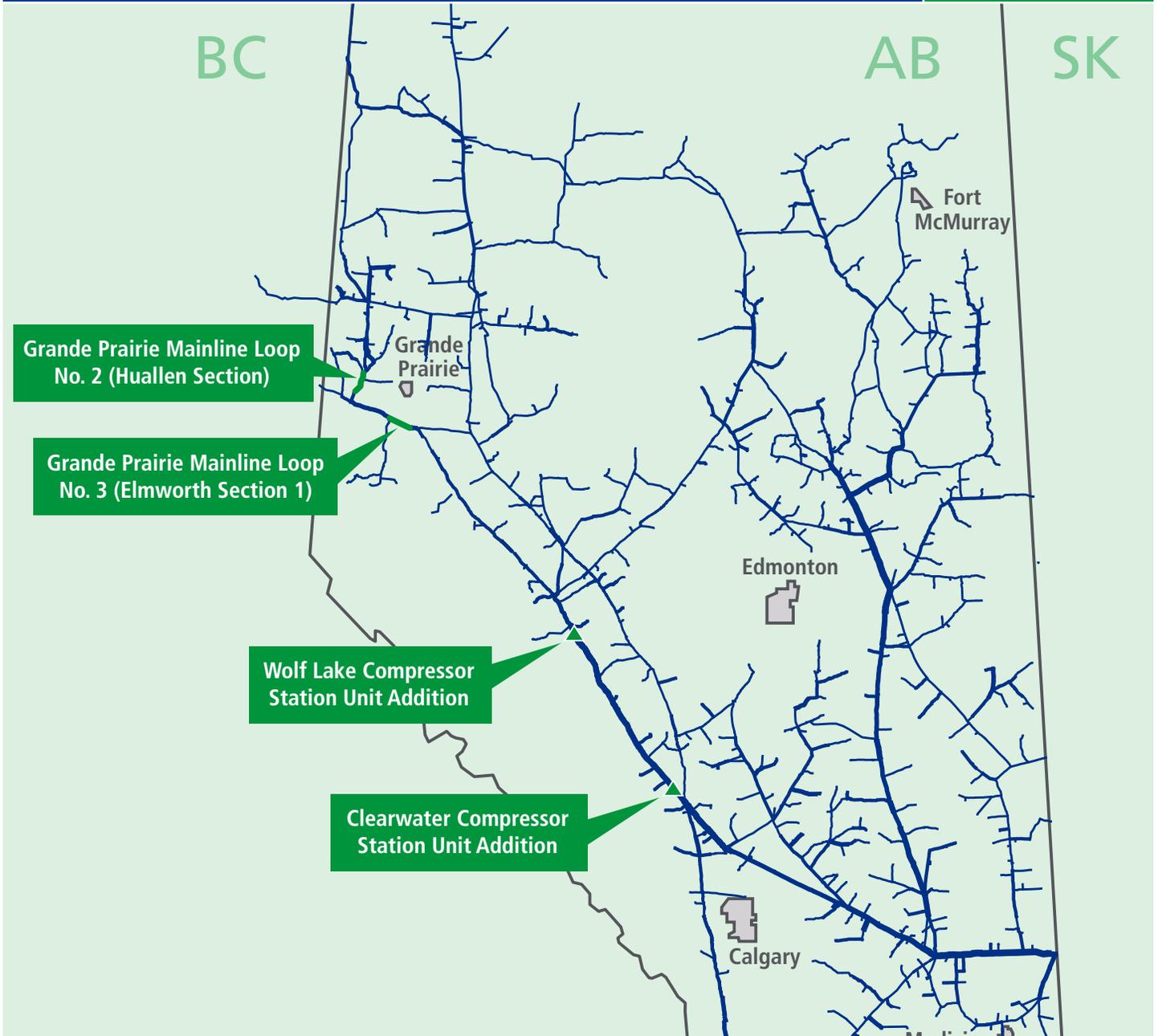


Proposed Project: Clearwater West Project



Clearwater West Project

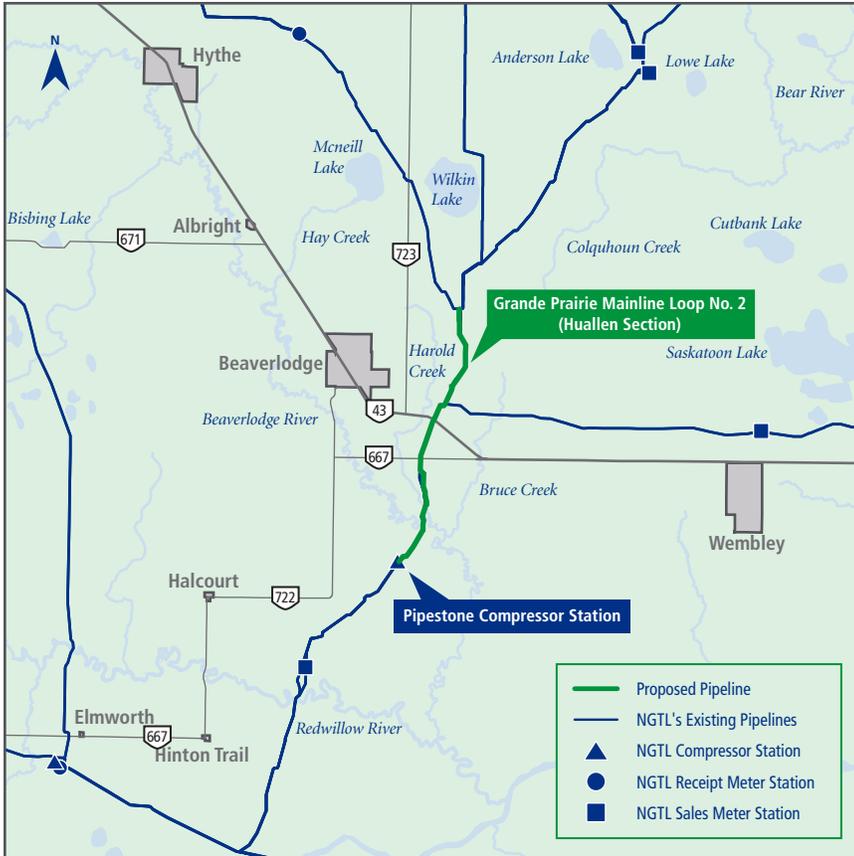


The Project

NOVA Gas Transmission Ltd. (NGTL) System, a wholly owned subsidiary of TransCanada PipeLines Limited (TransCanada), is proposing to construct and operate new facility additions to its natural gas pipeline system in northern Alberta as the Clearwater West Project (the Project). The Project is required to accommodate the transportation of growing natural gas production from the Peace River area, which includes a shift of production from other areas on the NGTL System to the northwest portion of the NGTL System. The Project will support many Canadian natural gas producers, allowing TransCanada's NGTL System to continue to meet aggregate system needs and provide safe, reliable access to North American markets. We anticipate submitting an application to the National Energy Board (NEB) under Section 58 of the *National Energy Board Act* in Q2 2018 with an anticipated in-service date in Q2 2020 for all Project components.

