



T-South Reliability and Expansion Program

Overview

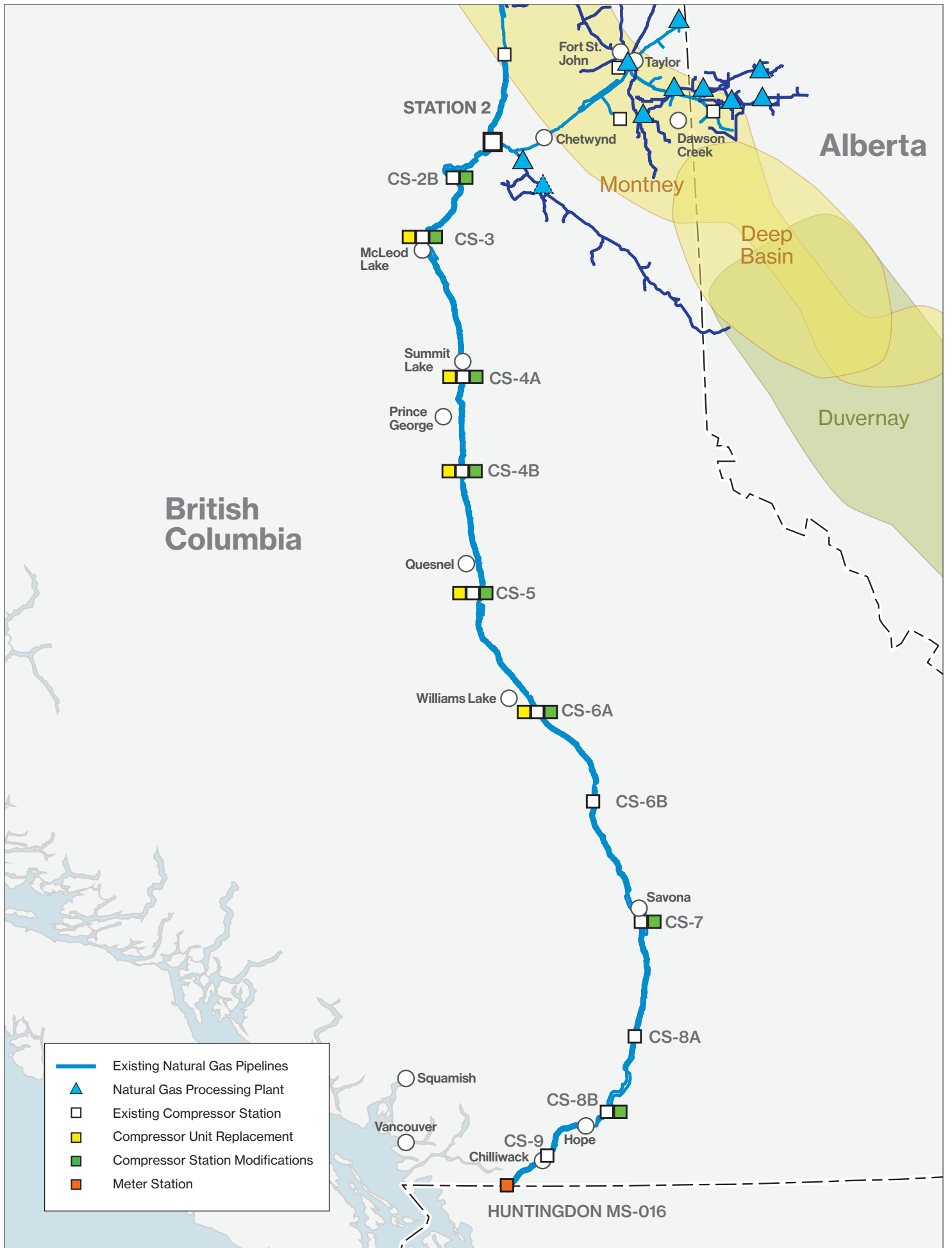
Enbridge Inc. merged with Spectra Energy in early 2017, and as a result Enbridge now owns and operates British Columbia's (B.C.) major gas transmission system. This system connects the province's natural gas exploration and production industry with millions of consumers in B.C., Alberta and the U.S. Pacific Northwest. This gas is used to heat homes, businesses, hospitals and schools. It is also used as a fuel for electric power generation and is a staple in many industrial and manufacturing processes.

