Enbridge's CPCN with the Municipality of Meaford (EB-2008-0092) which covers the entire area of the proposed project.

### Part IV – Cost of Project

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

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

4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten).

Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).

For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs.

Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences.

Please refer to Schedule 5C-2, Table 4.2.

4.3 Provide the total annual forecast revenue requirement of the project over the ten-year rate stability period (using fully allocated OM&A costs) and rate base amount at the end of year ten.

Complete the tables below:

### **Revenue Requirement**

Description	Year 1	Year 2	Year 10	Total
Revenue Requirement				

Description	Year 10
Closing Rate Base	

Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).

Please refer to Schedule 5C-2, Table 4.3.

Part \	V – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.  \$5,346,148  Please refer to Schedule 5C-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.  \$39,897  Please refer to Schedule 5C-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.  \$23.28  Please refer to Schedule 5C-2, Table 5.3.

### Part VI – Distribution Charge

Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.

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

Please refer to Schedule 5C-2, Table 6.1.

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

### Part VII - Profitability Index / Benefit to Cost Ratio

Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.

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

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

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

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

### 

### Schedule 5C-1 Enbridge Gas Community Expansion Project Proposal

Meaford (	SB)
-----------	-----

## Meaford





### Schedule 5C-2 Enbridge Gas Community Expansion Project Proposal

Meaford (	SB)
-----------	-----

Community Expansion Meaford - \_\_\_\_\_ (S InService Date: Nov-01-2023

Table 3.2 - Customer Attachments Over The Rate Stability Period

Customer TypeFirm / ITResidentialFirmCommercialFirmInstitutionalFirmAgriculturalFirmIndustrialFirmTotal CustomersFirm

**Cumulative Customers** 

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

**Customer Type** 

Residential
Commercial
Institutional
Agricultural
Industrial
Total Volumes

**Customer Type** 

Residential Commercial Institutional Agricultural Industrial Total Volumes

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

**Total Capital Costs** 

Table 4.3 - Revenue Requirement Over The Rate Stability Period

Revenue Requirement

Closing Rate Base (net of proposed Section 36.2 funding)

EB-2019-0255 Schedule 5C-2 Redacted

Project Year	<u>1</u>	<b>2</b> 32	<u>3</u> 12	4	<u>5</u> 6	<u>6</u> 8	<u>7</u> 6	<u>8</u> 8	9	<u>10</u>	Total
	37	32	12	8	6	8	6	8	6	6	129
	-	2	2	-	-	-	-	-	-	-	4
	-	-	-	-	-	-	-	-	-	-	-
	-	1	-	-	-	-	-	-	-	-	1
-	- 27	- 2F	- 11	- 0	-	- 0	-	- 0	-	-	124
	<u>37</u>	<u>35</u>	<u>14</u>	<u>8</u>	<u>6</u>	<u>8</u>	<u>6</u>	<u>8</u>	<u>6</u>	<u>6</u>	<u>134</u>
	37	72	86	94	100	108	114	122	128	134	
						olumes - m3					
Project Year	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Total</u>
	30,773	88,385	125,290	142,065	153,808	165,550	177,293	189,035	200,778	210,843	1,483,818
	-	2,200	6,600	8,800	8,800	8,800	8,800	8,800	8,800	8,800	70,400
	-	-	-	-	-	-	-	-	-	-	-
	-	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	85,000
-			-	-	-	-					
	<u>30,773</u>	<u>95,585</u>	<u>141,890</u>	<u>160,865</u>	<u>172,608</u>	<u>184,350</u>	<u>196,093</u>	<u>207,835</u>	<u>219,578</u>	<u>229,643</u>	<u>1,639,218</u>
					Cumulative	Volumes - m3	3				
<b>Project Year</b>	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>	
	30,773	119,158	244,448	386,513	540,320	705,870	883,163	1,072,198	1,272,975	1,483,818	
	-	2,200	8,800	17,600	26,400	35,200	44,000	52,800	61,600	70,400	
	-	-	-	-	-	-	-	-	-	-	
	-	5,000	15,000	25,000	35,000	45,000	55,000	65,000	75,000	85,000	
	-	-	-	-	-	-	-	-	-	-	
<del>-</del>	<u>30,773</u>	<u>126,358</u>	<u>268,248</u>	<u>429,113</u>	601,720	<u>786,070</u>	982,163	<u>1,189,998</u>	1,409,575	<u>1,639,218</u>	







