The Canada Pipeline Project Work* report highlights various Canadian pipeline construction projects, recently completed, under construction, and future projects announced by pipeline transmission companies operating in Canada.

Mainline pipeline construction projects refer to cross country pipelines (large in diameter) to and from storage facilities. The report focuses on the oil and gas projects that range up to 48-in. diameter pipelines.

Maintenance and Service pipeline construction refers to the work done to maintain the integrity of various pipelines through various techniques such as repair, re-coating, non-destructive testing, and removal for the maintenance of pipelines.

Distribution pipeline construction projects refers to the various pipeline construction projects for the distribution of gas, oil, and products downstream from metering stations to stations or meters within the industrial, commercial and residential markets. These pipelines are typically 6 inches or lower in diameter.

CURRENT PIPELINE WORK

Did you know... Canada has an underground pipeline network over 840,000 km?

PROJECT NAME | SPECS | IN SRVC | START | FINISH | CLIENT
---|---|---|---|---|---
**Recently Completed:**
Burlington/Oakville Reinforcement ... 13 km – 20” .............. 2016 .......... Burlington, ON .......................... Oakville, ON .......................... Union Gas
Inland Looping Project .................... 19 km – 20” .............. 2016 .......... Lamont Stn, AB .......................... Norma Stn, AB .......................... Atco
Panhandle Replacement ..................... 41 km – 36” .............. 2016 .......... Lakeshore, ON .......................... Lakeshore, ON .......................... Union Gas
Sarnia Pipeline Expansion ............... 5 km – 20” .............. 2016 .......... Sarnia, ON .......................... Sarnia, ON .......................... Union Gas
Boulder Creek South Lateral .............. 20 km – 6” .............. 2017 .......... Valleyview, AB .......................... N.W., AB .......................... TransCanada
Boundary Lake Section ..................... 91 km – 36” .............. 2017 .......... Alces River Station, AB .......................... Owl Lake Station, AB .......................... NGTL
Christina River Section ..................... 20 km – 24” .............. 2017 .......... LKR Crossover, AB .......................... Graham Loop 2 Junction, AB .......................... NGTL
Kings North Connection ..................... 13 km – 36” .............. 2017 .......... Vaughan, ON .......................... Vaughan, ON .......................... TransCanada
Northern Courier ............................. 90 km – 12/24” .............. 2017 .......... Fort Hills Mine, AB .......................... Voyager Upgrader, AB .......................... TransCanada
Pelican Lake Section ......................... 56 km – 30” .............. 2017 .......... Fort McMurray, AB .......................... Wabasca, AB .......................... NGTL
Phase III Expansion Fox Creek ............. 270 km – 16/24” .............. 2017 .......... Fox Creek, AB .......................... Namao, AB .......................... Pembina
Phase III Expansion Wapiti ................. 70 km – 12” .............. 2017 .......... Wapiti, AB .......................... Kakwa, AB .......................... Pembina
Simonneau Lateral Loop ...................... 22 km – 24” .............. 2017 .......... Grande Prairie, AB .......................... Grande Prairie, AB .......................... NGTL
Wood Buffalo Extension ..................... 137 km – 36” .............. 2017 .......... Cheecham, AB .......................... Kirby Lake, AB .......................... Enbridge

**In Progress:**
Fortis Coastal Transmission System .... 11.6 km – 36/42” .............. 2017 .......... Surrey, BC .......................... Coquitlam, BC .......................... FortisBC
GP ML Loop McLeod Section ............. 36 km – 48” .............. 2017 .......... Edson, AB .......................... Edson, AB .......................... NGTL
NEBC Expansion ............................... 160 km – 12” .............. 2017 .......... Taylor, BC .......................... Blair, BC .......................... Pembina
Grand Rapids Pipeline ...................... 500 km – 20/36” .............. 2018 .......... Fort McMurray, AB .......................... Edmonton, AB .......................... TransCanada
### MAINLINE PIPELINE PROJECTS

