Casselman Pipeline Project Second Virtual Public Information Session

Available May 19 to June 6, 2025









Welcome



- computer or tablet using a Google Chrome browser.
- The full set of presentation slides, as well as the audio transcript, roll plan map and Notice of Commencement and Public Information Sessions are available to view or download via the links below.
- Questions and comments can be submitted using the questionnaire button at the bottom right corner of the page, and an Enbridge Gas or AECOM representative will respond.
- Please note, that the Second Virtual Public Information Session will be available from May 19 to June 6, 2025.
- If you would like to receive future project updates, please complete a questionnaire or email the project team at CasselmanPipelineProjectEA@aecom.com.
- You can access more project information and presentation materials from the First Virtual Public Information **Session** here: https://www.enbridgegas.com/casselmanpipeline











Purpose of the 2nd Public Information Session



- Provide an update on the project, present the Preferred Routes, discuss the evaluation of the Alternative Routes, and discuss how stakeholder input was integrated into the route selection process.
- Consult with Indigenous communities and engage with members of the public and regulatory authorities regarding the project and Preferred Routes, potential impacts and proposed mitigations.
- Provide an opportunity for these individuals, any affected landowners and the public to review the proposed project and ask any questions or provide comments to representatives from Enbridge Gas and AECOM.
- Provide an opportunity to identify unknown project constraints and review draft plans to mitigate potential socio-economic and environmental impacts.









Enbridge Gas' Commitment

Enbridge Gas is dedicated to engaging with Indigenous communities, agencies, interest groups, and community members. They commit to providing up-to-date information in an open, honest, and respectful manner while carefully considering your input. With over 3.9 million residential, commercial, and industrial customers in Ontario, Enbridge Gas is committed to delivering natural gas safely and reliably. Environmental stewardship is also a top priority for Enbridge Gas, and they conduct their operations in an environmentally responsible manner.







Project Overview

To support the development of lower-carbon renewable energy in Ontario and to meet the requirements of a customer, Enbridge Gas is proposing to connect a producer of renewable natural gas to Enbridge Gas' distribution network in the municipalities of United Counties of Prescott and Russell, the United Counties of Stormont, Dundas and Glengarry, and the City of Ottawa. The project involves the construction of approximately 13.2 kilometres of 6-inch and 8-inch steel pipelines and are tentatively planned to occur within the existing municipal Right-of-Way and/or on privately controlled lands.

The project area will require two separate geographic locations, or segments, to accommodate the volume of renewable natural gas that will be injected into the distribution network – the Casselman Segment and the Ottawa Segment.









Environmental Assessment Process

As part of the planning process, Enbridge Gas has retained AECOM to undertake an Environmental Assessment for the project. The Environmental Assessment will fulfill the requirements of the Ontario Energy Board's "Environmental Guidelines for the Location, Construction, and Operation of Hydrocarbon Projects and Facilities in Ontario, 8th Edition (2023)".

The assessment will:

- Undertake engagement to understand the views of interested and potentially affected parties;
- Consult with Indigenous communities to understand interests and potential impacts;
- Be conducted during the earliest phase of the project;





- impacts; and
- monitoring, and follow-up program.

 Identify potential impacts of the project; Develop environmental mitigation objectives and protective measures to avoid or reduce potential

Develop an appropriate environmental inspection,



Preferred Route Selection Process





Develop Routing Parameters

- Establish a study area.
- Establish routing objectives. For example:
 - Follow a reasonably direct path between start and end points.
 - Avoid sensitive environmental and socioeconomic features, where possible.
 - Parallel (loop) existing linear infrastructure.
 - Follow existing lot and property lines.
- Create an inventory of environmental and socio-economic features.











Identify Route Alternatives in the Study Area

Identify reasonable and feasible routes within the study area in consideration of the routing objectives and environmental and socio-economic opportunities and constraints.



Preferred Route Selection Process (continued)



Presentation of Alternative Routes



- Presentation of the Preliminary Preferred Route and Alternative Routes at the first virtual public information session and at an inperson public information session; and
- Gather input from Indigenous communities, landowners and other stakeholders, as received.





Route Evaluation and Presentation of the Preferred Route



- A review of publicly available information about natural heritage features, slope, topography, and socio-economic features and landscapes;
- A Geographic Information System based quantitative evaluation of potential impacts to environmental and socioeconomic features; and
- Input gathered during the first public information sessions.
- The Preferred Route will be presented at a second virtual public information session.

We are here



Step 5:

Confirm Route and Complete Environmental Report

 The pipeline route will be confirmed and analyzed in the Environmental Report. The location of the Preferred Route may be refined as the project moves forward based on preconstruction field investigations, landowner requests, and / or engineering and construction considerations.



Consultation and Engagement – Input Received



Casselman Segment:

- on/off ramps) and that utilities cannot run parallel within the freeway corridor.
- road closures, damage to properties and damage to existing utilities.

Ottawa Segment:

- Concerns regarding wetlands adjacent to Alternative Route 1.





