



# Yellowhead Pipeline Project

CGA Energy Nexus & Annual  
Technical Conference 2025

A PROJECT BY **ATCO** Energy Systems

# Agenda

01

**Yellowhead Basics**

02

**Our Approach to  
Engagement**

03

**Questions**



# Yellowhead Basics

## PURPOSE

- Expand Alberta transmission system to accommodate a growing demand for natural gas

## NEW FLOW PATH

- Provides a new and more direct flow path into the Edmonton/Heartland region.
- Frees up system capacity elsewhere, net benefit to system of nearly 1.3 Bcf/day

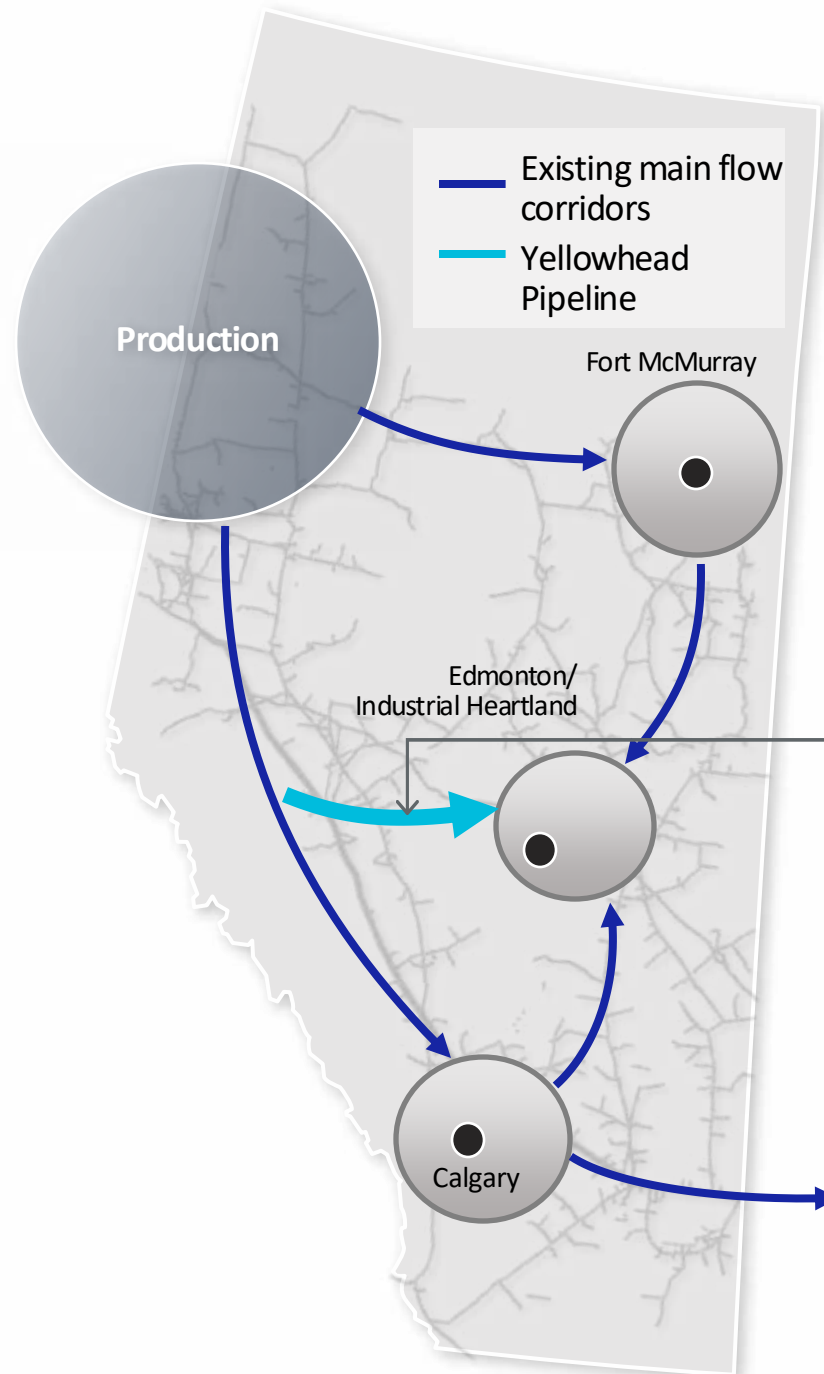
**ROUGHLY EQUIVALENT TO ALBERTA'S  
ELECTRIC GRID PEAK CAPACITY OF 12 GW**

**~25%**

increase to ATCO's  
gas transmission  
system capacity

**~10%**

increase to  
Alberta gas  
system capacity



### **YELLOWHEAD PIPELINE**

**~235 km**

36" pipeline with  