#### OVER 200 KM

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>SPECS</th>
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<th>START</th>
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<td>Edmonton, AB</td>
<td>Calgary, AB</td>
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<td>Eastern Mainline</td>
<td>250 km – 36”</td>
<td>2019</td>
<td>Markham, ON</td>
<td>Iroquois, ON</td>
<td>TransCanada</td>
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<tr>
<td>Enhance Co2</td>
<td>240 km – 16”</td>
<td>2019</td>
<td>Red Water, AB</td>
<td>Clive, AB</td>
<td>Enhance Energy</td>
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<tr>
<td>Heartland Pipeline Project</td>
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<td>2019</td>
<td>Ft. Saskatchewan, AB</td>
<td>Hardisty, AB</td>
<td>TransCanada</td>
</tr>
<tr>
<td>Keystone XL</td>
<td>529 km – 36”</td>
<td>2019</td>
<td>Hardisty, AB</td>
<td>Monchy, SK</td>
<td>TransCanada</td>
</tr>
<tr>
<td>L3R Project</td>
<td>1,000 km – 36”</td>
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<td>Hardisty, AB</td>
<td>Gretna, MN</td>
<td>Enbridge</td>
</tr>
<tr>
<td>North Montney Project</td>
<td>305 km – 42”</td>
<td>2019</td>
<td>North East, BC</td>
<td>North East, BC</td>
<td>TransCanada</td>
</tr>
<tr>
<td>TMX Expansion</td>
<td>987 km – 36”</td>
<td>2019</td>
<td>Edmonton, AB</td>
<td>Vancouver, BC</td>
<td>Kinder Morgan</td>
</tr>
<tr>
<td>Merrick Mainline</td>
<td>268 km – 48”</td>
<td>2020</td>
<td>Dawson Creek, BC</td>
<td>Summit Lake, BC</td>
<td>TransCanada</td>
</tr>
<tr>
<td>Energy East</td>
<td>1,427 km – 42”</td>
<td>2021</td>
<td>Hardisty, AB</td>
<td>Saint John, NB</td>
<td>TransCanada</td>
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<td>Energy East Conversion</td>
<td>3,002 km</td>
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#### UNDER 200 KM

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<tr>
<th>PROJECT NAME</th>
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<th>IN SRVC</th>
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<tr>
<td>Dimsdale Pipeline</td>
<td>45 km – 30”</td>
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<td>Grande Prairie, AB</td>
<td>Grande Prairie, AB</td>
<td>Tide Water Midstream</td>
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<tr>
<td>Groundbirch Mainline Loop</td>
<td>55 km – 36”</td>
<td>2017</td>
<td>Dawson Creek Region, BC</td>
<td></td>
<td>NGTL</td>
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<td>North Pine Product Pipelines</td>
<td>40 km – 8”</td>
<td>2017</td>
<td>Fort St. John, BC</td>
<td>Fort St. John, BC</td>
<td>AltaGas</td>
</tr>
<tr>
<td>Pembina Expansion Project</td>
<td>20 km – 24”</td>
<td>2017</td>
<td>Logepole, AB</td>
<td>Drayton Valley, AB</td>
<td>NGTL</td>
</tr>
<tr>
<td>Tower Lake Section</td>
<td>32 km – 30”</td>
<td>2017</td>
<td>Dawson Creek Region, BC</td>
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<td>NGTL</td>
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<tr>
<td>LLB Direct</td>
<td>198 km – 8/20”</td>
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<td>Elk Point, AB</td>
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<td>Phase V Expansion Project</td>
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<td>Latour, AB</td>
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<tr>
<td>White Spruce</td>
<td>71.3 km – 20”</td>
<td>2018</td>
<td>Fort MacKay, AB</td>
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<tr>
<td>Wynwood Pipeline Expansion</td>
<td>27 km – 36”</td>
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<td>Hasler Flats Region, BC</td>
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<td>Spectra</td>
</tr>
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<td>Sundre Crossover</td>
<td>20 km – 42”</td>
<td>2018</td>
<td>S.W. Alberta</td>
<td>S.W. Alberta</td>
<td>NGTL</td>
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<tr>
<td>Gordondale Lateral Loop</td>
<td>25 km – 36”</td>
<td>2019</td>
<td>Dawson Creek Region, BC</td>
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</tr>
<tr>
<td>Smokey River Lateral Loop</td>
<td>10 km – 20”</td>
<td>2019</td>
<td>S.W. Alberta</td>
<td>S.W. Alberta</td>
<td>NGTL</td>
</tr>
</tbody>
</table>

**Did you know...**

Canada’s underground transmission pipelines total 117,000 km to transmit oil and gas across the country?
Canada currently has the third largest oil reserve in the world, but our development and economic prosperity has always been based on the careful, sustainable and safe extraction of our natural resources. At the same time, global demand for energy is growing at a rapid pace — especially with emerging and developing economies such as China and India, where the standard of living is improving.

In the latest forecast by the International Energy Agency (which published its 2016 World Energy Outlook in November 2016), there is a prediction that global energy consumption will rise 31 per cent by 2040. This increase includes a 12 per cent rise in oil consumption and allows for 49 per cent growth in natural gas.

