

Vaughan Mainline Expansion Project



The Vaughan Mainline Expansion Project

TransCanada is planning to construct, own and operate a new natural gas transmission pipeline in the City of Vaughan in order to continue to provide homes, businesses, schools and hospitals in Ontario and Eastern Canada with a safe and reliable source of natural gas.

The project will address customer demand for natural gas in Ontario and Eastern Canadian markets, providing improved access to new natural gas supplies from the U.S. Northeast.

The Vaughan Mainline Expansion (VME) Project will be integrated into TransCanada's existing Canadian Mainline System when complete. The project will include the construction of approximately 12 km of 42-inch diameter pipe for the purpose of transporting natural gas.

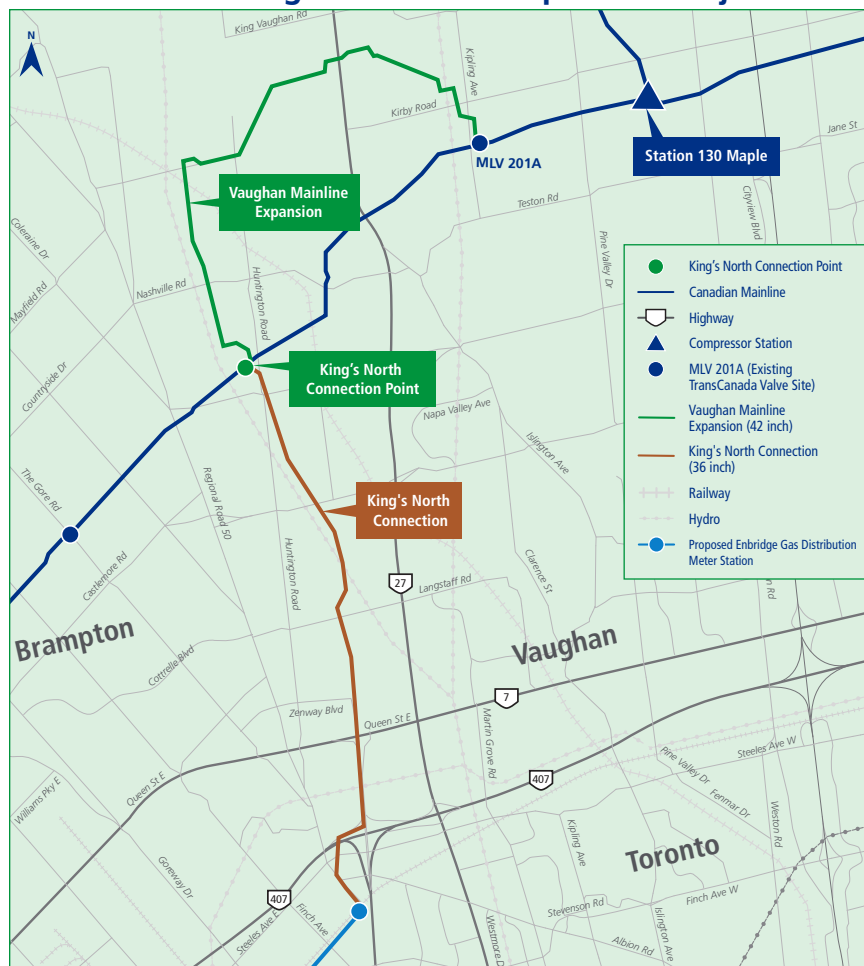
In addition to improved access to natural gas, the project will also provide financial benefits to the City of Vaughan through local spending during construction and through annual property tax payments and community partnerships and investments.

TransCanada has been engaging with landowners, municipal officials, First Nation and Métis communities and organizations, and other stakeholders as part of the engagement process. The proposed route for this pipeline reflects the outcomes of stakeholder and Aboriginal engagement, environmental assessment and engineering studies.

TransCanada received approval for the VME Project from the National Energy Board (NEB) on August 4, 2016.



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Stakeholder and Aboriginal Engagement

TransCanada's stakeholder engagement process involves identifying potentially affected parties and engaging with them to promote information exchange in a transparent, consistent and timely manner with the intent of gathering feedback to complete a more successful and responsible completion of the project. TransCanada will continue to work with stakeholders throughout the permitting and construction phases and on an ongoing basis during the operation of the pipeline.

TransCanada will share project information in a number of ways throughout the life cycle of the project including face-to-face meetings, mail-outs of project materials, project advertising and a project webpage. We will seek input through open houses, individual meetings and presentations and provide additional communication channels through email and toll-free number.

We believe that ongoing engagement with municipal officials representatives, landowners, First Nation and Métis communities and organizations and stakeholders results in better projects – for TransCanada and for the community.

The Pipeline Route

The pipeline will commence near the northern end of TransCanada's King's North Connection located just north of the intersection of Major Mackenzie Drive and Huntington Road. The pipeline will then run north to Kirby Road, where the pipeline will run east between Kirby Road and King Vaughan Road. Once the pipeline reaches Kipling Avenue it will then turn south and connect into TransCanada's Canadian Mainline.