compression

**Up to 1.1 Bcf/day**  
peak delivery

A PROJECT BY

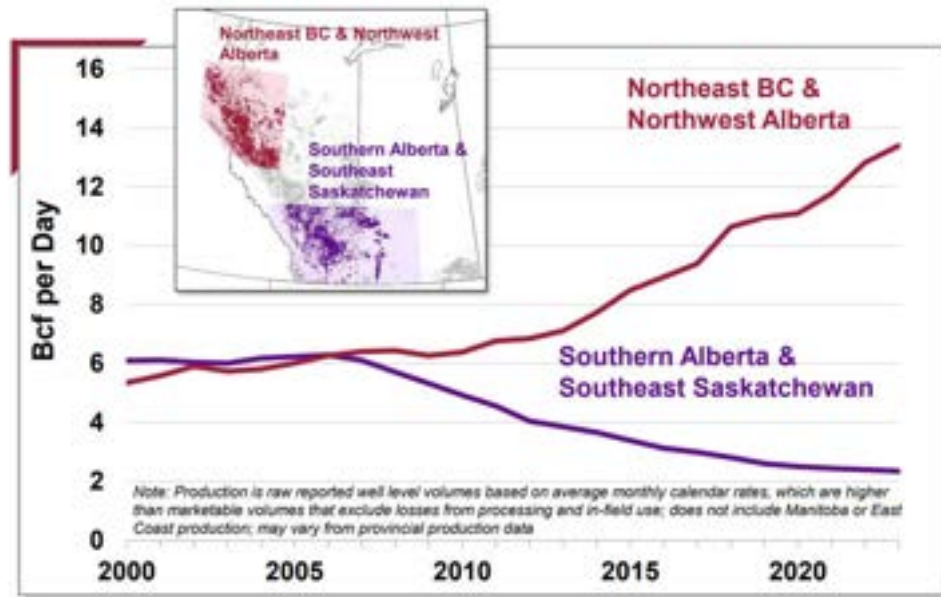
**ATCO** Energy Systems

## 2000 - 2009

- Natural gas production is widespread across Alberta
- Production levels are stable, with many regions contributing

## 2010 - 2023

- Shale gas discoveries in Northeast BC and Northwest Alberta lead to a surge in production – from ~6 Bcf/day to ~14 Bcf/day
- Traditional areas decline from ~6 Bcf/day to ~2 Bcf/day as they cannot compete



## Changes in Alberta System Delivery Capacity

- Approaching Capacity
- Fully Contracted

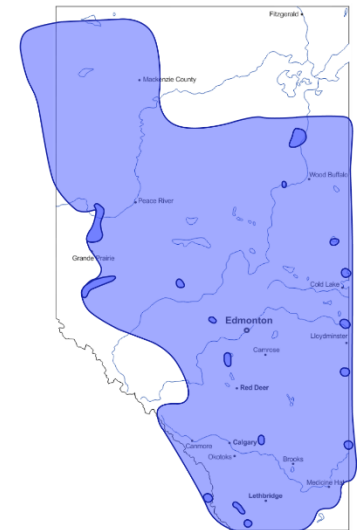
2011

Some segments are **100%** contracted, while much of the province has available capacity.



2024

The system is near or at full delivery capacity, with most areas fully contracted.

