



LNG Projects of Interest & Global Demand

Shane Getson: MLA & Parliamentary Secretary for Economic Corridor Development



Alberta's Potential

Alberta's Energy Balance Sheet and Contribution to Canada

\$14 Trillion +

est value of Alberta's
167B barrels of crude oil
reserve

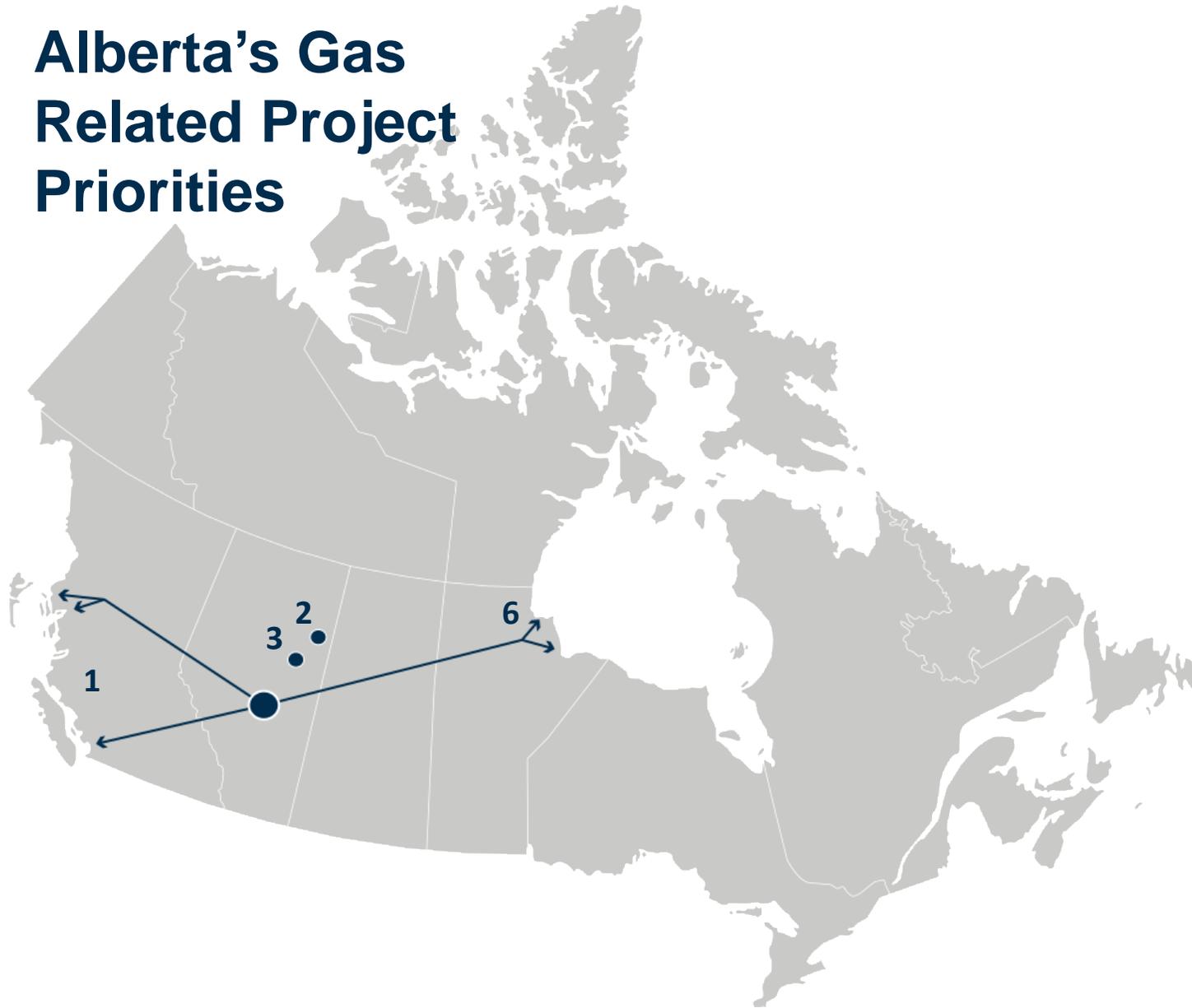
\$300 Billion +

est value of Alberta's
144T cubic feet of
natural gas

\$500 Billion +

est value of Alberta's
brine-hosted lithium
resources

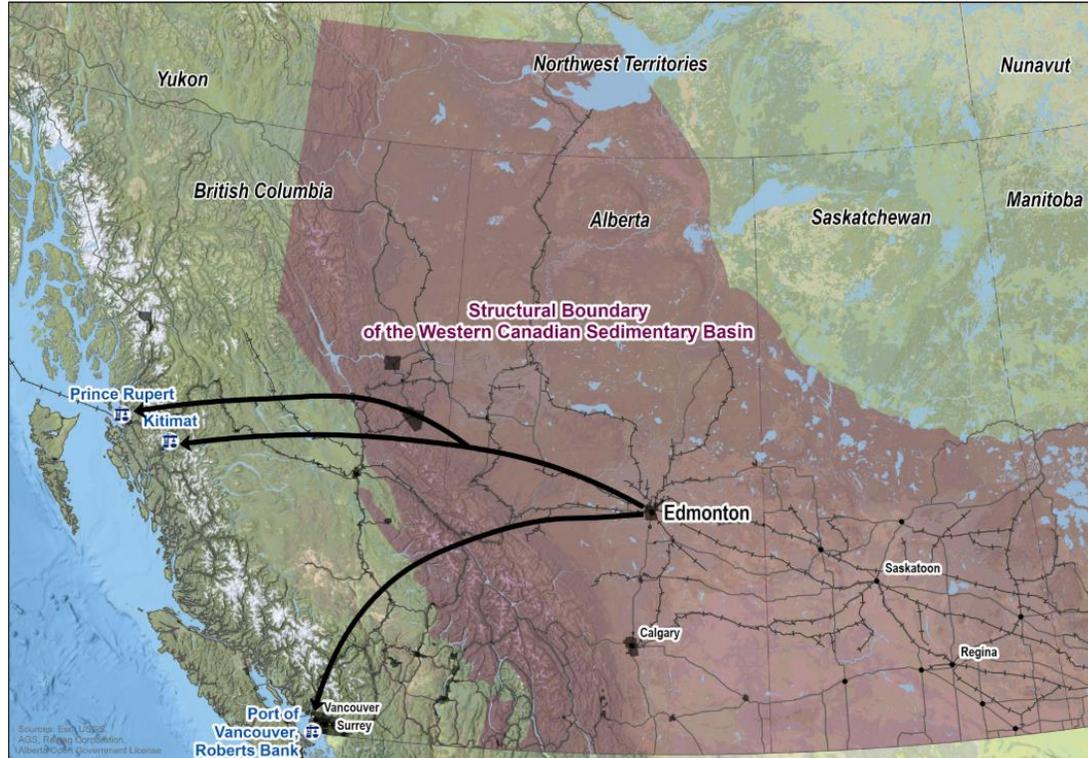
Alberta's Gas Related Project Priorities



- 1. Go West to tidewater at Prince Rupert, Kitimat and Vancouver Ports**