Canada has traditionally been a primary supplier to the U.S. market and to that end Prime Minister Justin Trudeau stated “Nothing is more essential to the U.S. economy than access to a secure, reliable source of energy. Canada is that source,” during his March 9th, 2017 visit to the White House.

Now, it is even more important for Canada to ensure our natural gas and oil reserves are able to access the rest of the world market. To do this, it is essential for Canada to build new pipelines, Liquid Natural Gas (LNG) terminals and marine transport facilities.

The upcoming major projects would add significant additional capacity:

- TransCanada Energy East would add 1,100,000 b/d capacity
- Enbridge Line 3 Replacement would add 370,000 b/d capacity
- Trans Mountain Expansion Project would add 590,000 b/d capacity
- TransCanada Keystone XL would add 830,000 b/d capacity

If these projects proceed as expected, they will help to ensure Canada’s prosperity and economic growth, with job creation and economic benefits expected to be significant from coast to coast. The forecasted government revenues per project are in the billions of dollars per year.

The Government of Canada has taken steps to move the pipeline agenda forward by approving two lines — Enbridge’s Line 3 rebuild and Kinder Morgan’s Trans Mountain’s expansion. Coupled with this, on March 7, 2017 there was a welcome announcement from U.S. President Donald Trump who had signed a permit to move ahead with the Keystone XL pipeline — a project that TransCanada has been working on for nearly 10 years.

Also from Washington, D.C., Prime Minster Justin Trudeau highlighted that his government is proud of the progress they have achieved, which has balanced the need for economic growth and environmental sustainability. “Let me be very clear,” he said. “We could not have moved on pipelines had we not acted on climate.”

Our Canadian pipeline contractors and suppliers are the most experienced in the pipeline industry and are ready to continue to build the safest and most reliable energy infrastructure for Canada. It is Canada’s opportunity to grow and succeed and to meet the demands of the global energy market into 2040 and beyond.

Sources: Toronto Sun, CAPP
TransCanada was selected by Progress Energy Canada Ltd. (Progress) to design, build, own and operate the proposed Prince Rupert Gas Transmission (PRGT) project. The PRGT includes the construction and operation of a pipeline, approximately 900 km in length. This pipeline will safely transport natural gas from a point near the District of Hudson's Hope to the proposed Pacific North West liquefied natural gas (LNG) facility on Lelu Island (within the District of Port Edward, BC). Once this project is operational, the project is anticipated to generate over $25 million in property taxes annually.

This project is located entirely in the province of British Columbia and in addition to the pipeline construction and operation, it includes three compressor stations and a metering station. The pipeline will include 780 km of 48-in. diameter pipe and two 120 km sections of two twin 26-in. diameter marine-based pipelines. The entry point for the pipeline is expected to be located in the Nasago Gulf and will deliver natural gas to the Pacific NorthWest LNG facility through a meter station located on the southeast corner of Lelu Island, which was designed to avoid the Flora Bank area.

For the project to proceed, approval of related legislation by the Government of British Columbia was needed. This was granted on July 22, 2015. In addition, receipt of an environmental assessment certificate by the Canadian Environmental Assessment Agency is pending.

In addition, the environmental assessment certificate by the Canadian Environmental Assessment Agency has been awarded. The next step includes a confirmation of the investment decision prior to the PRGT to undertake site preparations for camp locations and other related sites shortly thereafter, followed by pipeline construction activities. The expected time frame for the pipeline operations to commence is late 2019 or early 2020.
LIQUID NATURAL GAS (LNG) PROJECTS AND FACILITIES

Proposed LNG Pipeline Projects

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>SPECS</th>
<th>IN SRVC</th>
<th>START</th>
<th>FINISH</th>
<th>CLIENT</th>
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<tr>
<td>Eagle Mountain – Wood Fibre</td>
<td>52 km – 24”</td>
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<td>Vancouver, BC</td>
<td>Squamish, BC</td>
<td>Fortis BC</td>
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<td>Prince Rupert Gas Transmission</td>
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<td>Prince Rupert, BC</td>
<td>TransCanada</td>
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Proposed LNG Facilities

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<td>2020</td>
<td>Squamish, BC</td>
<td>Pacific Oil &amp; Gas Limited</td>
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<td>Pacific NorthWest LNG</td>
<td>2021</td>
<td>Lelu Island, Prince Rupert, BC</td>
<td>Petronas and JV Partners</td>
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<td>WCC LNG</td>
<td>2023</td>
<td>Grassy Point Prince Rupert, BC</td>
<td>Exxon Mobil and Imperial Oil Corp.</td>
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<td>Bear Head LNG</td>
<td>TBD</td>
<td>Port Hawsbury, NS</td>
<td>LNGL</td>
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DISTRIBUTION

Did you know... Distribution underground pipelines stretch 450,000 km transporting natural gas to customers across Canada?