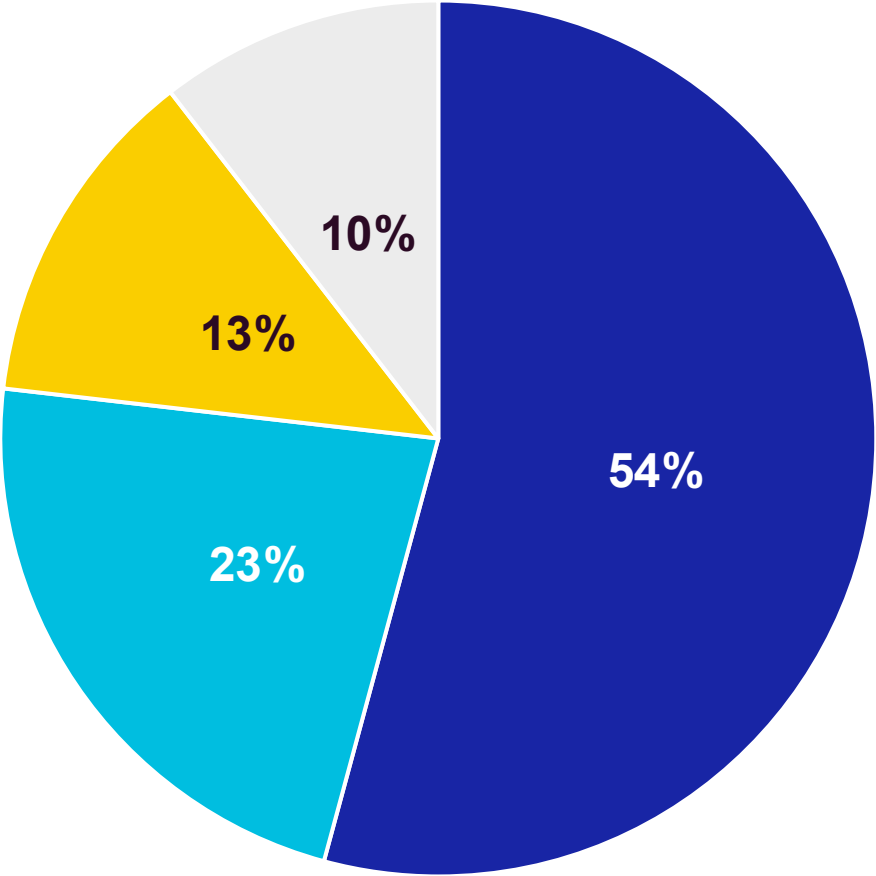


The shift in production and increasing demand leads to a constrained Alberta system, even as pipeline capacity has been added throughout



# Yellowhead Capacity

(1.1 Bcf or 1,260 TJ's/day)



■ Industrial   ■ Distribution   ■ Export   ■ Growth



# Economic Benefits

## ATCO YELLOWHEAD PIPELINE PROJECT

**\$2.8 Billion**

capital investment

**2,000**

jobs during construction

**\$75M+**

local community impact

## ADDITIONAL DOWNSTREAM INVESTMENT 2023-2030

**\$9-22 Billion**

capital investment

**12,000**

jobs during construction

**23,700**

full-time jobs

## GROSS VALUE ADDED TO THE ALBERTA ECONOMY (ANNUAL)

**\$1.6 Billion**

during construction

**\$3.9 Billion**

once operational



- ✓ Alberta's Natural Gas Vision and Strategy in Action
- ✓ ATCO's commitment to growth within Alberta and investing in customer needs for safe, reliable, cost-effective energy delivery



# Project Details

## SCOPE



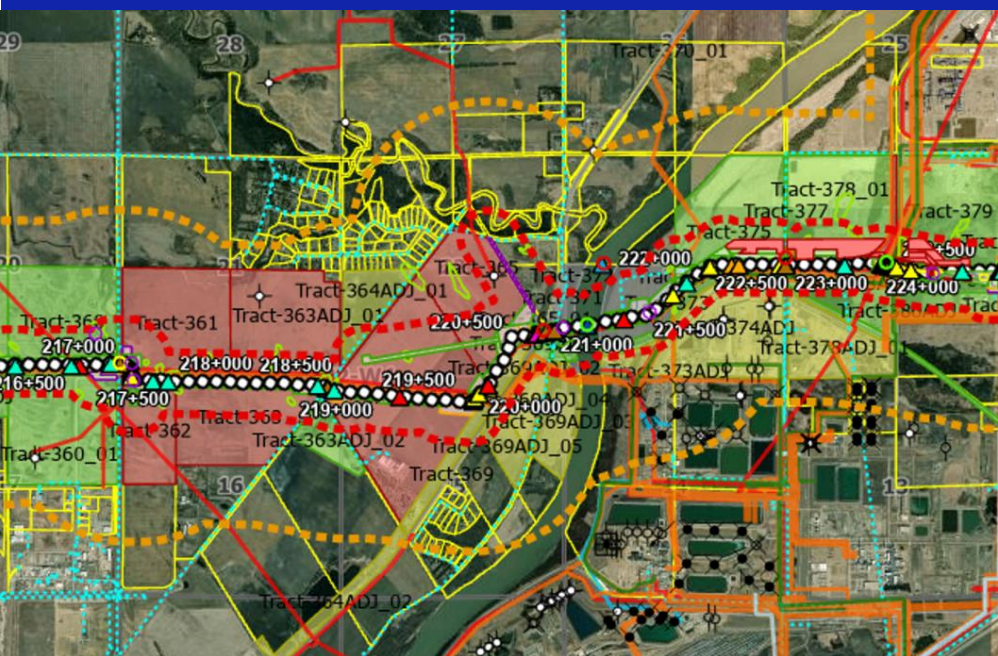
- **235 km of NPS 36** high-pressure natural gas pipeline
- **16.4 MW** compressor station
- **9** block valves
- **1** control station