 - Pipelines, rail, & port expansion
 - Lead with oil, gas, agricultural products, mining, wire
- 2. The Pathways Project**
 - priority as leverage for oil and gas projects
- 3. Data Centers (AI/IP)**
 - Powered by natural gas
- 4. Electricity Interties**
 - Strong potential to negotiate with BC
- 5. Additional Proposals**

Directional Priorities

1. West Routes



Project Proposals:

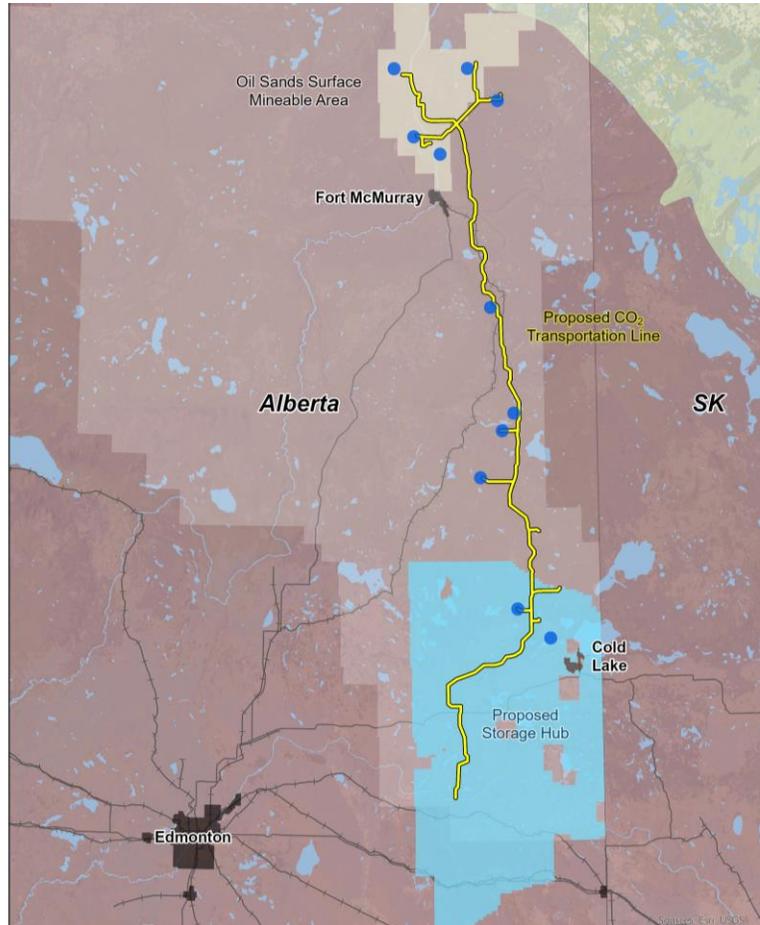
- Crude by Rail to Prince Rupert/Vancouver
- Oil and Gas Pipelines to Prince Rupert and Kitimat
- Rail enhancements CN/CPKC line for multiple resources
- Enhancements at Roberts Bank, Port of Vancouver