• The United Counties of Prescott and Russell requested that pipeline routing minimize impacts to newly paved roads, particularly at County Road 3 (Route 600 E) and Principale Street intersection. They also noted existing drainage issues and deep utility crossings along County Road 3 and asked that the number of impacted County Roads be minimized.

Concerns were raised about potential residential/farm property disruptions during construction in addition to air pollution, noise,

Additional concerns included traffic and potential conflicts with existing Enbridge Gas infrastructure.

It was noted that lands adjacent to Alternative Route 1 are regulated by South Nation Conservation Authority. Hydro transmission and distribution infrastructure transects and/or is adjacent to proposed routes.



Preferred Route – Casselman Segment

Commencing at a renewable natural gas injection station at the producer facility, the pipeline travels west on Lafleche Road, then north on private lands. The pipeline then turns west on Route 700, then turns north and crosses Highway 417 and continues north along Gagne Sideroad before turning west on Route 600 East, then north on Brebeuf Street, then west on Montcalm Street, then north on Principale Street to its termination point just east of the South Nation River.





- Start Point
- Preferred Route
- Project Study Area

- Freeway
- Expressway / Highway
- Major Road
- Local Road
- Freeway
- Expressway / Highway
- Major Road
- Local Road

- Intermittent Stream 🔿 Lake River
- Wooded Area
- Municipality Boundary





Preferred Route – Ottawa Segment

Commencing at the intersection of Stone School Road and Bank Street, the pipeline proceeds north to its termination point at the intersection of Greys Creek Road and Bank Street.









Confirmation of Preferred Route



- Prioritization of route features where impacts can be minimized or eliminated through mitigation;
- Stakeholder input, feasibility and property constraints;
- Avoiding the need for private easements;
- Avoidance of sensitive environmental features, such as wetlands near Greys Creek Road (Ottawa); and
- Minimizing future logistical and engineering challenges. Enbridge Gas remains committed to ongoing engagement with affected and interested parties throughout detailed design and construction and will continue responding to concerns throughout the project lifecycle.







Following the route evaluation, the engagement and consultation program, and based on input received to date, the Preferred Route for both the Casselman and Ottawa Segments were selected due to the following reasons:



Socio-economic Features

residential.

Potential Effects

- Temporary increases in noise, dust and air emissions.
- Increased construction traffic volumes.
- Temporary impairment of the use of residential and/or commercial property.
- Ornamental vegetation clearing along the pipeline route.







The project will mainly be constructed on the existing municipal road right-of-way adjacent lands. In addition, the Preferred Routes transect many land uses, ranging from rural and agricultural to commercial, industrial and

Example Mitigation Measures

- Traffic access will be maintained, where possible, during construction.
- Restricting construction to daylight hours and adherence to applicable noise by-laws.
- Developing and implementing a Traffic Control Plan.
- Place fencing at appropriate locations for safety.
- Making contact information for a designated Enbridge Gas representative available prior to and throughout construction.
- Completing re-vegetation of cleared ornamental vegetation areas as needed (including seeding/planting).





Cultural Heritage Resources



A Stage 1 Archaeological Assessment will be conducted to determine if the study area contains any archaeological potential. In addition, a Cultural Heritage Screening will be completed for the project prior to construction.

During construction, cultural heritage features such as archaeological finds, heritage buildings, fences, and landscapes may be encountered.

Potential Effects

 Damage or destruction of archaeological or historical resources.





Example Mitigation Measures

- with review from the Ministry of Citizenship and Multiculturalism.
- of-way.
- Provisions for work stoppages and reporting of any uncovered or suspected of being uncovered during excavation.



Archaeological assessment of the construction footprint,

 Cultural heritage assessment (for built heritage features) and cultural heritage landscapes) of the construction right-

previously unknown archaeological or historical resources



Aquatic Resources



- The Preferred Routes include water / drain crossings (Casselman only) and wetlands (both evaluated and unevaluated).
- Enbridge Gas understands the importance of protecting watercourses, wetlands, and associated wildlife during construction and will implement recognized mitigation measures to reduce potential environmental effects.

Potential Effects

- Disruption and alteration to aquatic species and habitat and/or nuisance effects.
- Increased soil erosion, sedimentation and subsequent watercourse turbidity resulting from removal of vegetation.





Example Mitigation Measures

- Installation of erosion and sediment control measures.
- Obtain all agency permits and approvals.
- Conform to fish timing window guidelines.
- Use Horizontal Directional Drill and/or trenchless drill within or near environmentally sensitive features (for example watercourses, wetlands, etc.)
- For in-channel construction works, protect aquatic species through methods such as flow diversion/dewatering, fish rescue planning and management of sedimentation and turbidity.
- Seeding disturbed areas to establish habitat and reduce erosion.



Replanting vegetation along waterways if disturbance occurs.



Terrestrial Resources

Natural environment features such as wooded areas, designated natural areas and wetlands occur adjacent to the Preferred Routes. There is also potential for Species at Risk to occur in the vicinity of the project.