Community Expansion	Meaford -				
, ,					

InService Date: Nov-01-2023

### Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

(SB)

### Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Year 10 Volume (m3)

### **Table 6.1 - Distribution Charge**

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

EB-2019-0255 Schedule 5C-2 Redacted

\$ 5,346,148

Year 10 \$ 39,897

Year 10 \$ 23.28

**Project Year** <u>Total</u> 5,746 17,066 28,270 30,447 32,624 34,801 39,156 41,022 \$ 290,943 24,833 36,979 7,078 21,985 32,635 36,999 39,700 42,401 45,101 47,802 50,503 52,818 377,020 12,824 39,051 57,467 65,269 70,147 75,025 79,903 84,781 89,659 93,840 \$ 667,963

Net Present Value







<u>1.00</u>

Community	Expansion
Community	

Meaford -

(SB) InService Date: Nov-01-2023

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

Cash Inflow Revenue:

Distribution Revenue System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow
Gross Capital
Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value

Page 3 of 3

EB-2019-0255 Schedule 5C-2 Redacted

### Schedule 5C-3 Enbridge Gas Community Expansion Project Proposal

Meaford (	SB)
-----------	-----

Section 3.4 Meaford - \_\_\_\_\_ (SB)

Total Forecasted Customers 134 Penetration Rate 56%

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)	Community - Existing Fuel (tCO2e)	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	3	2%	\$ 5,000	\$ 2,829	\$ 1,258	\$ 1,571	\$ 5,198	6.7	-2.5	22	(8)
Electricity F/A	10	7%					· ·				36
Electricity Baseboard	17	12%	\$ 12,000	\$ 1,626	\$ 1,258	\$ 368	\$ 6,087	0.5	3.6	9	59
Propane	91	68%	\$ 600	\$ 1,626	\$ 1,258	\$ 368	\$ 33,476	5.2	-1.1	472	(96)
Wood	7	5%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	NA	. NA	NA
Other	7	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	134	100%	\$ 31,100	\$ 8,109	\$ 5,031	\$ 3,077	\$ 52,407	12.9	3.6	508	(10)

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

<sup>2</sup> 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	e M1 (Community Expansior	n, 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.

### Schedule 5C-4 Enbridge Gas Community Expansion Project Proposal

Meaford (	SB)
-----------	-----

# Meaford - \_\_\_\_\_ (SB) Community Expansion Project Pipeline Construction Schedule

Tools Nome o		2022									2023									2024																	
Task Name	Jan	Feb	Ma	r Apı	r Ma	ay Jui	n Ju	ıl Au	ug Se	ер О	ct N	VoV	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 5C-5 Enbridge Gas Community Expansion Project Proposal

Meaford (	SB)
-----------	-----



### Municipality of Meaford 21 Trowbridge Street West Meaford ON, N4L 1A1 519-538-1060

EB-2019-0255 Schedule 5C-5(a) Redacted

May 26, 2020

Brian Lennie
Senior Advisor, Municipal Affairs & Stakeholder Relations
Ontario South/West
Enbridge Gas Inc.
Via email brian.lennie@enbridge.com

Dear Mr. Lennie,

Re: Municipality of Meaford Resolution regarding the Provincial Natural Gas Expansion Program for

At their meeting on May 25, 2020, the Council of the Municipality of Meaford passed the following resolution regarding the provincial natural gas expansion program for

Moved by: Deputy Mayor Keaveney Seconded by: Councillor Bartley

That Council of the Municipality of Meaford:

- 1. Supports the application by Enbridge Gas Inc. to the Province of Ontario's Natural Gas Expansion Program for , and
- 2. Declines to provide financial support to the project through the Incremental Tax Equivalent program.

Carried Resolution #2020-10-03



### Municipality of Meaford

21 Trowbridge Street West Meaford ON, N4L 1A1 519-538-1060

Sincerely,

**Barb Clumpus** 

Mayor

Municipality of Meaford

Bubldungers

21 Trowbridge Street West, Meaford

bclumpus@meaford.ca



Date Monday, May 25, 2020

From Rob Armstrong, CAO / Director of

**Development Services** 

Subject Enbridge Gas Line Request for Support –

Report No. CAO2020-07 Roll No. N/a

### Recommendation

That Council of the Municipality of Meaford:

- 1. Supports the application by Enbridge Gas Inc. to the Province of Ontario's Natural Gas Expansion Program for , and
- 2. Declines to provide financial support to the project through the Incremental Tax Equivalent program.

