Heartland Pipeline GP Ltd., a wholly owned subsidiary of TransCanada PipeLines Limited is proposing to build, own and operate the Heartland Pipeline Project in the province of Alberta.

The Heartland Pipeline Project will assist in the movement of crude oil from Alberta’s Industrial Heartland area to the Hardisty, Alberta hub, and will be a key development in ensuring necessary infrastructure is in place to safely and reliably connect important Canadian crude oil resources in northern Alberta to markets in Alberta, eastern Canada and the United States.

The Heartland Pipeline Project will consist of a 914 millimeter (36-inch) crude oil pipeline approximately 200 kilometres (km) in length with associated pipeline installations and surface facilities. Further details on the scope of the project can be found throughout this brochure.

Building and maintaining relationships is an integral part of TransCanada’s business. Through proactive communications and engagement, we will work to achieve long-term relationships, based on mutual trust and respect, with stakeholder and Aboriginal communities along the project corridor as the project progresses.
Proposed Heartland Pipeline Project

Heartland Pipeline Project Details:
The following highlights the details of the Heartland Pipeline Project.

Proposed Pipeline:
- Pipeline Length: approximately 200 km
- Pipeline Diameter: 914 mm (36 inch)
- Pipeline Capacity: Applying for approximately 600,000 bbl/d with potential for expansion to 900,000 bbl/d
- Pipeline Starting Point: 13 km northeast of Fort Saskatchewan, Alberta
- Pipeline End Point: 7.1 km south of Hardisty, Alberta

The pipeline is categorized as AER Category B, Type 121 "Pipeline, Other."

Proposed Pump Stations:
We plan to install two pump stations at proposed facility sites shown on the map, which will have 6500 HP electric pumps and associated facilities.

The pump stations are categorized as AER Category B, Type 133 "Pump Station."

Project Timelines
TransCanada began initial engagement with stakeholders and Aboriginal communities through a feasibility study in the fall of 2012.

Heartland Pipeline GP Ltd. filed an application with the AER in the fall of 2013 to construct, own and operate the Heartland Pipeline project.

Pending regulatory approvals, construction for this project is anticipated to commence in the first quarter of 2015, with the majority of activities taking place over the summer of 2015.

Stakeholder and Aboriginal Engagement
TransCanada is proud of the relationships we have built with our neighbours over the past 60 years. Building and maintaining relationships with stakeholders and Aboriginal communities near our projects is an integral part of the way TransCanada conducts business. We strive to engage early and often. Our participant involvement program with stakeholders and Aboriginal communities is underway to share project information, gather input, and answer questions about this project.

We are engaging with communities to understand their views about the proposed project, and to work together in developing mutually satisfactory approaches and benefits. We will continue to engage stakeholders and Aboriginal communities throughout the life cycle of this project.

We welcome your input and encourage you to contact us (please see contact information listed on the back).

Pipeline Route Selection
At the present time, we have identified a potential corridor for the pipeline based on an initial feasibility study. Before determining a preferred route, we will consider a number of factors such as safety, environmental, constructability, land use compatibility, socio-economics, archaeological and historical sites, and will continue to gather input from stakeholder and Aboriginal communities along the pipeline corridor.

To minimize the project’s footprint and environmental impacts, we will parallel or utilize existing linear disturbances where we can. We anticipate that the majority of this project will follow existing pipeline rights-of-way, utility corridors and road allowances.

Environmental and Socio-Economic Considerations
Our intent is to avoid or minimize potential effects on the land and the environment. We will collect and analyze site-specific environmental and cultural information to understand the potential environmental effects of this project. This assessment considers potential effects on archaeology/paleontology, heritage and traditional land resources, noise, soils, wildlife, watercourses, vegetation, protected areas, resource uses, infrastructure and services, and other socio-economic impacts and considerations.

An Environmental Protection Plan will be developed to identify specific measures to prevent or mitigate any effects of the project during construction and operation activities.
What to Expect During Construction and Beyond

Crossings
We will employ industry-proven construction techniques for each of the planned crossings such as water courses, railways, roads and other pipelines. Disturbances due to water course crossings will be minimized where possible. Crossing techniques such as boring, horizontal directional drilling and open cuts will be designed to suit each crossing situation.

Equipment On Site
During construction, there will be heavy equipment on site for use in earth moving, excavation material handling/hauling, welding and testing. Temporary equipment on site may include graders, bulldozers, backhoes, bucket wheel trenchers, automatic welding equipment, portable cranes and sidebooms.
Permanent on site equipment will include: valves, pumps, tanks, meters and related piping, electric pumps, transformers, and associated enclosures required for pipeline operation located at pump stations.
This project does not involve oil or gas exploration and/or production; therefore, a derrick will not be required to be on site.