Benefits

- Shortest distance from energy resources to tidewater for AB
- North America's closest port to Asia (less time/costs to ship)
- Both locations offer deep-water ports, existing terminal infrastructure
- Ice free inlets = year-round use
- YPR airport and CN rail connections
- Successful Indigenous partnerships on LNG projects in this area
- Numerous project proposals (active/recent) and feature:
 - Potential to create 10's of thousands of jobs in Northern BC and beyond
 - Low emissions using hydropower, advanced technology development and deployment

2. Pathways Project

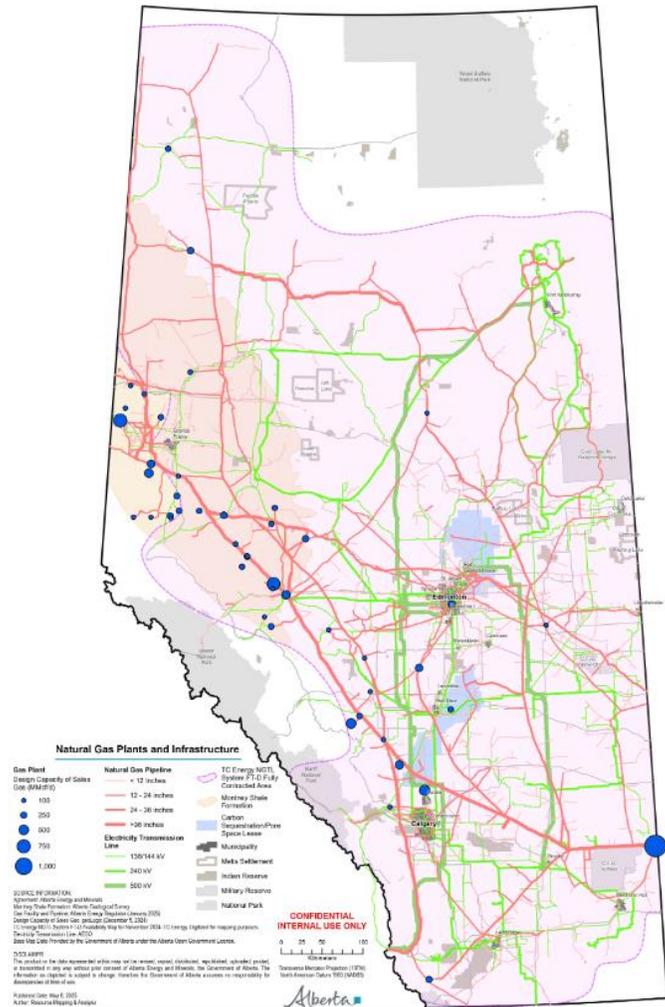
Advancing environmental innovation and technology



Benefits

- Positions Canada to be established as a world leading hub for carbon dioxide removal (CDR) and carbon capture and storage (CCS)
- Increased reduction of emissions, reduction is 68 million tons per annum (Mtpa) of CO₂ emissions by 2050. Up to 8.5 Mt/year in phase 1 (2025-2030) and 40 Mt/year in Phase 2 and 3 (2031+)
- Project proponents are Canadian Natural Resources, Cenovus Energy, Imperial, MEG Energy, ConocoPhillips, and Suncor Energy – 95% Alberta Oil Sands production
- Potential to create thousands of jobs in Alberta Industrial Heartland
- Reduce export markets with low carbon intensity barrels and comply with potential Carbon Border Adjustment Mechanisms (CBAMs) (Europe)
- Enables increased production and provides opportunity for pipeline expansions for exports