### Background

The Municipality of Meaford is in receipt of a request from Enbridge Gas Inc. to provide a letter of support for an application to the Province of Ontario's Natural Gas Expansion Program (Appendix 1). In addition to the letter of support they are seeking the Municipalities financial commitment to an Incremental Tax Equivalent (ITE) grant. This program is similar to the Municipal Incremental Tax Equivalent grant under the Community Improvement Program wherein an increase in property taxes that would be a direct result from an improvement to property is waived for the property owner for a period of time. In this case, the improvement is provision of natural gas and Enbridge is suggesting 10 years. The following is the summary provided by Enbridge on the program:

In general, the incremental tax equivalent (ITE) is revenue neutral for Municipality for the first 10 years, and is cash flow positive for years 11 – 40 as the Municipality will get the incremental property tax for the last 30 years of forecasted asset life (and beyond).

Report CAO2020-07 Page 1 of 3

This amount for the first 10 years will be calculated to match the money Enbridge will pay you, less the federal, provincial payments required.

It will equal the amount that would go directly to the Municipality, so no money out of the Municipal budget is required.

It is staff's understanding that a similar proposal came before the Municipality in 2017 through Union Gas, but this project did not receive the necessary Provincial Approval to proceed. Staff are unaware of any financial commitment being made at that time under that program.

### Analysis

Municipal staff support any program that introduces additional services to our residents that would assist them in reducing heating costs. If approved, the installation of services would occur on both public and private roads. Any services on public roads would need to be installed in accordance with the municipal Engineering Standards.

Staff are however concerned with the cost to administer the ITE for those properties that would see an increase in assessment. It is acknowledged that an increase in taxes resulting from increased assessment does not result in an impact on the current budget.

The representative from Enbridge has also confirmed that municipal support does not have to include financial commitment.

This report is required to go directly to Council in that the deadline for applications is June 3, 2020.

### Financial Impact

Although Enbridge is suggesting that there would be no negative impact on the budget in that this would be an in-and-out process there would be staff costs associated with administering the ITE. Moreover current staffing levels would struggle to take on more tax analysis at this time. Should the ITE be granted, Financial Services would either require more staff or would need to reduce existing service levels to accommodate the analysis required to administer the program.

Report CAO2020-07 Page 2 of 3

### **Implications**

Other than staff costs to administer the ITE and the loss of revenue from waiving increased taxes, no adverse implications are anticipated with this support.

### Strategic Priorities

This report supports the mission, vision and values of the Municipality of Meaford, as well as the goals and objectives set out in Council's Strategic Priorities, particularly with respect to:

- Leading Municipal Government
- Strengthening our Community

### Consultation and Communications

Senior Management

Enbridge Gas Inc.

### Conclusion

Based on the foregoing, staff recommend that Council support the Enbridge application to the Ontario Natural Gas Expansion Program but not to provide any commitment of financial support.

### Supporting Documentation

Appendix 1 – Enbridge Ga	s Inc.	Request
Respectfully Submitted:		

Rob Armstrong, CAO / Director of Development Services

Report CAO2020-07 Page 3 of 3





February 20, 2020

Mayor Barb Clumpus Municipality of Meaford 21 Trowbridge Street West Meaford, ON N4L 1A1

Dear Mayor Clumpus and Members of Council,

#### Re: Natural Gas Expansion Program Update

In December 2019, the Government of Ontario announced its plans to further increase access to natural gas by making financial support available for new expansion projects. The Government's Natural Gas Expansion Program offers an opportunity to drive economic development and enhance the quality of life and prosperity of families and businesses across Ontario. As your Regional Director for Enbridge Gas Inc., I'm writing to provide an update on next steps, and how we can work together to bring natural gas to unserved communities in Ontario.

Enbridge Gas will submit project proposals to the Ontario Energy Board (OEB) based on Guidelines that are currently under development. The OEB will review project submissions and provide a report to the Ministry of Energy, Northern Development and Mines later this year recommending potential natural gas expansion projects that the Ontario government could consider as candidates for financial support. The Ministry of Energy, Northern Development and Mines will review the recommendations of the OEB along with other considerations and issue a decision on future natural gas expansion projects eligible to receive financial support.