Potential Effects

- Damage or removal of vegetation and wildlife habitat in the construction area, including Species at Risk habitat.
- Disturbance and/or mortality to local wildlife.





Example Mitigation Measures

- The conduct of surveys (including Species at Risk surveys) in advance of construction to determine opportunities for wildlife habitat to exist.
- Completing tree removal outside of migratory bird windows (typically from April 1 – August 31), to the extent possible.
- Clearly marking the construction area to avoid accidental damage.
- Distribute Species at Risk identification sheets and conduct environmental training sessions for workers to raise awareness about sensitive species, habitats, and necessary mitigation measures during construction activities.
- Seeding disturbed areas to establish habitat and reduce erosion, if required.
- Obtain all necessary permits and follow any conditions of approval.





Access and Land Requirements



whose role is to:

- permanent easements and impacts or remedies to property.
- Provide a direct contact and liaison between area landowners and Enbridge Gas; • Be available to landowners during the project and throughout construction activities; • Act as a singular point of contact for all landowners and address concerns and questions; and • Address any land matters relating to the temporary use of property, access agreements,





- While most of the pipeline route will be constructed within the municipal road right-of-way, some circumstances requiring access agreements, permanent easement or temporary working space during construction could result in the need for access to additional land outside of the road right-of-way.
- Enbridge Gas has a comprehensive Landowner Relations Program that uses a dedicated Land Advisor





Constructing an Enbridge Gas Pipeline







- Pre-construction tiling Ъ.
- 2. Surveying and staking
- 3. Clearing

- 4. Right-of-way topsoil stripping
- 5. Front-end grading
- Stringing pipe 6.

Note: The construction infographic is specifically for open-cut steel pipe installation and serves for reference purposes only.



- Field bending pipe 7.
- Lining-up pipe 8.
- Welding process 9.
- **10.** X-ray or ultrasonic Padding trench bottom inspection, weld repair
- **11.** Field coating
- **12.** Digging the trench
- Final inspection and
 - coating repair
- Lowering pipe

- 16. Backfilling
- **17.** Hydrostatic testing
- Site restoration and post-construction tiling



Constructing an Enbridge Gas Pipeline (continued)



The pipeline construction process includes various procedures, as described in the previous slide.

- Photo 1: Shows a typical Enbridge Gas natural gas pipeline. The **Casselman Pipeline Project** will involve the installation of a steel pipeline ranging from 6 to 8 inches.
- Photo 2: Represents an example open-cut trench that is created during the installation process.
- **Photo 3:** Represents the process of backfilling a trench.
- Photo 4: Represents final clean-up and restoration. Once the pipeline has been installed, clean-up will involve the restoration of the right-ofway and other work areas.









Horizontal Directional Drilling Methodology

Protecting water, wildlife and the land

- Should the new natural gas pipeline cross watercourses and wetlands, trenchless technology, such as horizontal directional drilling (as shown in the accompanying figure), may be used to minimize environmental impacts.
- All crossings follow construction best practices, guidelines and permits from Fisheries and Oceans Canada, the Ministry of the Environment, Conservation and Parks, and local conservation authorities.







Typical Horizontal Directional Drilling Method

This is an example of one of a number of watercourse crossing methods.

River

Pre-assembled pipe section pulled through

Direction of pulling back



Pipeline Design

The steel pipeline is designed to meet and/or exceed the regulations of the Canadian Standards Association (Z662 Oil and Gas Pipeline Systems) and the applicable regulations of the Technical Standards and Safety Association.

Pipeline Safety and Integrity

Enbridge Gas takes many steps to ensure the safe, reliable operation of our network of natural gas pipelines, including:

- standards and regulatory authorities;
- Continuous monitoring of the entire network; and
- working as intended.





• Designing, constructing and testing our pipelines to meet or exceed requirements set by industry

• Performing regular field surveys to detect leaks and confirm that corrosion prevention methods are





Environment, Health, and Safety Policy

Our Commitment

- Enbridge Gas is committed to protecting the health and safety of all individuals affected by our activities.
- Enbridge Gas will provide a safe and healthy working environment and will not compromise the health and safety of any individual.
- Our goal is to have no incidents and mitigate impacts on the environment by working with our stakeholders, peers, and others to promote responsible environmental practices and continuous improvement.





- environment.



• Enbridge Gas is committed to environmental protection and stewardship and recognizes that pollution prevention, biodiversity, and resource conservation are key to a sustainable

• All employees are responsible and accountable for contributing to a safe working environment, for fostering safe working attitudes, and for operating in an environmentally responsible manner.



Casselman Pipeline Project

Next Steps







After this Public Information Session, Enbridge Gas intends to pursue the following anticipated schedule of activities:







On behalf of the Project Team, thank you for attending this public information session. Please complete a Questionnaire by June 6, 2025, for your comments to be considered in the Environmental Report.

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For more information about the proposed project, please visit the Enbridge Gas project website at: enbridgegas.com/casselmanpipeline





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