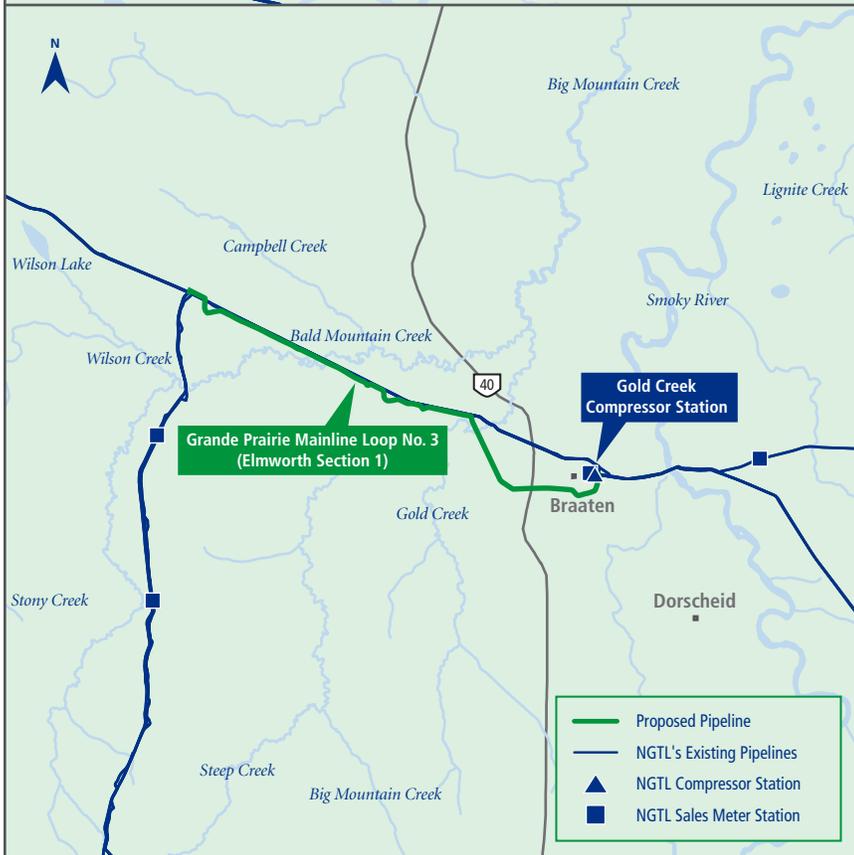
Project Schedule

- **Q3 2017** – Initial stakeholder notification and consultation
- **Q2 2018** – Anticipated Section 58 Project application to the NEB
- **Q1 2019** – Anticipated regulatory approval to construct
- **Q1 2019** – Begin construction of Compressor Station and pipeline additions
- **Q2 2020** – Anticipated in-service dates for all Project components



Grande Prairie Mainline Loop No. 2 (Huallen Section)

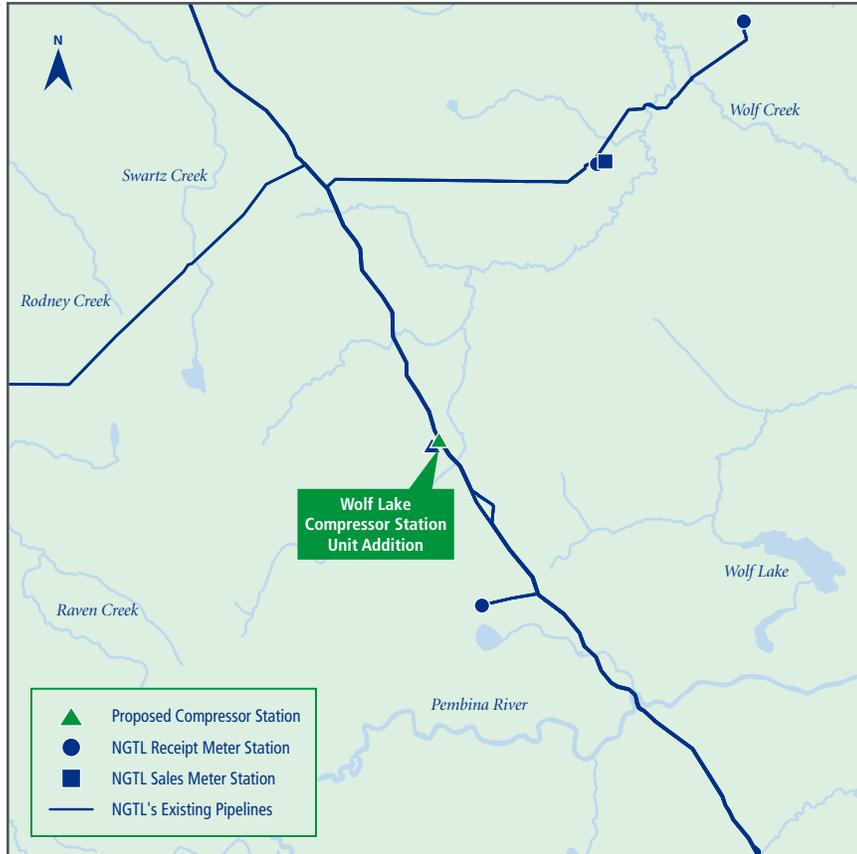
The proposed pipeline section would be located parallel to an existing pipeline corridor where feasible in the County of Grande Prairie in Alberta. The installation of approximately 13 kilometres (km) of 48-inch diameter pipeline would start approximately eight km southeast of Beaverlodge, Alberta at SE-12-71-10 W6 and ending at SW-17-72-9-W6.