Based on your interest in the 2017 Natural Gas Grant Program, we know how important access to natural gas is to your municipality. We ask that you confirm your interest to bring natural gas to your municipality by responding to us with your support within 10-15 business days of receiving this letter. The Guidelines to be issued by the OEB are expected to indicate that project submissions will require certain information to be provided to be considered complete – a summary of the expected submission requirements is included with this letter.

For more than 170 years, Enbridge Gas has been delivering the energy that Ontarians need and want. With our long history, anchored in our commitment to operational excellence and strong safety performance, Enbridge Gas is in the best position to bring natural gas to currently unserved areas. We have a number of expansion projects underway, and we are committed to building on this success. If you have any questions, please do not hesitate to contact me or your Municipal Advisor, Brian Lennie at brian.lennie@enbridge.com

Sincerely,

Murray Costello, P.Eng.

Director, Southeast Region Operations

Enbridge Gas Inc.

519-885-7425

murray.costello@enbridge.com

Nicole Fernandes, P.Eng. Operations Managers Enbridge Gas Inc.

### Schedule 5C-6 Enbridge Gas Community Expansion Project Proposal

Meaford (	SB)
-----------	-----

EB-2008-0092

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

The Ontario Energy Board hereby grants

#### **Union Gas Limited**

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

### **Municipality of Meaford**

This Certificate of Public Convenience and Necessity replaces those parts of the Certificate of Public Convenience and Necessity F.B.C. 301 relating to the former Town of Meaford, the former Township of St. Vincent and the former Township of Sydenham.

DATED at Toronto, May 26, 2008

ONTARIO ENERGY BOARD

Original Signed By

Neil McKay Manager - Facilities

### Schedule 5D Enbridge Gas Community Expansion Project Proposal

Mississippi Mills

### 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
Delica None Marchael Mills Occurred to English	During
Project Name: Mississippi Mills Community Expansion	Project
Address of Head Office:	Telephone Number:
50 Keil Drive North	519-436-4600
Chatham, ON N7M 5M1	
Name of Individual to Contact:	Office Telephone Number:
	519-436-5325
Patrick McMahon	Cell Phone Number:
	519-437-0759
	Email Address:
	patrick.mcmahon@enbridge.com

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

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

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

Part	II - Description of Proponent's Technical Expertise and Financial Capability
2.1	Describe the proponent's technical expertise to develop, construct, operate and maintain a natural gas distribution system.  N/A
2.2	Describe the proponent's financial capability to develop, construct, operate and maintain a natural gas distribution system, and provide the following:  • Current credit rating of the proponent, its parent or associated companies.  • Financial statements for each of the past two fiscal years. This may include audited financial statements, annual reports, prospectuses or other such information. If the proponent does not have financial statements (because it is a new entrant), the proponent is instead to provide pro forma financial statements for two years along with notes or business plans explaining the assumptions used in preparing the pro forma statements, where the documents must be signed by at least one key individual.  • If the proponent needs to raise additional debt or equity to finance the proposed project, evidence of the proponent's ability to access the debt and equity markets.  New entrants that cannot provide the information identified in this section should explain why that is the case and provide the best information that they have available.

rt II	I – Des	scription of and Support for Project					
cted	Provide a general overview of the project, which is to include the following: communities to be connected, including whether the project would serve any on-reserve Indigenous communities; existing population						
	of each community by residential, commercial/institutional and industrial sectors; routing; length of pipeline; and nominal pipe size.						
	of Miss	dge Gas is proposing to expand existing gas distribution service wit sissippi Mills. The proposed facilities will provide access to natural sted 486 customers (456 residential, 28 commercial / institutional a	gas to a				
	The pr	roposed project includes several components:					
	•	Rebuild existing station in the community of Packenham at the int and The proposed supply lateral to on to	runs on				
		on and provide gas service of the					
	•	Tie-in to an existing system at the intersection of and	and				
	•	Proposed station at the intersection of and proposed supply lateral to run along					
		and serve the community of Blakeney.					
	•	Proposed station at intersection of and provide gas along					
	•	Tie-in to existing system at intersection of and _ run to and from	to				
		to proposed station located near the on					
	•	Proposed station at intersection of and	with				
		supply pipeline to run along u	ip to				
		, along, along	l				
		, and along					
	•	Tie-in to existing system on and	, supply				
		to run along and, along	up to				
		at					
		,, on, and,	10				
	The reinforcement work required includes upsizing the outlet of						
		on and and rebuilding the station					
	Reinforcement of inlet piping to and Reinforcement of inlet piping to						
		_ and and and on and The					
	require	es a full rebuild of the station. Additionally, the					
		es a full rebuild (large station) located on near					
		_•					