4. Data Centers (AI and IP)



Benefits

- Grids across Canada are at 100% capacity and gas will have to be the resource that will drive the energy demand that powers data centres
- Changes will be required to the NGTL system that will necessitate a return of regulatory reform from CER back to Alberta
- Alberta has the opportunity to become the hub for data centres across the country

5. Electricity Intertie Proposals



Existing Interties

AB-BC Intertie	Procure Ancillary Services to Enable Full Import Flows
	Restore Import Capability to 950 MW
	Restore Import Capability to 1,200 MW

AB-SK Intertie	Expand Import and Export Capability
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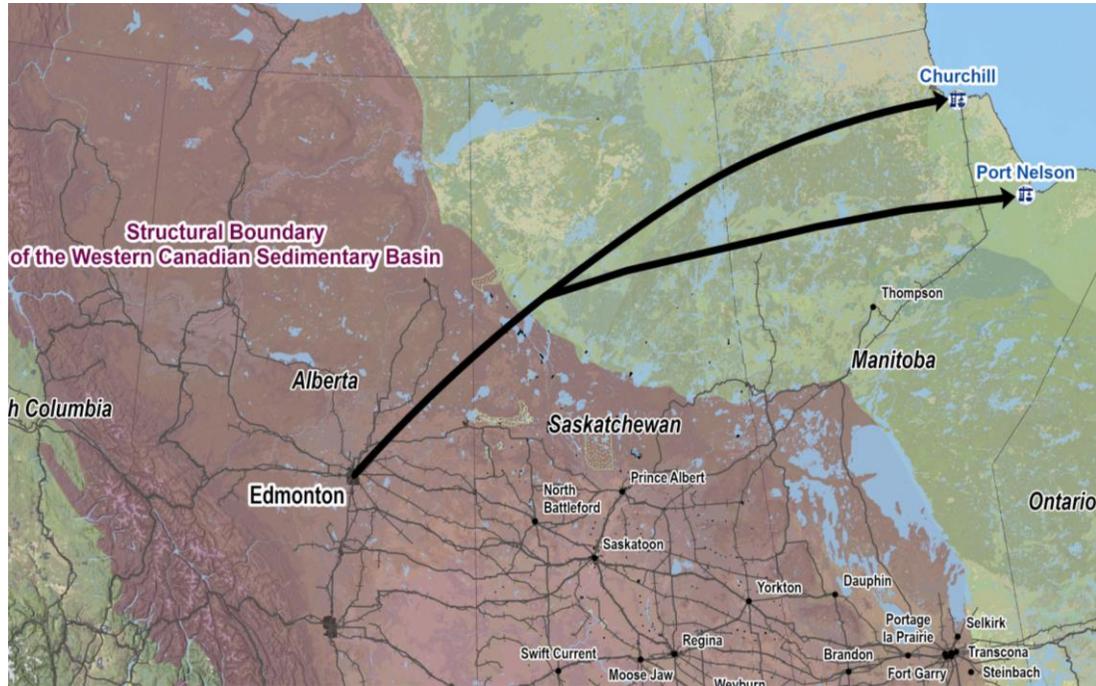
MATL	Procure Ancillary Services to Enable Full Import Flows
	Install Back-to-Back Converter to Decouple from the AB-BC Intertie

Future Intertie Development

Northern AB-BC Intertie	Energize a Second Interconnection with British Columbia
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AB-NWT Intertie	Establish an Interconnection with the Northwest Territories
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6. East Routes (Hudson Bay)



Project Proposals:

- Oil pipeline from Fort McMurray to Lloydminster, AB > The Pas > Port Nelson and/or Churchill MB
- Gas pipeline from TC line > north from Cromer or southern Manitoba to Churchill.
- Rail enhancements to Hudson Bay Railway and Port of Churchill/Port Nelson

Benefits

- Increased presence in the arctic has potential to enhance national security
- Increased energy security for eastern Canada – reduces reliance on energy supplied via the US
- Increased connection (passenger, digital connectivity and goods) for remote and Indigenous communities
- Improvements to rail, port and roads will create new key trade route for several commodities from the prairies (oil, gas, minerals, agriculture) for export to eastern Canada, US east coast, Europe and Africa
- Leverages existing rail and deep-water port infrastructure at Churchill owned by the Arctic Gateway Group (Indigenous and community owned Manitoba company) – federal funded studies and improvements already underway with broad political support
- NeeStaNan is an active Indigenous led proposal for a utility corridor (Port Nelson)
- Potential to create 10's of thousands of jobs in the area

6+. Additional East Proposals



Project Proposals:

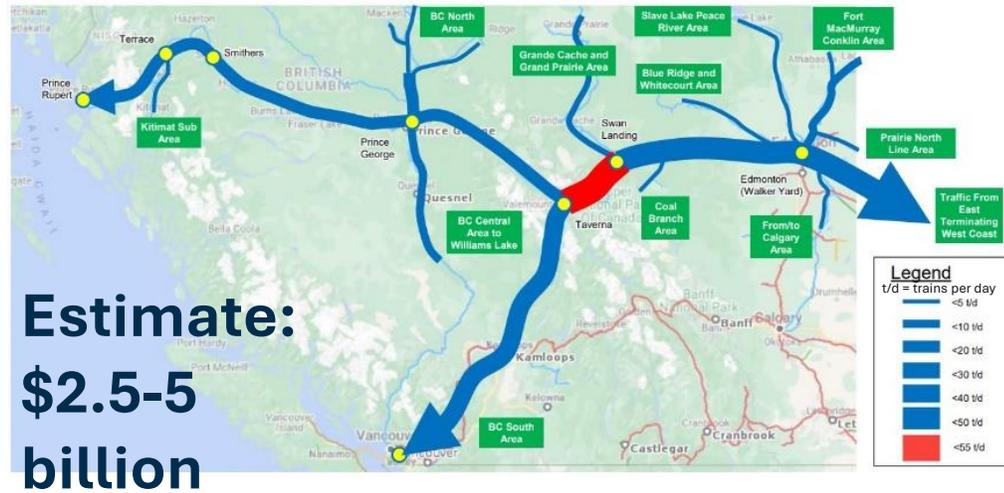
- 3,000km existing natural gas pipeline convertible for oil transport
- 1,600 km new pipeline construction required to complete the route

Benefits

- Provides Alberta producers access to new markets in Eastern Canada and potentially international markets via marine export terminals (e.g., in Saint John, NB).
- Reduces reliance on foreign oil imports by supplying refineries in Quebec and Atlantic Canada with Western Canadian crude; the U.S. supplies nearly all of Quebec's oil and Atlantic Canada relies on Saudi Arabia.
- Utilizes existing infrastructure (converted TransCanada Mainline), reducing capital and environmental costs compared to building an entirely new pipeline.
- Supports local economies along the route, including Indigenous communities and rural municipalities.
- Opportunity to include fibre-optics, electricity interties, rail improvements.

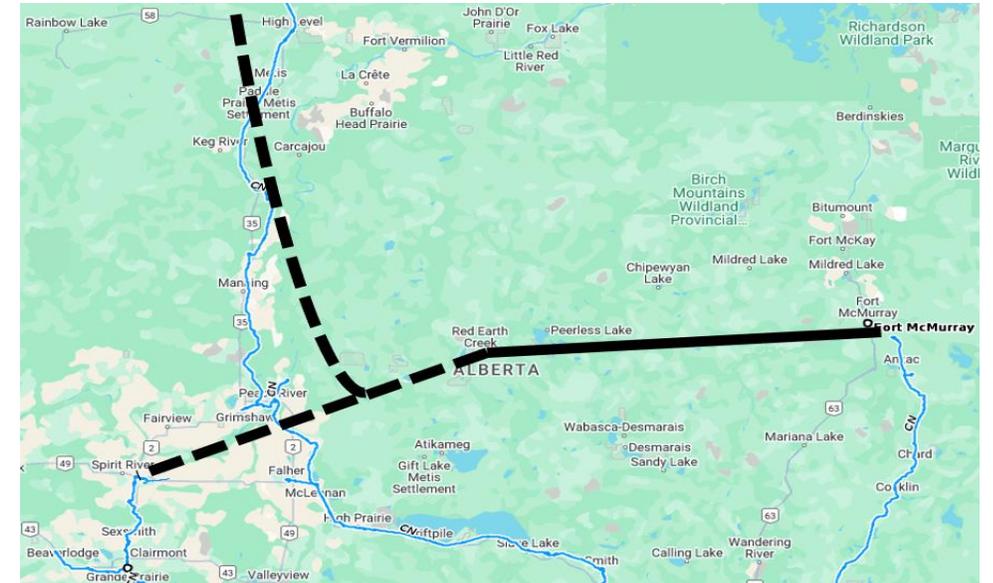
Potential Synergies with Other Government of Alberta Proposals

Connecting Alberta to New Markets



Alberta Industrial Heartland to Prince Rupert Rail Corridor

- The Port of Prince Rupert is a key opportunity for Alberta to expand to new market opportunities, such as the emerging Anhydrous Ammonia market to support green energy in Asian markets
- The port is the deepest in North America and offers the shortest shipping times to Asia
- Announced in June 2024, Transportation and Economic Corridors is supporting the Port Authority to establish an industry-led forum to engage with stakeholders on identifying future growth opportunities and identify challenges.
- In March 2025, Jobs, Economy and Trade entered into studies with the Port Authority to identify export volumes and commodity and transport capacities specifically for Alberta industries through liquid and dry bulk, container and cargo movement to increase Alberta's export opportunities.