Grande Prairie Mainline Loop No. 3 (Elmworth Section 1)

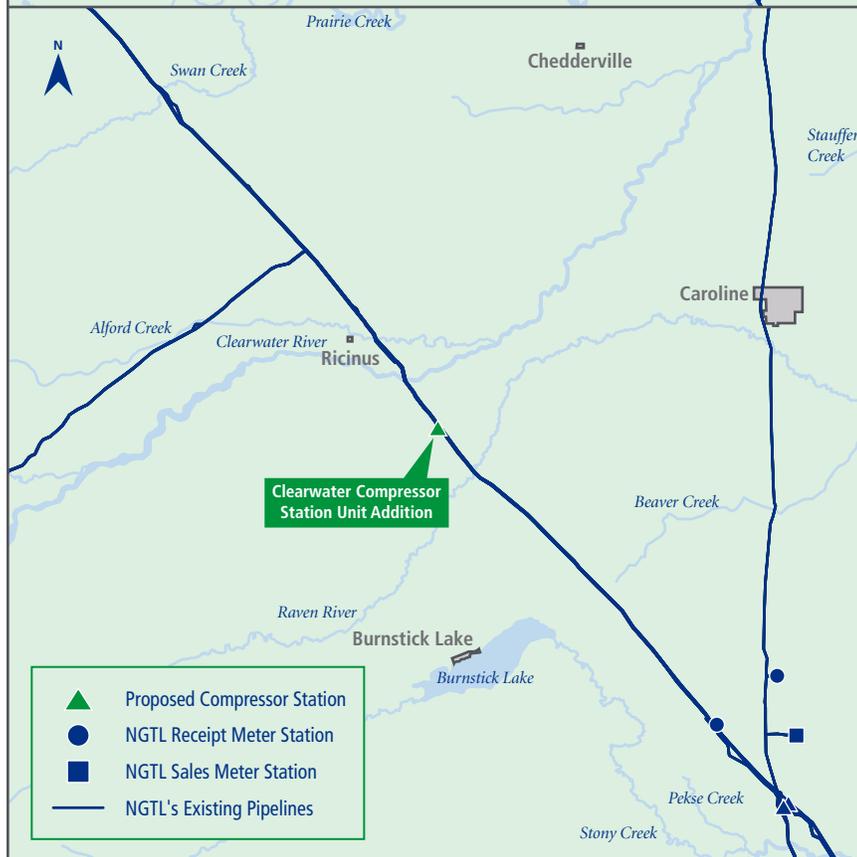
The proposed pipeline section would be located parallel to an existing pipeline corridor where feasible in the Municipal District of Greenview in Alberta. The installation of approximately 24 km of 48-inch diameter pipeline would start approximately 28 km south of Grande Prairie, Alberta at NE-26-67-05 W6M and ending at NW-24-68-07 W6M.

Clearwater West Project



Wolf Lake Compressor Station Unit Addition

The proposed 30 Megawatt (MW) compressor station unit addition installation would take place at an existing compressor station site located 39 km southeast of Edson, Alberta at NW-23-049-16-W5M in Yellowhead County. The proposed unit addition would be located on NGTL owned lands.



Clearwater Compressor Station Unit Addition

The proposed 30 MW compressor station unit addition installation would take place at an existing compressor station site located 16 km southwest of Caroline, Alberta at SE-03-036-07-W5M in Clearwater County. The proposed unit addition will also require the acquisition of new lands.



At TransCanada, our approach is to safely deliver the energy the world needs in an economically, environmentally and socially responsible manner. Here's how we deliver on this commitment:

Commitment to Engagement and Addressing Issues

Making sure our stakeholders are engaged and respected is critical to TransCanada's success. We are committed to sharing information and seeking input to help improve our plans – for us, for our stakeholders and for communities as a whole. Our Project team will work with local communities by providing opportunities to submit feedback for consideration in our planning.

TransCanada's approach to engagement with stakeholders, landowners and Indigenous groups is aimed at understanding concerns and addressing issues related to our projects and operations. We consult early and often, invite feedback, and continue to provide updates and address concerns throughout the regulatory process and operations.