The approximate length and size of the distribution piping required:

Pipe Type	Diameter (NPS)	Length (m)
Steel	4	217
Steel	2	48
Polyehtylene	4	38,915
Polyehtylene	2	26,790

The approximate length and size of the reinforcement required:

Pipe Type	Diameter (NPS)	Length (m)
Steel	12	5,664
Steel	4	19
Steel	2	91
Polyehtylene	4	229

Please refer to Schedule 5D-1 for Project Map.

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

Please refer to Schedule 5D-2, Table 3.2.

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

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

Please refer to Schedule 5D-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 5D-3, Table 3.4.
3.5	Provide the proposed schedule for construction including the start date, all major milestones (with any phases) and the projected in-service date.
	Please refer to Schedule 5D-4 for Proposed Construction Schedule.
3.6	Provide letter(s) from the Band Council(s) and/or local government, as applicable, stating support for the project, including details of any commitment to financial support.
	Please refer to Schedule 5D-5.
3.7	Provide a copy of the Certificate of Public Convenience and Necessity (Certificate) for the area to be served, if held by the project proponent. If not, indicate whether another entity holds the Certificate for the area to be served, if known, and if so, identify the Certificate holder.
	Where the project proponent holds a Certificate for the areas to be served, specify the boundaries of the Certificate and indicate whether the boundaries encompass the entire area that would be supplied by the proposed project.
	Please refer to Schedule 5D-6 for Enbridge's CPCNs for Town of Mississippi Mills (EB-2012-0408) and the Town of Carleton Place (FBC 132) which cover the entire area of the proposed project.

## Part IV – Cost of Project Confirm that the proposed project includes a ten-year rate stability period. The proposed project does include a ten-year rate stability period. 4.2 Provide the total forecast of capital costs (including any forecast of upstream reinforcement costs) of the project at the end of the rate stability period (i.e., year ten). Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP). For projects proposing to use CNG and/or LNG, the costs of required infrastructure and other associated costs must be included as part of the total project capital costs. Include any upstream reinforcement costs in the total cost of the project. To the extent that the reinforcement costs for an incumbent utility's proposed project are materially different from the reinforcement costs that the utility has estimated for another proponent's project in the same area, the incumbent utility must identify in its filing that two separate estimates exist and explain the reasons for the differences. Please refer to Schedule 5D-2, Table 4.2. 4.3 Provide the total annual forecast revenue requirement of the project over the ten-year rate stability period (using fully allocated OM&A costs) and rate base amount at the end of year ten. Complete the tables below: Revenue Requirement Description Year 1 Year 2... Year 10 Total **Revenue Requirement** Description Year 10 **Closing Rate Base**

Where applicable, the inflation rate to be used is the most recent quarter average GDP IPI FDD. For interest during construction, the proponent is to use the OEB-prescribed interest rate for construction work in progress (CWIP).

Please refer to Schedule 5D-2, Table 4.3.

Part \	/ – Section 36.2 Funding
5.1	Provide the total amount of section 36.2 funding needed to support the project.
	\$56,026,869
	Please refer to Schedule 5D-2, Table 5.1.
5.2	Provide the section 36.2 funding amount per customer number served in year ten of the project.
	\$115,282
	Please refer to Schedule 5D-2, Table 5.2.
5.3	Provide the section 36.2 funding amount per volume (m³) in year ten of the project.
	\$39.23
	Please refer to Schedule 5D-2, Table 5.3.

## Part VI – Distribution Charge

Provide the estimated amount that the proponent proposes to recover from residential customers on an annual basis (inclusive of any system expansion surcharge) in the form of an estimated annual distribution charge inclusive of fixed and variable charges over the rate stability period.