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>SPECS</th>
<th>IN SRVC</th>
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<td>Meter Moves</td>
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<td>Edmonton, AB</td>
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<td>Steel Mains Replacement</td>
<td>Various – 0.5/6”</td>
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<td>Calgary, AB</td>
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<td>Atco Gas</td>
</tr>
<tr>
<td>Urban Replacement</td>
<td>18.3 km – 12/24”</td>
<td>2017</td>
<td>Calgary, AB</td>
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<td>Valve Replacement</td>
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<td>Edmonton, AB</td>
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<td>18.5 km – 20”</td>
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<td>Union Gas</td>
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<td>15 km – 12/16”</td>
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<td>ON</td>
<td>Union Gas</td>
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<td>ON</td>
<td>Enbridge Gas</td>
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CANADA NEEDS MORE PIPELINES TO MOVE GROWING OIL SUPPLY

Canadian Oil Supply is Growing

Just at a slower pace than previously forecasted. This reality, combined with the fact that the International Energy Agency reports a quarter of the total world energy demand will still be met by oil in 2040, means Canada needs more pipelines in all directions to supply growing global needs as well as domestic markets. Less than one per cent of Canada’s oil is shipped overseas. So the case for additional pipelines remains urgent to move Canadian oil to Canadians and to the world.

MAINTENANCE AND SERVICE WORK

Did you know...
Over 250,000 km of underground gathering pipelines transport oil and gases to processing facilities?

PROJECT NAME          APPROX DIGS | IN SRVC | START | FINISH | CLIENT
Integrity and Maintenance Dig Program ....... 400 digs ............... TBD ......................................................... Enbridge
Integrity and Maintenance Dig Program ....... 75 digs ............... TBD ......................................................... Union Gas
Integrity and Maintenance Dig Program ....... 400 digs – 600 digs .... TBD ......................................................... TransCanada
Integrity and Maintenance Dig Program ....... 300 – 500 digs ........ TBD ......................................................... Pembina
Integrity and Maintenance Dig Program ....... 400 – 600 digs ........ TBD ......................................................... Plains Midstream Canada
Class Upgrades ........................................ Various ............... TBD ......................................................... Union Gas
General Maintenance Program – Western Canada .................................. Various ............... 2020 ............... MB ........................................ Imperial Oil

INCREMENT OIL SUPPLY

TOTAL CANADIAN OIL SUPPLY MAY GROW AT A SLOWER PACE BUT CANADA WILL STILL NEED NEW PIPELINES TO MOVE OIL TO CANADIANS AND GLOBAL CUSTOMERS – AND THAT BENEFITS ALL CANADIANS.

INCREASED OIL SUPPLY 2015 - 2030

CANADA'S RESOURCES, CANADA'S BENEFITS.

Canada's resources are vast, but Canadians will only benefit if they can reach tidewater and domestic markets. Without better access to tidewater and domestic markets, Canada receives fewer economic benefits from development of its oil and natural gas. The Canadian Energy Research Institute estimates the Western Canadian Oil Industry could contribute $1.5 trillion in provincial and federal taxes, and provincial royalties over the next 20 years. It’s this economic contribution governments use to help pay for things that Canadians value and need such as health care, education and public infrastructure, including schools, roads and hospitals.

Canada’S RESOURCES. CANADA’S BENEFITS.

Despite having and making more than enough oil to meet all of Canada’s own needs, we spent $17 billion last year importing oil from places such as the United States, Saudi Arabia, Algeria, Angola and Nigeria. Many of these countries have less stringent environmental standards than Canada’s, and that’s not ideal from a global environmental perspective. It doesn’t have to be this way. If we had new pipelines to transport Western Canadian oil to Ontario, Quebec and the Maritimes, who currently rely on imports to meet their needs, we would have the opportunity to reduce Canada’s dependence on foreign oil while keeping the money spent on imports in Canada, where it can help create jobs and grow the economy.

Canada needs pipelines.

Canada needs pipelines to move growing global needs as well as domestic markets. Less than one per cent of Canada’s oil is shipped overseas. So the case for additional pipelines remains urgent to move Canadian oil to Canadians and to the world.