## TIMELINE



- **Aug 2025** Need approved by AUC
- **Oct 2025** Application for permit to construct
- **Q3 2026** Construction start
- **Q4 2027** In-service
- **2028** Compliance

## SPECIFICS



### Crossings

- **34** watercourses
- **444** wetlands
- **21** highways
- **167** other roads
- **389** pipelines
- **170** other buried utilities
- **122** powerlines
- **7** railways

**Total: 1,350+**

### Right-of-way and working space

- **9,250** hectares

### Investigations

- **22** survey types (topo, geo, rare plants, species at risk, etc.)
- **2,800** unique locations
- **117** boreholes
- **19** historical sites

### Trenchless crossings

- **18** horizontal directional drills
- **190** others





# Our Approach to Engagement



# Our Community



## Land holders

## Indigenous peoples

## Public



**Minimum requirements**

**1,000**  
directly affected and adjacent

**11**  
Indigenous communities

**7**  
municipalities



**Consultation +**

**2,200**  
directly affected and adjacent

**22**  
Indigenous communities

**9**  
municipalities

# Consultation +



## Phase 1

### Principles:

Do more than the minimum  
Generate awareness  
Listening & testing

### Objectives:

**Establish relationships and a presence**  
Fostering goodwill  
Testing assumptions & correcting

## Phase 2

### Principles:

Relationship building  
Discernment & action

### Objectives:

**Relationship building**  
Legacy framing  
Managing expectations  
Testing assumptions & correcting

## Phase 3

### Principles:

Community building  
Action & evaluation

### Objectives:

**Legacy formalization**  
Troubleshooting  
Crisis management  
Informing & updating

Minimum requirements

Consultation +

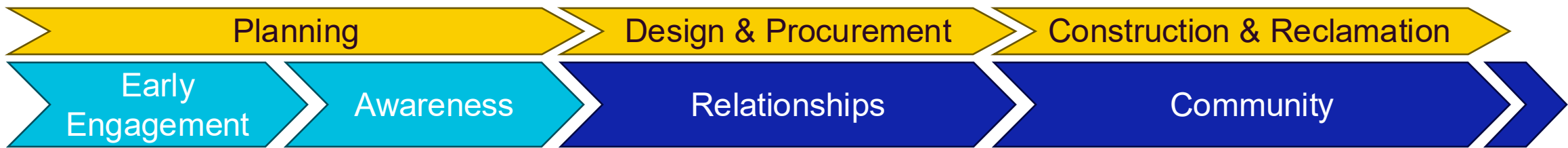
OCT 2025

SEP 2026

NOV 2027



# Consultation +



Phase 1

Phase 2

Phase 3

Land holders  
& Public



Indigenous  
peoples



Minimum requirements

Consultation +

OCT 2025

SEP 2026

NOV 2027

# Phase 1: Land holder & Public



- Early engagement with **~1,200** land holders on **all route options**
- **One-on-one consultation** with **~1,000** land holders on **preferred route**
- 16 open houses with **~600 attendees**
- Attendance at community events to establish a presence



# Phase 1 and 2: Indigenous peoples



**22**

Indigenous communities

**≈ 200**

Site visits completed

## Yellowhead is focused on opportunities in three key areas:

### EMPLOYMENT & TRAINING

#### Inspector Training Program

- Classroom and in-field experience
- Work towards API 1169 certification
- Meaningful work, transferrable skills

#### Construction Monitoring & Community Liaison Program

- Vital link between the project and Indigenous communities
- Monitoring, reporting, and providing feedback from communities

### SUB-CONTRACTING OPPORTUNITIES

#### Competitive procurement:

- Clearing, fencing, access, earthwork, matting, hydrovac, survey, etc.
- Minimum spend and employment targets
- Minimum employment targets
- Standardized reporting

### ECONOMIC PARTICIPATION

Exploring partnerships and equity sharing opportunities



# Next Steps

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## PROJECT STATUS AND OUTLOOK

- AUC need approval obtained, validating the necessity of the project
  - Filing of AUC facility application is imminent, supports Fall 2026 construction start
  - Advancement of engineering, procurement, contracting, etc.
- 



## CONSULTATION +

- This is a journey, the legacy is still somewhat fuzzy, and that's ok!
- Our communities expect information, transparency and deserve more than the minimum!
- Listen!



The **Yellowhead Pipeline** is a significant investment in our energy infrastructure and economic prosperity and can set the blueprint for future energy projects

ATCO is confident in the planning and execution and **commits to getting it done right**

We have major milestones achieved and **positive momentum towards construction and completion**



# Thank you!