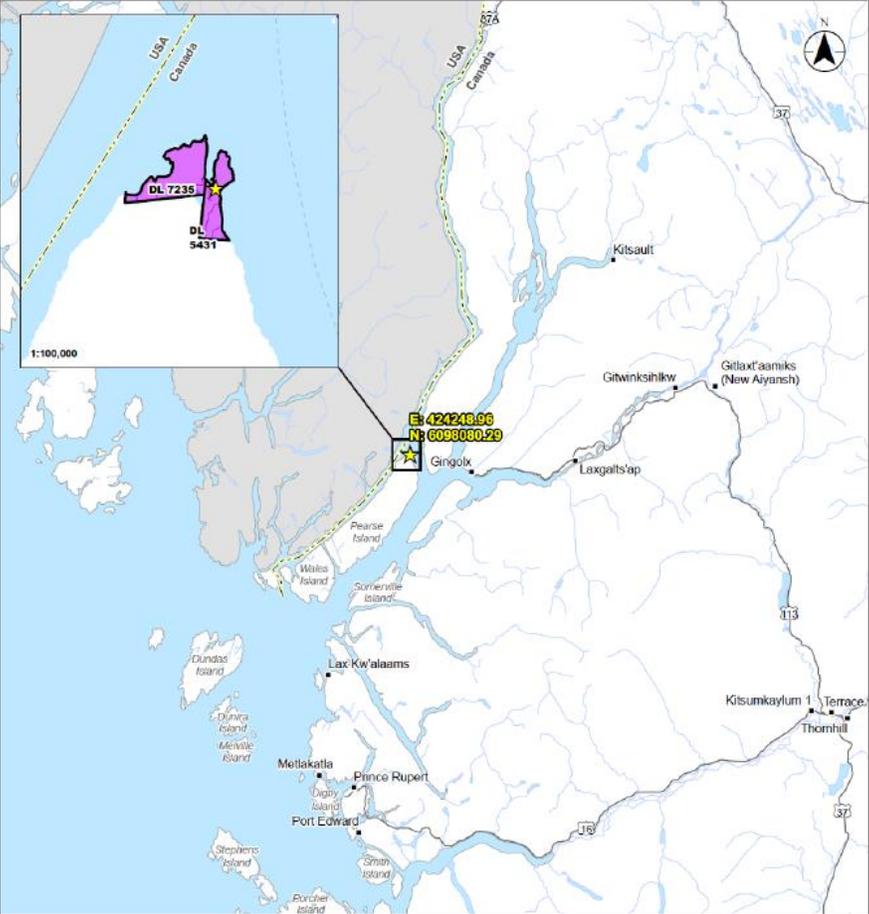
Potential Rail corridor along Highway 686 Extension

- Alberta, Saskatchewan and Manitoba are collaborating under a Memorandum of Understanding to develop pan-provincial connections. In Alberta this includes planning for the extension of Highway 686 between Peerless Lake and Fort McMurray.
- In 2023, Transportation and Economic Corridors signed a Project Development Agreement with Loon River, Peerless Trout, and Bigstone Cree Nation in partnership with United Northern Developments Ltd. on the extension.
- The Potential for rail along Highway 686 emerged from discussion regarding a potential Alberta to Alaska rail route, as well as economic corridors in the Northwest Territories and Nunavut.

Other projects of Interest for USA / CAD

Ksi Lisims LNG

Joint venture including First Nations equity ownership



Benefits:

- Northern export corridor with the shortest marine route to Asia (reduced time/costs).
- The producers are headquartered in Alberta or have their Canadian regional head office in Alberta.
- Co-developed by the Nisga’a Nation and located on Nisga treaty land.
- Low-carbon production, powered by hydroelectricity.

PRIORITISATION	Major Projects list
Proponent(s)	Nisga’a Nation, Rockies LNG, Western LNG
Commodity	Liquid Natural Gas
Capacity	1.6 Bcf/d
Projected Timeline	2029-30 (est.)
Target Market	Asia Pacific
Cost Est (2018)	\$8.3-9 billion
Readiness	BC Approval



Prince Rupert Gas Transmission

Pipeline to supply the proposed Ksi Lisims LNG facility



Benefits:

- Prince Rupert is a deep-water port and a northern export corridor with the shortest marine route to Asia (reduced time/costs).
- Project is approved and awaiting a decision from the BC government on having “substantially started” construction.
- The Nisga Nation is a JV partner.