Enbridge is conducting upgrades and a number of reliability enhancements on the southern portion of its natural gas transmission system (T-South) which stretches from south of Chetwynd, B.C. to the southernmost point at the Canada/U.S. border at Huntingdon/Sumas.

This work, known as the **T-South Reliability and Expansion Program**, will involve installing new, or replacing and decommissioning old compressor station units with more reliable and efficient units, as well as undertaking smaller upgrades and operational maintenance at various facilities along the system. These upgrades are being undertaken as part of operating a safe natural gas pipeline system and will accommodate increased customer demand on the system.

What is a Compressor Station?

Compressor stations are used to move natural gas through the pipeline to maintain its flow and pressure. To ensure optimal flow through the pipeline system, natural gas must be periodically compressed and pushed through the pipeline. Over extended distances, friction and elevation differences reduce the pressure within the pipeline and slow the flow of gas. That's where compressor stations play a significant role.

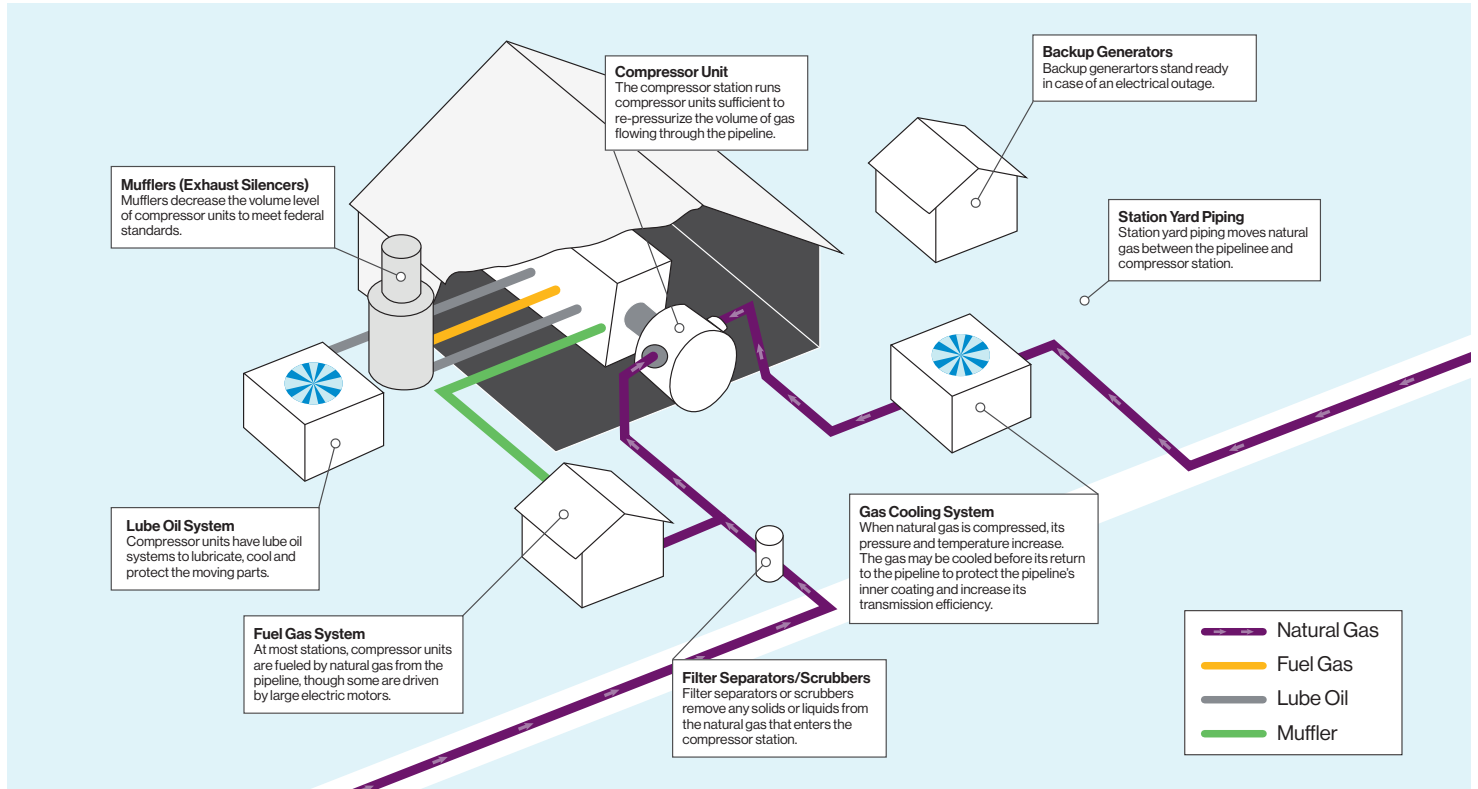


Project Scopes

Five new compressor units and associated equipment to support their operation will be installed at **five existing compressor stations**. Additional smaller upgrades will be made at a further three existing facilities.

All work associated will take place on Enbridge property and in accordance with all regulatory and environmental requirements. The construction and operation of these facilities is regulated by the National Energy Board (NEB). It will adhere to all B.C. Oil and Gas Commission noise guidelines and make use of noise reduction features.

The image below shows the key components of a compressor station and how each part ensures the unit functions efficiently and safely.



In addition to the key components shown in the diagram above, the following activities will take place at some of the stations.

Horsepower Enhancement

Software upgrades on the compressor and gas turbine that will enable increased available power for gas compression.

Rewheel

Replacement of an impeller wheel inside the compressor unit that will allow the compressor to have better efficiency and operating flexibility in changing gas flow conditions.

Planned Activities	Compressor Station 2B	Compressor Station 3	Compressor Station 4A	Compressor Station 4B	Compressor Station 5	Compressor Station 6A	Compressor Station 7	Compressor Station 8B
Horsepower Enhancement	✓					✓	✓	✓
Rewheel	✓		✓	✓				
Backup Generator Installation (or Genset)							✓	