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

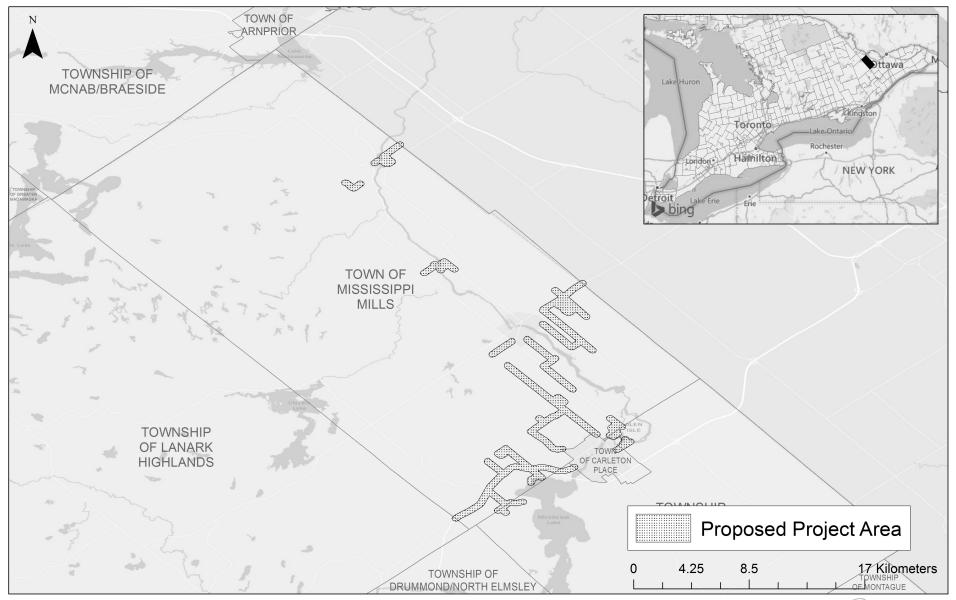
Please refer to Schedule 5D-2, Table 6.1.

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

Part \	VII – Profitability Index / Benefit to Cost Ratio
7.1	Provide, in a summary table, the expected Profitability Index (PI) of the project, inclusive of the proposed section 36.2 funding. Provide any major assumptions used in the calculation, and specify all proposed section 36.2 funding, revenue from rates (including any proposed system expansion surcharges), capital contributions and municipal tax holidays or other municipal financial support.  The project must have a PI of 1.0. The PI is to be calculated based on an individual project (i.e., not a "portfolio" of projects).
	Please refer to Schedule 5D-2, Table 7.1.
7.2	Provide, in a summary table that otherwise meets the requirements of section 7.1, the expected PI of the project without the proposed section 36.2 funding.
	Please refer to Schedule 5D-2, Table 7.2.

Part	VIII – OEB Approvals
8.1	Identify any OEB approvals that will be required for the project (Leave to Construct, Certificate of Public Convenience and Necessity, Municipal Franchise Agreement, Rate Order).  • Leave to Construct
8.2	For OEB approvals identified in section 8.1, provide a schedule for applying for them and the date by which each of these approvals is required to meet the proposed in-service date. For this purpose, proponents should reference the performance standards posted on the OEB's website and where applicable assume a written hearing process.  Please refer to Schedule 5D-4.

