Welcome to the Owen Sound Phase 4 Reinforcement Project Information Session A Union Gas Pipeline Project
Thank You For Joining Us

Tonight, we invite you to:

1. View the Project information on the display boards and meet the members of the Project Team
2. View updated Project details
3. See what we’ve heard from you and our plans to address concerns
4. Learn more about Union Gas, its construction methods and environmental mitigation

Please sign-in at the front desk to receive future updates.
Why Are We Here?

The purpose of this information session is to:

- Provide an update for the Owen Sound Phase 4 Reinforcement Project (the Project) scheduled for construction in 2019
- Obtain additional community feedback on the Preliminary Preferred Pipeline Route
- Discuss project details such as pipeline location, impacts to residents, environmental mitigation and construction techniques
- Share what we have heard and our plans to address concerns

How can you get involved?

- As you are reviewing the information, we encourage you to ask questions and provide us with your thoughts about the Project.
- We also encourage you to provide your input at any point during the study process by contacting us at: Christine.Cinnamon@aecom.com

We’re Interested In What You Have To Say!
To serve a growing demand for natural gas, Union Gas Limited (Union Gas) plans to construct up to 36 kilometres of 12-inch diameter natural gas pipeline to reinforce the existing Owen Sound Pipeline System within Grey County.

The Project proposes to construct a new pipeline within the municipal road right-of-way in the Municipality of West Grey and the Township of Chatsworth, in Grey County.

The proposed pipeline reinforcement will help meet the future natural gas demands for all customers serviced off the Owen Sound transmission system.

If approved by the Ontario Energy Board, construction is planned to begin in early spring 2019.
UNION GAS – WHO WE ARE & WHAT WE DO

What to look for when choosing a natural gas provider

- Proven safety record with over 100 years of experience
- Excellent customer service with Customer and Billing Centres in Ontario
- Ontario-based natural gas company providing service to over 400 communities across Ontario
- Highly trained, committed and knowledgeable experts
- Deliver affordable, safe and reliable natural gas to 1.4 million homes and businesses with approximately 20,000 new customers each year
- Delivers the lowest natural gas rates in Ontario
- One of Canada’s Top 100 Employers for 7 years in a row
- Understands rural and indigenous communities in Ontario

SAVEWITHGAS.CA
SAFETY IS OUR #1 PRIORITY

We are dedicated to the safe operation of our facilities and to the protection of our employees and the public.

- **Over 100 years** of proven safety experience
- Pipeline and facilities are:
  - Constructed using [well-established](#) best practices
  - Designed and maintained to [strict](#) safety standards
  - [Monitored 24/7](#) by 2 gas control centres
- Highly trained **industry experts**
- Ongoing public **safety awareness programs**
- Support for **community based safety programs** such as school programs and children’s safety villages

Past winner of the prestigious American Gas Association Safety Achievement Awards in fleet safety
BEING A GOOD NEIGHBOUR IS IMPORTANT TO US

We live and work in over 400 communities across Ontario and it’s our goal to be a good neighbour in each one.

- **Consult with landowners, stakeholders and First Nation and Métis communities** to learn what is important when determining new facilities locations
- **Conduct municipal meetings**, as well as public information sessions about our projects
- **Involve communities** in decision making to help address environmental or cultural sensitivities
- **Invest in relationships and training** with emergency first responders
- Develop community **safety and emergency preparedness programs**
- **Support community initiatives** through donations for charitable organizations, sponsorships, in-kind contributions and volunteerism
#### Construction within restricted areas to limit environmental disturbance

| Preparing the trench within a bed rock section – Blasting equipment working. | Restoration of trail surface – A sand and gravel mixture was used to resurface the road following construction. |
| Concrete coated pipe is strung and welded, and is ready for installation. | Approximately 1 year following construction. |
| The pipe was installed into the trench while maintaining disturbance to the traveled portion. | Approximately 1 year following construction. New barriers erected by Committee can be seen in the background. |
**CASE STUDY: SEGUIN TRAIL – PARRY SOUND**