Canada Needs Pipelines

Exiting pipeline capacity

After 2021 Canada’s pipelines are forecast to be full. New transportation by pipeline, truck or rail will be needed.

Canada Needs Pipelines

$17 BILLION IMPORTED OIL

OIL PRODUCTION FORECAST

850,000 NEW BARRELS PER DAY

OF OIL SANDS IS FORECAST TO BE ADDED TO THE SUPPLY MIX

CANADA NEEDS MORE PIPELINES TO MOVE GROWING OIL SUPPLY

CANADA NEEDS PIPELINES

$55,000,000,000 NEW BARRELS PER DAY OF OIL SANDS IS FORECAST TO BE ADDED TO THE SUPPLY MIX

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Integrity and Maintenance Dig Program ....... 400 digs ............... TBD ......................................................... Enbridge
Integrity and Maintenance Dig Program ....... 75 digs ............... TBD ......................................................... Union Gas
Integrity and Maintenance Dig Program ....... 400 digs – 600 digs .... TBD ......................................................... TransCanada
Integrity and Maintenance Dig Program ....... 300 – 500 digs ........ TBD ......................................................... Pembina
Integrity and Maintenance Dig Program ....... 400 – 600 digs ........ TBD ......................................................... Plains Midstream Canada
Class Upgrades ........................................ Various ............... TBD ......................................................... Union Gas
General Maintenance Program – Western Canada .................................. Various ............... 2020 ............... MB ........................................ Imperial Oil

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Did you know...
Over 250,000 km of underground gathering pipelines transport oil and gases to processing facilities?

PROJECT NAME          APPROX DIGS | IN SRVC | START | FINISH | CLIENT
Integrity and Maintenance Dig Program ....... 400 digs ............... TBD ......................................................... Enbridge
Integrity and Maintenance Dig Program ....... 75 digs ............... TBD ......................................................... Union Gas
Integrity and Maintenance Dig Program ....... 400 digs – 600 digs .... TBD ......................................................... TransCanada
Integrity and Maintenance Dig Program ....... 300 – 500 digs ........ TBD ......................................................... Pembina
Integrity and Maintenance Dig Program ....... 400 – 600 digs ........ TBD ......................................................... Plains Midstream Canada
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NEB MODERNIZATION

The National Energy Board (NEB) is a federal regulator for energy in Canada. Its jurisdiction includes international and interprovincial pipelines.

In November 2016, The Honourable Jim Carr, minister of natural resources, announced the creation of a five-member expert panel (the panel) with the mandate to provide recommendations to the Government, regarding modernization of the NEB. This process is intended to help shape the future of energy regulation in Canada and improve the environmental assessment and regulatory review of major resource projects.

The panel recently concluded a targeted review of the NEB structure, role and mandate under the National Energy Board Act. This review was regarded as a key element of the Government of Canada’s review of environmental and regulatory processes.

The views of all interested Canadians were welcome throughout the NEB modernization review. As such, prior to March 31, 2017, the panel invited comment from Indigenous Peoples, interested stakeholders, and provinces and territories — as well as the general public.

THE EXPERT PANEL

The members of the NEB Modernization Expert Panel are: David Besner, Wendy Grant-John, Brenda Kenny, Hélène Lauzon and Gary Merasty. The panel was guided by terms of reference, which set out its mandate for the review, based on feedback received during the 30-day public comment period.

The panel visited the following locations as part of its engagement activities:

- Saskatoon, SK
- Vancouver, BC
- Ottawa, ON
- Edmonton, AB
- Saint John, NB
- Toronto, ON
- Winnipeg, MN
- Fort St. John, BC
- Iqaluit, NU
- Montreal, QC

Three types of sessions were open to the public on the first day in each city: presentations, dialogue sessions and open houses. On the second day in each location, the panel met with Indigenous Peoples to discuss the needs and interests of their communities.

Following each engagement session, they posted summaries of what they heard. The panel will submit its report and recommendations to the minister of natural resources in mid-May 2017. The report will be made public.

Acknowledgements:

Page 4: Canada’s Opportunity courtesy: Toronto Sun, Canadian Association of Petroleum (CAPP)
Page 7: Canada Needs More Pipeline to Move Growing Oil Supply courtesy: CAPP

*NOTE: The information disclosed in this document is an estimate and not a guarantee of future pipeline project work in Canada. It is intended for general informational purposes only and may be subject to change. It is not intended for circulation or distribution. The Pipe Line Contractors Association of Canada accepts no responsibility for the accuracy of this information. This information should not be relied upon for business decisions without careful review and verification.