## Schedule 5D-1 Enbridge Gas Community Expansion Project Proposal





## Schedule 5D-2 Enbridge Gas Community Expansion Project Proposal

InService Date: Nov-01-2023											Schedule 5 Redacted	D-2
Table 3.2 - Customer Attachments Over The Rate Stability Period												
Customer Type Firm / IT	<b>Project Year</b>	<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		123	110	41	30	23	<u>6</u> 28	25	28	25	<u>10</u> 23	456
Commercial Firm		-	12	4	3	3	1	-	-	-	-	23
Institutional Firm		-	-	-	-	-	-	-	-	-	-	-
Agricultural Firm		-	2	1	1	1	-	-	-	-	-	5
Industrial Firm	_	-	1	1	-	-	-	-	-	-	-	2
Total Customers		<u>123</u>	<u>125</u>	<u>47</u>	<u>34</u>	<u>27</u>	<u>29</u>	<u>25</u>	<u>28</u>	<u>25</u>	<u>23</u>	<u>486</u>
Cumulative Customers		123	248	295	329	356	385	410	438	463	486	
Table 3.3 - Annual and Cumulative Volumes Over The Rate Stability Period (m3)						Ann	ual Volumes	- m2				
Customer Type	Project Year	4	2	•	4	_		- 1113	•	0	10	Total
Residential	Project real	147,600	<b>2</b> 427,200	<u>3</u> 608,400	693,600	5757,200	818,400	882,000	<u>8</u> 945,600	1,009,200	1,066,800	<u>Total</u> 7,356,000
Commercial		147,000	27,200	64,300	82,900	100,300	110,200	111,400	111,400	111,400	111,400	830,500
Institutional		_	-	-	-	-	-	-	-	-	-	-
Agricultural		_	10,000	25,000	35,000	45,000	50,000	50,000	50,000	50,000	50,000	365,000
Industrial		-	50,000	150,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,600,000
Total Volumes	_	<u>147,600</u>	514,400	847,700	1,011,500	1,102,500	1,178,600	1,243,400	1,307,000	1,370,600	1,428,200	10,151,500
						Cumu	lative Volume	es - m3				
Customer Type	<b>Project Year</b>	<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		147,600	574,800	1,183,200	1,876,800	2,634,000	3,452,400	4,334,400	5,280,000	6,289,200	7,356,000	
Commercial		-	27,200	91,500	174,400	274,700	384,900	496,300	607,700	719,100	830,500	
Institutional		-	-	-	-	-	-	-	-	-	-	
Agricultural		-	10,000	35,000	70,000	115,000	165,000	215,000	265,000	315,000	365,000	
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>147,600</u>	<u>662,000</u>	<u>1,509,700</u>	<u>2,521,200</u>	<u>3,623,700</u>	<u>4,802,300</u>	<u>6,045,700</u>	<u>7,352,700</u>	<u>8,723,300</u>	<u>10,151,500</u>	
Table 4.2 - Total Capital Costs At End Of The Rate Stability Period												
	_	<u>Year 10</u>										
Total Capital Costs												
Table 4.3 - Revenue Requirement Over The Rate Stability Period												
	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>
Revenue Requirement												
		<u>Year 10</u>										

EB-2019-0255

Community Expansion Mississippi Mills

Mississippi Mills

InService Date: Nov-01-2023

EB-2019-0255 Schedule 5D-2 Redacted

## Table 5.1 - Total Amount of Section 36.2 Funding

Section 36.2 Funding Needed to Support the Project

Table 5.2 - Section 36.2 Funding Amount Per Customer Served

Section 36.2 Funding Amount Per Customer Served

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

Section 36.2 Funding Amount Per Volume (m3)

Table 6.1 - Distribution Charge

Distribution Revenue SES Revenue Total Distribution Charge

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax
Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow

Gross Capital

Proposed Section 36.2 Funding

Change in Working Capital

Total Cash Outflow (D)

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

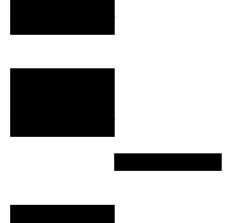
\$ 56,026,869

<u>Year 10</u> 115,282

<u>Year 10</u> 39.23

<b>Project Year</b>	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>
	\$ 25,864	86,074	134,772	158,109	174,604	188,529	200,199	211,344	222,488	232,581	1,634,563
	33,948	118,312	194,971	232,645	253,575	271,078	285,982	300,610	315,238	328,486	2,334,845
	\$ 59,812	204,386	329,743	390,754	428,179	459,607	486,181	511.954	537,726	561.067	3,969,408

Net Present Value



<u>1.00</u>

InService Date: Nov-01-2023

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

Cash Inflow

Revenue:

Distribution Revenue

System Expansion Surcharge (SES) Revenue

Total Revenue (A)

Expenses:

O&M Expense

Municipal Tax

Income Tax

Total Expenses (B)

Total Cash Inflow (C = A + B)

Cash Outflow Gross Capital

Change in Working Capital

Total Cash Outflow (D)