Construction within restricted areas to limit environmental disturbance

- 6” pipeline constructed within the footprint of the Seguin Trail.
- Union Gas worked with the community which expressed concern with removing trees from along the trail.
- Union Gas developed and delivered a construction plan to construct within the constraints of the Seguin Trail without tree removal.
- Union Gas is developing similar construction methods for this project to avoid tree clearing at select locations.
- Union Gas is seeking a balance between tree removal and road closures/restrictions.
- With the considerations above, restricted tree and brush removal will still be required at select locations, which will be completed with the approval of the municipalities or any impacted landowners.
Environmental Study Process

Study Development
- Delineation of the Project Study Area
- Identification of Alternative Pipeline Routes
- Evaluation of Alternative Pipeline Routes
- Identification of the Preliminary Preferred Pipeline Route
- Environmental Field Investigations

Consultation Program
- Notice of Project Start & Public Information Sessions
- Public information Sessions
- Community and Stakeholder Outreach (meetings, phone calls, door-to-door distribution of project newsletter)
- Consultation with Government Agencies (Conservation Authorities and Ministry of Natural Resources and Forestry)
- Notice of Project Update & Additional Information Sessions
- Additional Information Sessions
- Comments Resolution and Responses

Finalization of the Preferred Pipeline Route
- Finalization of Environmental Report
- Submission of Environmental Report to OPCC
- Complete OEB Filing
- OEB Approval

We are here
The following four Alternative Pipeline Routes were identified at the commencement of the Project.

**Alternative Pipeline Route 1A:**
Located within an existing public Right-of-Way along Durham Road West/Grey Road 4, Concession 2 WGR, Grey Road 25, Concession 4, Concession 2a, and Sideroad 1.

**Alternative Pipeline Route 1B:**
Located within an existing public Right-of-Way along Durham Road West/Grey Road 4, Concession 2 WGR, Robson Rd, Grey Road 25, Concession 4, County Road 40, and Sideroad 1.

**Alternative Pipeline Route 2:**
Located adjacent to the existing Union Gas easement between Durham Road West/Grey Road 4 and Sideroad 1.

**Alternative Pipeline Route 3:**
Located within an existing public ROW along Durham Road West/Grey Road 4, Highway 6 and Sideroad 1.

**Quantitative Comparative Evaluation**
A quantitative evaluation was conducted using Geographic Information Systems (GIS) (a computer-based mapping and analysis system) to determine the impacts on the natural and socio-economic features, including:

- Agriculture: prime agricultural lands
- Aquatic features: watercourses, and wetlands
- Route characteristics: length of pipeline
- Socio-economic features: residences, farms, businesses, road crossings, cultural and archaeological sites
- Terrestrial features: Areas of Natural and Scientific Interest (ANSI), wooded areas and conservation areas

**Qualitative Comparative Evaluation**
The qualitative evaluation of the Alternative Pipeline Routes involved a review of comments received to-date from interested and potentially affected parties, and the experience of the Project Team in routing linear infrastructure.

These comparative evaluations were used in determining the Preliminary Preferred Pipeline Route.
Alternative Pipeline Routes

**Existing Easement Alternative (Alternative 2)**

- New permanent easement required for the pipeline
- 8 metre separation between pipelines required
- 20 metre construction area required for most of the running line, additional area required at watercourses and road crossings.
- Direct impacts to wetlands, ANSI, Woodlands, and Conservation Areas
- Significant tree removal
- Temporary interruption to agricultural operations
- Direct disturbance to private lands and restrictions to development within the new pipeline easement
- Additional costs related to land acquisition

**Hwy 6 Alternative (Alternative 3)**

- 5 to 10 metre private temporary land use required for most of the running line, MTO standard location for pipelines is 1 m from property line
- Direct impacts to wetlands, ANSI, and Woodlands
- Direct disturbance to high volume regional traffic
- Constructability challenges through Williamsford
- Traffic and worker safety concerns
- Impacts on current and future needs of the provincial highway network
- Ministry of Transportation is not supportive of utility installations within Highway property limits
Alternative Pipeline Route 1B was selected as the Preliminary Preferred Route for the following:

- Use of the existing roadway for construction reduces environmental disturbance,
- Minimal direct impact to woodlands, wetlands, ANSIs and other natural areas,
- Lowest impact to private lands,
- Reduced social economics impacts,
- Improved traffic and worker safety relative to Hwy 6,
- Minimal impacts to agricultural lands,
- Favorable running line and support from municipalities.