Gas Cooling System Installation		✓	✓	✓	✓	✓	✓	
New Compressor Unit Installation		✓	✓	✓	✓	✓		

Project Timelines

Work associated with the T-South Reliability and Expansion Program is scheduled to take place between 2018 and late 2020/early 2021.

Four regulatory applications will be filed for this work with the NEB in Summer 2018: three reliability applications for the compressor station units at Compressor Stations 3, 4A and 5, and one expansion application for the compressor station units at Compressor Stations 4B and 6A and all other facility upgrades and modifications listed in this document.

Environmental studies, archaeology studies and land surveying began in Spring 2018 and will continue until end of Summer 2018.

Construction activities at the compressor stations are anticipated to begin in Spring 2019 with in-service dates in late 2020/early 2021.

These timelines are subject to change.

Environment Studies

Enbridge is conducting environmental studies to support this work, including archaeological studies where required. Enbridge is planning to undertake additional archaeology work in Spring 2018, as well as further environmental studies regarding air and noise emissions assessments.

Community and Indigenous Consultation

Enbridge is committed to working with Indigenous communities, landowners and other potentially interested parties who may be impacted by this work. By understanding these interests early on, we are in a better position to incorporate them into Project planning. This dialogue will continue throughout construction and into the continued operation of the T-South system.

Commitment to Safety

At Enbridge, safety is a core value. All our construction and maintenance activities are focused on protecting the public, the environment and local property, while maintaining a safe, efficient and reliable system. Compressor stations safely operate day and night and include systems to protect the public, station employees and the environment. Every compressor station has operations staff onsite to monitor the flow of natural gas, perform safety checks and proper system maintenance, and to keep the facility safe and secure. Every station is equipped with an emergency shutdown system that can stop the flow of gas from either of our two 24-hour natural gas control centres in Fort St. John, B.C. and Calgary, Alberta.

We want to hear from you!

Enbridge values meaningful engagement with all potentially affected Indigenous communities, stakeholder groups and landowners. You can get in touch with us at any time with your questions or comments. Here's how:

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