



YELLOWHEAD
PIPELINE



Fueling Alberta Today and Tomorrow



A PROJECT BY

ATCO

Energy Systems



For over a century, ATCO has been a reliable provider in Alberta, delivering safe, dependable, and affordable energy to industries, homes and businesses throughout the province.



Building on a Century of Energy Leadership

Our story began in 1911 when the Canadian Western Natural Gas, Light, Heat and Power Company started bringing natural gas from Bow Island and Turner Valley to southern Alberta communities.

While natural gas might seem like a basic service today, back then it was revolutionary for the communities we served.

Since those early days, ATCO's natural gas and electricity systems have been the foundation of Alberta's growth and success. We've brought heat and light to homes and businesses for the first time, not just in Alberta, but across the North in remote communities.

Along the way, we've built strong relationships with many Indigenous communities, countless industry and municipal partners, and millions of people around the world.



Expanding Alberta's Energy Capacity

In May 2024, ATCO Energy Systems announced the Yellowhead Pipeline — our most significant energy infrastructure project in company history.

This critical initiative represents more than just a pipeline; it's about creating economic opportunities, enabling investment, and supporting sustainable growth across Alberta.

PROJECT SPECS

The Basics

HOW LONG

~230 kilometers (about the distance from Calgary to Lethbridge)

WHERE IT GOES

From Peers, Alberta to Fort Saskatchewan

PIPELINE SIZE

36-inch diameter high-pressure underground pipeline

HOW MUCH GAS

Over 1.1 billion cubic feet of natural gas every day

ENERGY EQUIVALENT

Enough natural gas to generate Alberta's electricity needs for a full day

WHEN IT'S READY

Late 2027



Infrastructure Components

Beyond the main pipeline, the Yellowhead Pipeline project includes:

Compression station to maintain pressure and flow

Valve sites for operational control and safety





Metering stations
to measure
gas flow

Connection points to
Alberta's existing highly
integrated natural gas
transmission network



All infrastructure is designed to meet or exceed the latest safety and environmental standards, with multiple layers of monitoring and protection systems in place.





Project Benefits





CONSTRUCTION JOBS

Expected to create around 2,000 direct jobs

LOCAL BOOST

Provide economic opportunities to communities along the route

MARKET ACCESS

Give long-term and reliable market access to Western Canada's natural gas producers

TOTAL INVESTMENT

Expected to enable more than \$20 billion of investment in Alberta

ECONOMIC STIMULUS

Generate upstream royalties, tax revenues, and employment for sustained economic growth.





Three Key Drivers



Expanding System Capacity

The Alberta Integrated System—our province's existing natural gas transmission network—requires increased capacity to meet growing demand.

The Yellowhead Pipeline will significantly boost the system's capacity, ensuring natural gas can flow efficiently from producers in the Western Canadian Sedimentary Basin to customers across Alberta, especially in the Greater Edmonton Area.

As part of the broader network, this new pipeline creates an additional flow path that strengthens the provincial natural gas system.



Meeting Forecast Demand

Alberta's natural gas demand is increasing due to population growth, industrial development, and power generation needs.

The Alberta Integrated System is expected to handle an additional 1,350 terajoules per day of demand by 2030, of which 90% has already been contracted.

Without this expansion, Alberta would face constraints in natural gas availability, limiting economic growth and access to affordable energy for businesses and households.

Supporting Economic Development

Alberta's abundant natural gas resources offer significant opportunities for creating value-added products like petrochemicals and hydrogen.

The Yellowhead Pipeline project will support these industries by providing safe, reliable, and cost-effective natural gas transportation services, helping to drive the province's economic growth.



Safety and Reliability

Building on ATCO's proud tradition, the Yellowhead Pipeline project prioritizes safety and reliability in all aspects of design and operation.





Our Safety Commitment

- » All infrastructure is designed to meet or exceed the latest safety and environmental standards
- » Multiple layers of monitoring and protection systems will be in place
- » The project will deliver a safe and reliable supply of natural gas to Alberta's growing population and industrial base
- » The pipeline will reinforce Alberta's natural gas network, enhancing overall system reliability



The Yellowhead Pipeline will connect natural gas supply to key domestic markets and expand the province's natural gas network to ensure a reliable energy supply for decades to come.