Alternative Pipeline Route 1A was presented as the Preliminary Preferred Pipeline Route during the Public Information Sessions held in July 2017. A further comparative analysis identified the Alternative Pipeline Route 1B as the Preliminary Preferred Pipeline Route.
Union Gas proposes to install the pipeline along the edge of and in some locations within the running path of the Concession 2 and Concession 4. This location will benefit the environment by reducing the extent of tree removal and environmental disturbance associated with construction. However, this location will increase road closures, traffic restrictions and the duration of construction due to the constrained construction area available.
Construction Overview

The pipeline will be constructed within the previously disturbed road right-of-way in the Municipality of West Grey and the Township of Chatsworth, in Grey County.

Site Preparation
- Staking and surveying, clearing and grubbing
- Preparation of construction staging areas

Pipeline Construction
- Grading and preparation of the construction area
- Excavating the trench for the pipeline
- Stringing of pipe on wooded skids near the trench area
- Pipe welding, lowering into the trench and backfilling
- Hydrostatic testing, purging of air and packing the pipe with natural gas

Clean-Up and Site Restoration
- Removal and disposal of all construction materials and temporary facilities
- Restoration of the municipal road right-of-ways to pre-existing conditions
- Re-vegetation and re-seeding of natural areas, where needed
- Removal of environmental protection measures (e.g. silt fencing)

Potential Impacts to the Environment and Mitigation Measures during Construction
- The potential effects during the construction phase will mainly be related to vegetation removal along the municipal roads, where required. Other potential effects include potential alteration of terrestrial and aquatic habitats during pipeline construction and construction noise, dust and traffic
  - Impacts to terrestrial and aquatic communities will be mitigated by completing detailed environmental surveys and developing habitat specific Environmental Protection Plans
  - Dust will be mitigated by using best management practices including dust suppressants, implementing a speed limit and re-vegetating cleared areas as soon as possible
  - Noise will be mitigated through adhering to local noise by-laws and by keeping all construction equipment in good repair
  - Traffic impacts will be mitigated by developing a traffic management plan in coordination with the Municipality of West Grey and the Township of Chatsworth

uniongas
An Enbridge Company
Lands along the Preliminary Preferred Pipeline Route are categorized predominantly as Rural and Agricultural land use designations according to Grey County Official Plan (June 2013).

**Potential Impacts**

- Road restrictions and closures
- Temporary increases in noise, dust, and air emissions
- Increased construction traffic volumes along busy roads
- Temporary impairment of the use and enjoyment of property
- Vegetation clearing along the pipeline route

**How we will avoid / reduce impacts**

- Provide landowners with access across the construction area to residences, businesses and/or aggregate operations during construction
- Notification of road restrictions and closures
- Develop compensation strategies to replace vegetation removed as a result of pipeline construction
- Equip all construction vehicle engines with mufflers and/or silencers to ensure that noise levels from equipment are below the maximum acceptable noise limits at the nearest residence as mandated by the Ministry of the Environment and Climate Change
- When possible, restrict construction activities to daylight hours and adhere to any applicable local noise by-laws
- Avoid idling of vehicles and turn off vehicles and/or equipment when not in use
- Ensure the contractor implements a traffic management plan for all roads affected by construction activities
- Make contact information for a designated Union Gas representative available prior to and throughout construction activities in order to address any questions or concerns
- As often as possible, construction will remain within the previously disturbed municipal road right-of-way
- Use of dust suppression systems such as water trucks to minimize erosion by wind
A Stage 1 archaeological assessment is being conducted for the land to be impacted by the proposed pipeline. The objective of the Stage 1 background study is to document the archaeological and land use history and present existing conditions within the project study area. This information will be used to support recommendations regarding cultural heritage value or interest as well as assessment and mitigation strategies.

How we will avoid / reduce impacts

- Should land within the Project Study Area be determined to retain archaeological potential, a Stage 2 archaeological assessment must be conducted for all lands that will be used for construction or that will be subject to ground disturbance.

- Should previously undocumented archaeological resources be discovered during the Stage 2 archaeological assessment, a licensed consultant archaeologist will determine the need for further archaeological work.

- Should previously undocumented archaeological resources be discovered during construction, the proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out required archaeological fieldwork.