Traffic
Pipeline construction is essentially a moving assembly line; therefore, the traffic impact will vary during the project phases. During construction, for each affected township there will be an increase in traffic flow. The traffic will involve movement of equipment, materials and manpower. The majority of construction related activities will be completed during daylight hours. Once construction is completed, traffic will return to similar volumes of the pre-construction conditions. Potential intermittent increases in traffic in the vicinity of the pump stations may occur for occasional access to the pipeline corridor for ongoing operations and maintenance.
Dust is not expected to be significant; mitigation measures such as wetting of construction areas with fresh water will be undertaken as necessary.

Noise
Throughout project construction and operations, we will meet all applicable noise limits, including those outlined in AER Directive 38: Noise Control and minimize construction noise where possible.
Initially, construction equipment will temporarily contribute to the baseline sound levels in the area, while during the operation phase, pumps and other associated equipment will be the contributors to the baseline sound levels.

Air Emissions and Odours
The pipeline and associated pipeline installations are expected to produce minimal fugitive emissions and odours. We will work to ensure proper emissions management protocols are in place to help reduce any odours. Air emissions will meet the requirements of the Alberta Ambient Air Quality Objectives and Guidelines established by Alberta Environment and Sustainable Resource Development (ESRD).

Once construction is complete, we will employ a preventative maintenance program to ensure operating equipment and facilities are maintained to minimize emissions and odours. The associated pipeline installations will not include any continuous flaring, incinerating or venting as described under the AER Directive 60: Upstream Petroleum Industry Flaring, Incinerating, and Venting.

Setbacks and Land-Use Restrictions
The AER has established separation or “setback” distances between pipelines and facilities and residential or surface improvements as outlined in AER Directive 56: Energy Development Applications and Schedules. There are no setbacks or land-use restrictions associated with the proposed pipeline other than the pipeline right-of-way or the property boundaries associated with the proposed pump stations.
The pipeline and associated pipeline installations will have minimal hydrogen sulphide (H₂S) content and does not require additional setbacks under AER legislation.
Your local authority may impose additional restrictions and should be consulted with prior to any development in proximity to an energy improvement.

Clean-Up and Reclamation
Once construction has been completed, the land surface will be reclaimed to an equivalent land capability to the extent practical. Measures will be taken to prevent topsoil/surface material loss from wind and water erosion, and to establish a vegetative cover that is compatible with surrounding vegetation and land use.

Your Safety, Our Integrity
We are committed to designing, constructing and operating our facilities to ensure the safety of our employees and the public, and to minimize impacts to residents and the environment. Construction and operations will comply with all AER and ESRD safety and environmental guidelines and regulations.
We will develop an Emergency Response Plan as outlined in AER Directive 71: Emergency Preparedness and Response Requirements for the Petroleum Industry. This Plan will be activated in the unlikely event of an emergency. Our staff are trained to know what to do in the event of an emergency, both during construction and operations. We will collaborate with local authorities and emergency responders (fire, police, etc.) to ensure a coordinated response in the event of an incident.

In case of emergency, please call TransCanada’s 24 hour toll free emergency line at 1.888.982.7222.
Regulatory Materials

As part of the participant information process, we have provided stakeholders and Aboriginal communities with specific documents:

- A Letter from the Chief Executive Officer of the Alberta Energy Regulator
- AER Brochure “Understanding Oil and Gas Development in Alberta”
- AER EnerFAQ: Proposed Oil and Gas Development: A Landowner’s Guide
- AER EnerFAQ: The AER and You: Agreements, Commitments, and Conditions
- AER EnerFAQ: Expressing Your Concerns - How to File a Statement of Concern About an Energy Resource Project

Additional information pamphlets of general interest developed by the AER are also available. Should you wish to receive any of these pamphlets please contact us, or visit the AER EnerFAQs Link at: http://www.aer.ca/about-aer/enerfaqs.

- What is the AER?
- Having Your Say at an AER Hearing
- Inspections and Enforcement of Energy Developments in Alberta
- All About Critical Sour Wells
- Explaining AER Setbacks
- Flaring and Incineration
- All About Alternative Dispute Resolution (ADR)
- Oil Sands

Contact Us

We invite you to contact Heartland Pipeline GP Ltd. with any questions or comments you have with respect to this project:

**Paul Godley, Project Director**
Heartland Pipeline GP Ltd.
450 - 1st Street S.W.
Calgary, Alberta T2P 5H1
Toll Free Number: 1.855.920.1912
Email: heartland@transcanada.com

If you would like further information regarding the AER’s regulatory approval process, we would be pleased to provide you with information or you can contact them directly:

**Alberta Energy Regulator**
Suite 1000, 250 – 5th Street S.W.
Calgary, Alberta T2P 0R4
Toll Free Number: 1.855.297.8311
Email: inquiries@aer.ca
Website: www.aer.ca