TransCanada's preferred method for addressing the concerns of stakeholders, landowners and Indigenous groups, is through direct and respectful discussion. Issues received or identified through ongoing engagement are systematically tracked and followed up on to promote resolution. In the event that resolution through this approach is not achievable, the parties may consider use of the NEB's collaborative Appropriate (or alternative) Dispute Resolution (ADR) Process. More information about NEB processes can be found at www.neb-one.gc.ca.

To ensure ongoing engagement with stakeholders throughout the life cycle of our facilities, regionally located community, Indigenous Relations, and Land personnel are assigned to each operating region and are the first point of contact for public awareness and any future enquiries after the project begins operations.

Engaging Indigenous Communities

Building and maintaining relationships with Indigenous communities near our proposed projects and existing facilities is an integral part of TransCanada's business. TransCanada works with communities to identify potential effects of company activities on each community to find mutually satisfactory solutions and benefits.

Community Benefits

The proposed Project will offer economic benefits and strengthen the economy on a local, provincial and national level.

- **Employment Opportunities** – Construction will require the services of equipment operators, welders, mechanics, truck drivers, labourers and more. TransCanada has a Vendor Registration site where interested local service providers can express interest in working with us. Please visit www.transcanada.com for more information about how to register with us.
- **Business Opportunities** – Pipeline construction will create demand for local goods and services including food and accommodation, hardware, industrial parts, automotive parts and servicing, fuel and more.
- **Annual Revenue to Support Local Services** – Pipeline construction will result in tax payments to municipal, provincial and federal governments. When the pipeline is operational, annual tax payments will help support schools and hospitals, emergency services, recreation facilities, recycling programs and other local programs vital to sustaining communities.
- **Investments in Local Communities** – Giving back to the communities where we operate is part of our culture. Whether it's partnering with community groups, supporting local initiatives or encouraging our employees to be involved in their neighbourhoods, the goal of our Community Investment Program is to build strong and vibrant communities across North America. TransCanada also has a long history of providing support for education and training in the communities where we do business. More information about our Community Investment Program is available online at www.transcanda.com.

Clearwater West Project



Minimizing our environmental footprint

TransCanada has a long-standing commitment to protect the environment where we live and work. As part of our commitment, and in support of regulatory processes, TransCanada assesses the potential effects that may be associated with construction and operation of a proposed project. Some examples of potential effects associated with a project like a compressor station or pipeline project are potential effects to soil, water, vegetation, fish and wildlife, archaeological resources, air quality and noise, infrastructure and services, and communities and their economies.

The Environmental and Socio-Economic Assessment (ESA) that will be prepared for the proposed Project considers these potential project effects, proposes mitigation and evaluates the significance of residual effects once these measures are implemented. An Environmental Protection Plan (EPP) is also developed to identify the necessary measures to be used during construction, to manage environmental effects, and to ensure equivalent land capability following reclamation.

What to Expect During Construction and Beyond

During construction, there will be an increase in traffic flow in and around the project area. TransCanada will make efforts to minimize the traffic by selecting construction site locations close to the project. There will be heavy equipment onsite for earth moving, excavation material handling/hauling, welding and testing. After the facilities have been built, there will be minimal traffic associated with ongoing operations and maintenance. Construction activities typically generate a certain amount of noise. TransCanada will meet applicable limits on noise throughout construction and the ongoing operations of the Project. Measures will be taken to prevent topsoil/surface material loss from wind and water erosion, topsoil and subsoil mixing, and to establish a vegetative cover that is compatible with surrounding vegetation and land use.

Once construction has been completed, the land surface will be reclaimed. On freehold lands, landowners will have the right to fully use and enjoy the right-of-way subject to the terms of the right-of-way agreement and the *National Energy Board Act* and *National Energy Board Damage Prevention Regulations*. Crossing a pipeline with an agricultural vehicle is authorized if it meets the conditions of the *National Energy Board Damage Prevention Regulations*. Activities that do not require authorizations are: cultivation to a depth of less than 45 cm below the surface of the ground; or any other activity to a depth of less than 30 cm and that does not result in a reduction of the earth cover over the pipeline to a depth that is less than the cover provided when the pipeline was constructed.

To provide for public safety and to protect property and the environment, making a click- or call- before you dig and obtaining authorization from TransCanada is required prior to disturbing the ground within 30 meters of our pipelines.