Heritage Resources

A Heritage Impact Assessment is currently being prepared to identify municipally, provincially, or federally recognized heritage resources or potential heritage resources within the Project Study Area. No recognized heritage resources have been identified following initial desktop and field investigations. As part of the Environmental Report, consultation will be undertaken with the Township of Chatsworth, the Municipality of West Grey, and the Ministry of Tourism, Culture, and Sport. In addition, consultation to date with the Municipality of West Grey, and Grey County indicated that no municipal heritage concerns were identified with the proposed pipeline development.

The pipeline development is not anticipated to result in direct or indirect impacts to heritage resources. If impacts are identified, mitigation measures will be prepared.
Union Gas understands the importance of protecting aquatic resources during construction and therefore will implement recognized mitigation measures to minimize possible environmental effects.

The Preliminary Preferred Pipeline Route crosses 22 watercourses.

Potential Impacts to the Environment

- Disruption and alteration to aquatic species and habitat and/or nuisance effects associated with construction
- Increased erosion, sedimentation, and turbidity resulting from removal of vegetation
- Release of drilling mud; or oil, grease and fuel leaks from equipment and operations

How we will avoid / reduce impacts to the environment

- Existing conditions of waterbodies that may be impacted by construction activities were accessed by a qualified fisheries biologist to determine the presence and significance of aquatic habitat and species.
- Where practical, feasible and ground conditions allow, avoid impacts to the watercourses by installing pipeline using trenchless pipe installation technique, such as horizontal directional drilling (HDD).
- Where construction activity occurs within 30 m of a waterbody clearly mark the construction area with protective fencing to avoid accidental damage to aquatic habitat and species.
- Follow sediment and erosion control plans endorse by DFO (DFO - UGL Agreement)
- Clean-up road repairs, driveways, fences, dispose of debris and re-seed disturbed areas, ditch banks and drainage feature crossings.
- Replace riparian vegetation as soon as weather permits following construction. Landscaping plans may also be developed for site restoration if necessary.
- Implementing Best Management Practices (BMP's), including: Refueling equipment and machinery outside 30 m of a watercourse, spills kits onsite, Hydro-Vac trucks onsite during drilling operations in case of spills or inadvertent releases.
Vegetation, Wildlife and Wildlife Habitat

A background information review and agency consultation indicated the presence of designated natural areas as well as Species at Risk (SAR), including several reptile, bird, plant and bat species, potentially present in the vicinity of the preliminary preferred pipeline route.

The preliminary preferred pipeline route occurs within or adjacent to four (4) significant wetlands including the Regionally Significant Sydenham Lowlands and the following three (3) Provincially Significant Wetlands (PSWs): Mountain Creek, Welbeck Wetland, and Minkes and Stewart Lakes.

There are three (3) ANSIs present along the preliminary preferred pipeline route including Kinghurst Forest, Harrison Lake and Fen, and Rocky Saugeen River.

The preliminary preferred pipeline route occurs within or adjacent to extensive wooded areas including County of Grey Significant Woodlands as well as agricultural fields, which provide habitat to a variety of local wildlife.

Terrestrial field investigations completed in the spring / summer of 2017 confirmed the presence of species listed as Endangered or Threatened under the Endangered Species Act, 2007 (ESA). In addition, terrestrial field investigations confirmed the presence of Significant Wildlife Habitat (SWH) including woodland area-sensitive bird breeding habitat, amphibian breeding habitat, and habitat for Species of Conservation Concern (SOCC, i.e., species listed as Special Concern under the ESA and / or provincially rare wildlife species).

Potential Impacts to the Environment

- Loss, damage and / or degradation of vegetation and ecological communities within or adjacent to the construction area;
- Impacts to significant wetlands, ANSIs, significant woodlands, SWH, and Species at Risk (SAR) habitat;
- Possible disturbance, displacement and / or mortality to local wildlife including SAR and SOCC

How we will avoid / reduce impacts to the environment

- Limit construction activities within the previously disturbed portion of the road allowance to the extant feasible.
- Site infrastructure footprint to avoid significant wetlands, ANSIs, significant woodlands, SWH, and SAR habitat wherever possible. Where this is not possible, use trenchless pipeline installation methods (e.g., horizontal directional drilling, boring).
- Where construction activity occurs adjacent to a sensitive natural features, clearly mark the construction area with protective fencing, such as silt fencing or other barrier, to avoid accidental damage.
- Prune any tree limbs or roots that are accidentally damaged by construction activities using proper arboricultural techniques.
- Minimize spread of invasive plant species by ensuring equipment and machinery is clean prior to arriving on-site.
- Conduct vegetation clearing and trimming outside of the overall bird nesting period (April 1-August 31) to avoid incidental take and limit disturbance to breeding birds (including SAR and SOCC).
We asked for your feedback – here’s some of what you told us

How will you address environmental impacts?