Industrial Development and Economic Diversification



Catalyzing Growth Across Sectors

The Yellowhead Pipeline will deliver the natural gas needed to support diverse industries:

- » **Energy Projects:** Enable initiatives that utilize natural gas with carbon capture technology
- » **Petrochemical Expansion:** Provide essential raw materials for Alberta's growing petrochemical sector
- » **Building Materials & Manufacturing:** Support production with reliable and efficient natural gas
- » **Hydrogen Development:** Facilitate the creation of lower-emission hydrogen products



Economic Impact

CONSTRUCTION PHASE (2026-2030):

- » Average of 12,000 jobs supported annually
- » \$1.6 billion annual contribution to Alberta's economy

OPERATIONAL PHASE (FROM 2028):

- » Approximately 23,700 jobs supported
- » \$3.9 billion annual contribution to Alberta's GDP

Unlocking Industrial Potential

In August 2023, BuildForce Canada's study *Diversifying Alberta's Energy Economy* highlighted the substantial economic benefits of proposed refining and petrochemical projects in Alberta. The Resource Diversification Council, representing industry, post-secondary, and labour leaders, provided input from major companies including Dow Canada, Inter Pipeline, Keyera, Nova Chemicals, Nutrien, and Pembina Pipeline.

The Yellowhead Pipeline is a crucial infrastructure component to unlock this economic potential.



Supporting Emissions Reduction Goals

The Yellowhead Pipeline project plays a vital role in supporting Alberta's emission reduction goals and fostering lower-carbon economic growth.

Enabling Cleaner Industrial Processes

According to Alberta's Emissions Reduction and Energy Development Plan, natural gas will play a vital role in emissions reductions across multiple sectors:

- » Oilsands
- » Power Generation
- » Industrial Heat
- » Hydrogen and Ammonia Production
- » Petrochemical Manufacturing

These sectors account for over half of Alberta's natural gas demand and continue growing as decarbonization efforts advance.





Supporting Lower-Emissions Technology

The Yellowhead Pipeline will provide essential natural gas to support innovative low-carbon technologies.

By enhancing natural gas delivery capacity, the Yellowhead Pipeline project supports initiatives like these, contributing to Alberta's emissions reduction goals while fostering economic growth.





Aligning with Alberta's Natural Gas Vision and Strategy

The Yellowhead Pipeline project fits perfectly with Alberta's Natural Gas Vision and Strategy, a comprehensive plan released by the Government of Alberta in 2020.

This strategy positions the province as a global leader in responsibly sourced natural gas and related products like hydrogen, petrochemicals, and recycled plastics.





Strategic Alignment



BOOSTING INVESTMENT:

The strategy calls for increased investment in Alberta's midstream natural gas infrastructure—critical for enhancing industrial performance and driving provincial growth.

INDUSTRIAL CONSUMPTION:

The strategy highlights opportunities to increase industrial natural gas use within Alberta, establishing sustainable markets and delivering long-term provincial benefits.



The Yellowhead Pipeline project actively unlocks Alberta's abundant natural gas resources, directly supporting these strategic goals. It supports the creation of value-added products and ensures Alberta's natural gas can meet growing demand that the current Alberta Integrated System cannot fully accommodate.





A Stronger Alberta

The Yellowhead Pipeline strengthens our province's infrastructure, creates economic opportunities, and supports Alberta's long-term energy and environmental sustainability goals.





Alberta recognizes that a healthy and competitive natural gas sector is vital to jobs and prosperity for all Albertans. The Yellowhead Pipeline project will not only support local economic growth but also help meet the growing global demand for reliable and responsible energy.

By expanding delivery capacity, this project aligns with Alberta's vision for industrial development and population growth while ensuring a stable natural gas supply from western production areas to central consumption regions.





Contact Information



EMAIL

yellowheadproject@atco.com

WEBSITE

atco.com/yellowhead





Acknowledgment

In the spirit of reconciliation, we acknowledge the traditional territories and homelands on which many of our ATCO operations and facilities are located. We honour and respect the diverse history, languages, ceremonies, and culture of the Indigenous Peoples who call these areas home.





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