Pipeline Safety

For more than 65 years, TransCanada has been a leader in the safe and reliable operation of North American energy infrastructure. From design to construction, to operations and maintenance, safety is integral to everything we do. We use top quality steel and industry-leading welding techniques throughout our pipeline system to meet and exceed industry standards.

We take additional safety precautions when the pipeline crosses roads, railways, waterways and communities. During construction, welds are checked by x-ray and/or ultrasonic inspection methods and then we pressure-test the pipe, which is coated to protect against corrosion. We also use sophisticated inspection devices to record information about the internal conditions of the pipeline. TransCanada monitors its pipeline 24 hours a day, 365 days a year. If a drop in pressure is detected, we quickly identify the problem area and isolate that section of the pipe, closing the valves that control the flow of gas. Trained crews are dispatched by land or helicopter, depending on the location. If there is an incident, we work closely with authorities, emergency responders and the media to ensure residents in the area are aware of the situation and are safe.

Emergency Preparedness and Response

Our goal is to ensure that our pipeline and energy facilities operate safely every day and that the public, our employees and the environment are not negatively affected by an incident involving our facilities. We have an industry-leading safety record, and our goal is to have zero safety incidents at our facilities. Being prepared for the rare cases when something does go wrong is part of our commitment to ensuring the safety of the communities where we operate.

The proposed Project components will be designed, built and operated in a safe and environmentally responsible manner. In the unlikely event of an emergency, our comprehensive Emergency Response Program would be activated. We train our staff to know exactly what to do in the event of an emergency, both during construction and ongoing operations and work with area emergency responders to ensure a coordinated response in the event of an incident.

In the event of an emergency, please contact TransCanada's 24- hour emergency line at 1.888.982.7222.



About TransCanada

We are a Canadian company, with over 65 years of experience building and operating pipelines throughout North America. We are an industry leader in safety and reliability. We believe in making a positive difference in the lives of others by investing in our communities. TransCanada takes our commitment to being a good neighbour seriously and takes pride in being a strategic community partner and an employer of choice.

TransCanada plays a vital role in connecting energy supplies to key North American markets with assets in our natural gas pipelines, energy, and oil pipelines portfolios.

We operate one of the largest natural gas transmission networks in North America – 90,300 km – tapping into virtually every major gas supply basin and transporting over 25 per cent of the continent’s daily natural gas supply. We are North America’s third largest provider of natural gas storage and related services with more than 664 billion cubic feet of storage capacity.

Our 4,300 km Keystone Pipeline System transports approximately 20 per cent of western Canadian crude oil exports to key refineries in the U.S. Midwest and Gulf Coast, where it is converted into fuel and other useful petroleum products.

We currently own or have interests in power generation facilities with the capacity to produce 6,200 megawatts (MW) of electricity, enough to power more than six million homes. Our portfolio includes hydro, solar, wind, simple cycle, combined cycle and natural gas-fired cogeneration plants that provide energy to communities across North America.

Our success is a reflection of our exceptional team of almost 7,100 employees who bring skill, experience, energy and dedication to the TransCanada family. Not only do they contribute the success of our company, their work has a positive social and economic impact on the places they call home across seven Canadian provinces, 33 U.S. states and five states in Mexico.

You can find out more about our business, our history, and our focus on the future by visiting www.transcanada.com.

Contact Us

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

Phone: 1.855.895.8754

Email: community_relations@transcanada.com
www.transcanada.com

or write the project team at:

TransCanada

Cole Thomson

Community Relations Area Lead – Prairies

450 – 1st Street SW

Calgary, Alberta T2P 5H1

If you would like further information regarding the National Energy Board’s approval process, we would be pleased to provide you with information or you can contact the regulator directly:

National Energy Board

517 Tenth Avenue SW

Calgary, AB T2R 0A8

Phone: 1.800.899.1265

Email: info@neb-one.gc.ca

www.neb-one.gc.ca

TransCanada periodically provides project information beginning at the early stages of project development, continuing throughout the life of the project. The information provided is intended to give people the opportunity for meaningful input. Please be aware that as projects progress, new information becomes available and details may change from the time of this printing. Please contact TransCanada (using the contact information listed above) with any questions.