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

Net Present Value

Schedule 5D-2 Redacted

EB-2019-0255

## Schedule 5D-3 Enbridge Gas Community Expansion Project Proposal

Section 3.4 Mississipi Mills

Total Forecasted Customers 486 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 Change (increased GHG is +ve/decreased GHG is -ve) per customer switching to natural gas (tCO2e)	Estimated Annual GHG - Total Community -	Estimated Annual GHG Change (increased GHG is +ve/decreased GHG is -ve) total community switching to natural gas (tCO2e)
Oil	102	21%	\$ 5,000	\$ 3,050	\$ 1,481	\$ 1,570	\$ 160,208	7.2	-2.7	732	(273)
Electricity F/A	44	9%			\$ 1,481			0.6	3.9	26	
Electricity Baseboard	58	12%	\$ 12,000	\$ 2,187	\$ 1,481	\$ 706	\$ 41,200	0.6	3.9	34	228
Propane	214	44%	\$ 600	\$ 1,764	\$ 1,481	\$ 283	\$ 60,587	5.6	-1.1	1,195	(233)
Wood	44	9%	\$ 3,500	N/A	N/A	\$ -	N/A	NA	NA	NA	NA
Other	24	5%	\$ 5,000	N/A	N/A	\$ -	N/A				
Total	486	100%	\$ 31,100	\$ 9,188	\$ 5,923	\$ 3,266	\$ 292,895	13.9	4.1	1,987	(106)

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

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

		Е	mission Factors		
	CO2	CH4	N2O	CO2e U	nits
Natural Gas	1863 g/m3	0.037 g/m3	0.035 g/m3	0.001874355 to	onnes/m3
Heating Oil	2725 g/L	0.006 g/L	0.031 g/L	0.002734388 to	onnes/L
Propane	1510 g/L	0.024 g/L	0.108 g/L	0.001542784 to	onnes/L
Electricity	30 g/kWh	-	-	0.00003 to	onnes/kWh
Wood	-	-	-	-	-

#### **Emission Factor Sources:**

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

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

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

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

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

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

## Notes:

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

## Schedule 5D-4 Enbridge Gas Community Expansion Project Proposal

# Mississipi Mills Community Expansion Project Pipeline Construction Schedule

Task Name		2022											2023											2024													
		Feb	Ma	ır Ap	or Ma	ay Ju	n Jı	ul A	Aug S	бер (	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											T																										
In Service																																					

## Schedule 5D-5 Enbridge Gas Community Expansion Project Proposal



#### CORPORATION OF THE MUNICIPALITY OF MISSISSIPPI MILLS

3131 OLD PERTH ROAD · PO BOX 400 · RR 2 · ALMONTE ON · K0A 1A0

PHONE: 613-256-2064 FAX: 613-256-4887

WEBSITE: www.mississippimills.ca

May 11, 2020

Via E-mail

Dear Ian Ross, Director of Eastern Region Operations for Enbridge Gas

#### Re: Expression of Support for Natural Gas Expansion to Municipality of Mississippi Mills

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 Mississippi Mills, I would like to formally express our interest to have Mississippi Mills Gas Extension 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,

Mayor of Mississippi Mills

## Schedule 5D-6 Enbridge Gas Community Expansion Project Proposal

#### EB-2012-0408

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

The Ontario Energy Board hereby grants

### **Enbridge Gas Distribution Inc.**

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

#### **Town of Mississippi Mills**

This certificate replaces certificates associated with the Town of Almonte (F.B.C. 148), the Township of Pakenham (F.B.C. 177) and the Township of Ramsay (F.B.C. 176).

**DATED** at Toronto, December 13, 2012

#### ONTARIO ENERGY BOARD

Original Signed By

Kirsten Walli Board Secretary

FBC 132

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

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

AND IN THE MATTER OF an application by The Consumers' Gas Company of Toronto for a Certificate of Public Convenience and Necessity to construct works and to supply natural gas to the Town of Carleton Place in the County of Lanark

BEFORE:

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

### CERTIFICATE OF PUBLIC CONVENIENCE Not the state

UPON THE APPLICATION of The Consumers' Gas Company of foronto (hereinafter called the Applicant) for a certificate pursuant to the provisions of The Municipal Franchises Act, R. S. G. 1950 Chapter 249 and amendments thereto and upon the hearing of such application by the Board at the City of Toronto on the 12th day of Movember, 1957 after due notice had been given as directed by the Board in the presence of Counsel for the Applicant no one else appearing the Board being pleased to adjourn the said application until Movember 22nd, 1957 and the same coming on that day in the presence of Counsel for the applicant no one else appearing, upon consideration of the evidence and exhibits produced at the hearing and upon hearing what was alleged by Counsel for the Applicant.

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

DATED at Toronto this

9to a Recember 35.

ONTARIDO FURT. EGARD

Maren:

MARINA Commissioner