Now proposing to construct in area between the gravel and the grass in sensitive areas as a result of consultations.

How will you handle the Saugeen River crossing?

Pursuing a potential crossing that traverses the historic road allowance rather than following the road to mitigate impacts.

How will you handle traffic issues?

Our construction schedule will evolve to help mitigate some of these impacts. We also plan to have a community liaison present during construction to communicate and address any issues proactively.
Your Questions?  
And Our Answers.

**Will access be maintained to my home / business?**

Yes, Union Gas will maintain access to homes and businesses along the project route. There may be a requirement for a short disruption in order to construct across your driveway but this will most likely be limited to a portion of a day and it will be coordinated well in advance so arrangements can be made.

**Will it be necessary to remove trees? If so, will Union Gas replace them?**

We are not anticipating the need to remove many trees with the construction of this project given we have secured a favorable running line from the municipality. However, in the event a tree is removed or damaged, we will work with the municipality / landowner to replant in a specified area based on our tree replacement policy. In rare cases, the municipality may require Union Gas to remove trees for safety reasons.

**Will the road lose its “country feel” following construction?**

No. Through conversations with landowners and naturalist groups along the route, we have heard loud and clear the need to maintain the “country feel” along the route. As a result, we have worked with the municipalities to secure a favourable running line that will allow us to construct in the road minimizing the need for widening / large scale tree removal.

**Can you construct safely through the environmentally sensitive areas along the route?**

Yes. Union Gas has over 100 years experience constructing pipelines across Ontario. On many of our projects we encounter sensitive environmental areas and through in-depth planning, permitting and unique construction techniques we are able to minimize impacts to the environment and always restore the area back to its original state.
Where will the pipeline be constructed in the road?

Our preliminary plans are to construct the pipeline in the bed of the road at what we call the “gravel-grass interface” in sensitive areas. This is the area where the road meets the grass shoulder. By pursuing this running line, we will be able to minimize tree removal and environmental impacts.

Once completed, will I be able to tell there is a natural gas pipeline along my road?

We restore our construction routes to the same condition (or better) than when we found them. With the exception of pipeline safety markers, underground pipelines are concealed following construction.

Will the pipeline impact the value of my property negatively?

The overwhelming majority of our pipelines are located within municipal right-of-ways, as proposed on this project. We have never encountered a situation where the placement of a pipeline had any impact on property values.
Serving more than 400 communities in Ontario, we consider ourselves strong community partners who believe in and are committed to public consultation. During the planning stages for this project, we have consulted and will continue to consult with local landowners, First Nations and Métis communities, government agencies and other interested parties that could be impacted by the project.

**KEY MILESTONES:**

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<td>Commence the Environmental Planning process</td>
<td>Host Public Information Sessions</td>
<td>Conduct door-to-door engagement Host Additional Information Sessions Completion of Environmental Report (ER) Finalize Pipeline Design and Construction Plans Submission of ER to Ontario Pipeline Coordinating Committee Complete Ontario Energy Board Filing</td>
<td>Commence Construction of Pipeline</td>
<td>Pipeline in service</td>
<td>Post Construction Monitoring and Site Restoration</td>
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Next Steps

- Summarize and respond to information session feedback
- Confirm results of background reviews based on comments received
- Finalize Preferred Pipeline Route
- Prepare Environmental Report and circulate for review
- Prepare the regulatory application
- Complete remaining field surveys
On behalf of the Project Team, thank you for attending this Information Session. We appreciate your involvement in the consultation process and we would like to hear from you.

For regular project updates, please visit: uniongas.com/owensound

Please fill out the Exit Questionnaire.
If you have any further comments or questions please contact:

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