Project Schedule:

Q1 2015	Commence landowner, municipal, First Nation, Métis and stakeholder engagement
Q1 2015	Commence survey, field studies and route analysis
Q2 2015	Public Open House
Q4 2015	Submit application to the NEB
Q3 2016	NEB approval received (August 4, 2016)
Q4 2016	Commence construction
Q4 2017	Construction complete and pipeline placed in-service

Community Benefits

The project will create positive economic benefits for the City of Vaughan and the surrounding area through expenditures during construction, including the purchase of local goods and services and, once in operation, will result in an increase in annual municipal property taxes to the City of Vaughan. TransCanada is also proud to contribute to community organizations which play a role in improving the quality of life in the communities where we live and work. We look forward to continuing to develop community partnerships in the City of Vaughan.



Environmental Protection

As part of our regulatory application, TransCanada collected and analyzed site-specific environmental information for the Project in order to understand potential impacts and to develop an effective Environmental Protection Plan (EPP). Specifically, the assessment considered impacts to soil, vegetation, wildlife, historical resources, land use, water crossings and aquatic resources. The EPP identifies specific measures to mitigate impacts during and following construction activities.

What to Expect During Construction and Beyond

TransCanada will develop a construction plan and will consider feedback from stakeholders in addition to working with the City of Vaughan to minimize disruption as much as possible. For example, while an increase in traffic flow is expected in the project area, construction workers will be bussed to work sites to minimize this impact. In addition, when road crossings will be drilled or bored, no road closures are anticipated however intermittent slowdowns can be expected during shipment of materials and equipment.

During construction, there will be heavy equipment on site for use in moving soil, excavating, material handling/hauling, welding and testing. After facilities have been built, there will be minimal traffic or other impacts associated with ongoing operations and maintenance. Strict adherence to construction plans and mitigation measures in the EPP will reduce the effects of construction activities on the local community.

Construction activities generate a certain amount of noise. Work hours are typically Monday to Saturday 7 am to 7 pm. TransCanada will work with the City of Vaughan to adhere to noise by-laws. Neighbours will be notified of any significant changes to work hours in cases where construction hours need to be extended.

Once construction is complete, clean-up and reclamation measures will be employed to prevent topsoil/surface material loss, establish vegetative cover, and re-establish the right-of-way complying with approval and landowner commitments. The overall objective is to maintain equivalent land capability.

Pipeline Safety & Integrity

Safety is a core value at TransCanada. The safety of employees, contractors and members of the community is an integral part of the way we design, construct and operate our pipeline facilities.

- Pipelines are the safest mode of transportation for energy products.
- TransCanada has extensive programs to monitor, inspect and maintain our pipeline facilities.
- We constantly improve our practices using new technology and developments.
- All aspects of TransCanada's design, construction and operations are regulated by the NEB.

Design

TransCanada uses top quality steel and welding techniques throughout our 68,500 kilometre natural gas pipeline network. We take additional safety precautions such as thicker pipe and greater depths where pipelines cross roads, railway tracks, waterways and in areas with high population densities.

Construction

During construction, rigorous inspection is conducted which includes all welds being checked by an x-ray or ultrasonic process to confirm the welds are sound. To protect against corrosion, the external surface of the pipeline is coated, and a low-voltage current is applied to prevent corrosion.

Operations

The entire system is monitored 24 hours a day by highly trained TransCanada employees from a computerized control centre. From here, we are able to detect changes in pressure along our pipelines and confirm that all facilities are operating properly.

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About TransCanada

- With more than 65 years of experience, TransCanada is a leader in the responsible development and reliable operation of North American energy infrastructure.
- Transports the majority of western Canada's natural gas production to market.
- Moves 25 per cent of the continent's daily natural gas supply.
- Owns or has interests in 17 power generation facilities with the capacity to generate 10,500 megawatts (MW) of electricity, which is enough to power more than 10 million homes. More than one-third of the power we produce comes from emission-less sources including nuclear, hydro, wind and solar.

TransCanada in Ontario

In Ontario, TransCanada's operations:

- Cross approximately 5,666 private properties;
- Are located in 107 municipalities;
- Are located near 39 Aboriginal communities; and
- Invested \$2.3 million in local Ontario organizations in 2015 to improve the quality of life in their communities.

Also in the province, TransCanada:

- Owns nearly 8,000 kilometres of pipeline;
- Contributes approximately 4,050 megawatts of generating capacity;
- Employs approximately 340 permanent staff as well as hundreds of additional specialized contractors;
- Pays more than \$47 million in annual salaries; and
- Invests more than \$12.8 million to community organizations in the last decade.

Contact Us

We invite you to contact TransCanada with any questions or comments you have with regards to the project:

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