PRIORITISATION	Major Projects list
Proponent(s)	NW Infrastructure Ltd Partnership (JV Nisga’a Nation and Western LNG)
Commodity	Liquid Natural Gas
Capacity	2 Bcf/d (expandable to 3.6)
Projected Timeline	2029-30 (est.)
Target Market	Asia Pacific
Cost Est (2012)	\$5 billion
Readiness	Awaiting BC Approval

LNG Canada Phase 2

Shell-led proposed LNG export facility



Benefits:

- Northern export corridor with the shortest marine route to Asia (reduced time/costs)
- Phase 2 plans to double the Kitimat plant capacity
- Leverages Phase 1 facilities
- Approved and awaiting a final investment decision

PRIORITISATION	Major Projects list
Proponent(s)	Shell, Petronas, Mitsubishi, PetroChina, Kogas
Commodity	Liquid Natural Gas
Capacity	1.8 Bcf/d
Projected Timeline	2030+ (est.)
Target Market	Asia Pacific
Cost Est (2021)	\$18 billion
Readiness	Awaiting FID

REEF LPG Terminal

Ridley Island Energy Export Facility (REEF)



Benefits:

- The Ridley Island Energy Export Facility (REEF) is a critical multi-phase project that will connect Canadian liquified petroleum gas (LPG) to global markets.
- AltaGas and Vopak have been operating a 92,000 bpd LPG facility in the Prince Rupert region, the Ridley Island Propane Export Terminal (RIPET) since 2019.

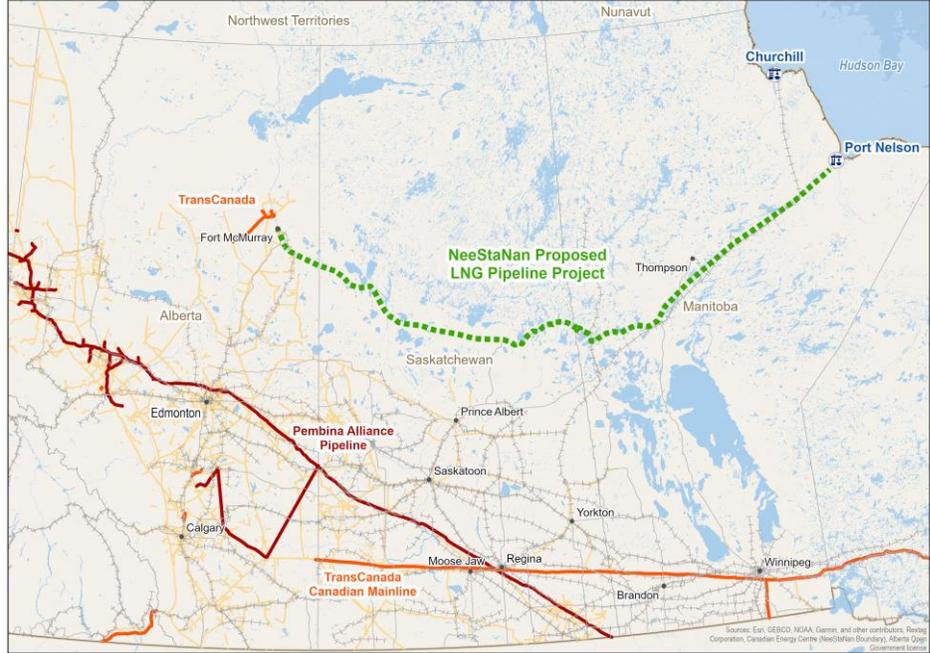
PRIORITISATION	TBD
Proponent(s)	AltaGas (50%) Vopak (50%)
Commodity	Liquid Petroleum Gas
Capacity	Phase 1: 56,000 bpd Phase 2: 65,000 bpd
Projected Timeline	Phase 1: 2026 Phase 2: 2028/29 (est.)
Target Market	Asia Pacific
Cost Est (2025)	Phase 1: \$1.35 billion Phase 2: unknown
Readiness	Phase 1: Under Construction Phase 2: Planning

NeeStaNan LNG Project

First Nations-led proposed utility corridor with potential to export LNG via Port Nelson, Manitoba

Benefits:

- Port Nelson is proposed as an alternative to Churchill, it has been a small deepwater port since 1931 and has greater seasonality (saltwater ice easier to break-up)
- Several First Nations are members of the consortium and would have ownership over the right-of-way
- 11 First Nations propose to build an industrial terminal to support exports of LNG to Europe, potash to Brazil
- Requires a 1000km spur line off TC Energy’s mainline using Manitoba Hydro existing RoW or shipping via Pembina Pipeline Alliance system to Regina to be liquified and shipped by rail to Port Nelson (needs 150km of new track)
- MB Govt contributed \$6.7M to feasibility study

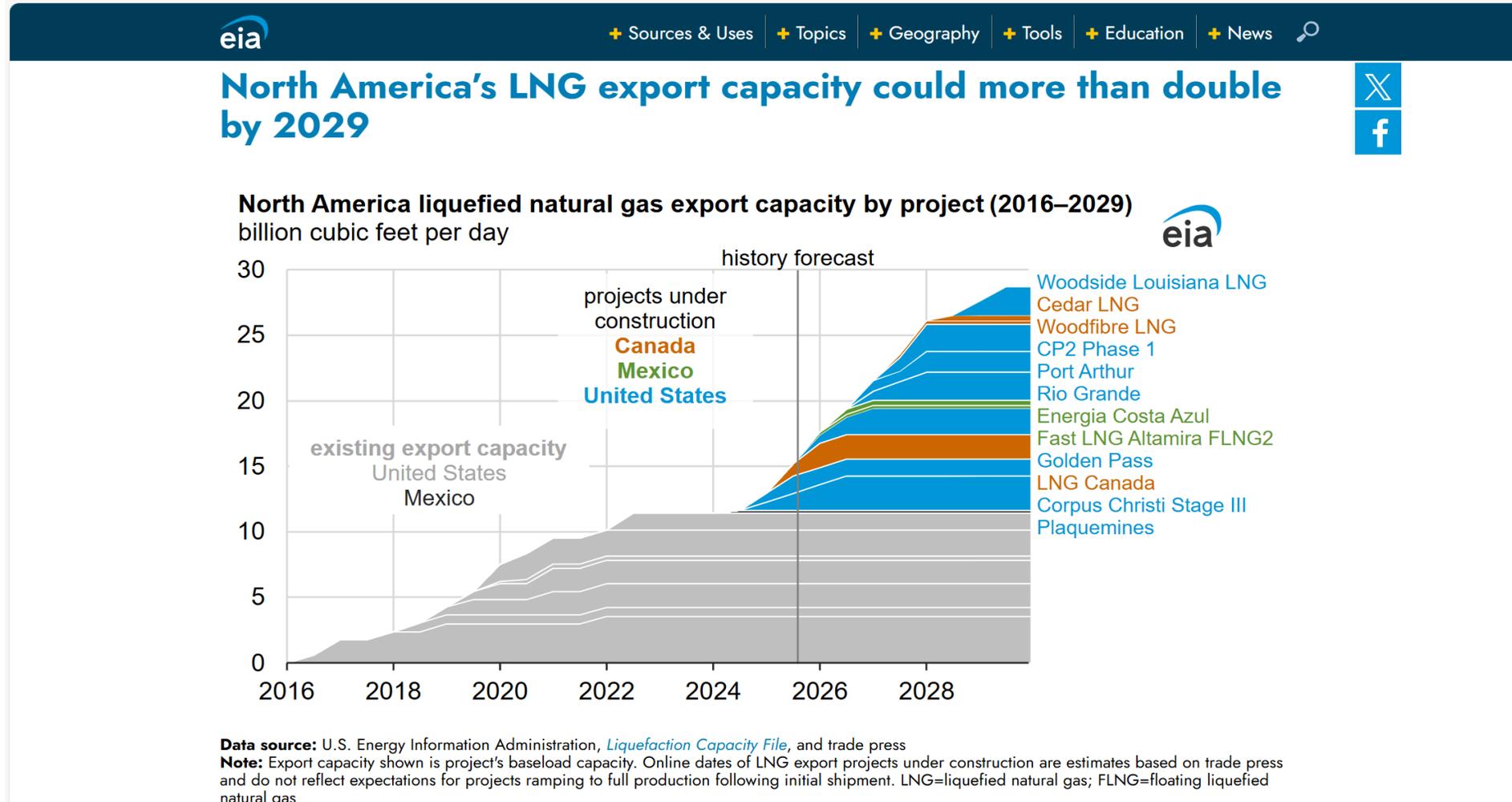


PRIORITISATION	TBD
Proponent(s)	NeeStaNan LNG Project
Commodity	Liquid Natural Gas
Capacity	TBD
Projected Timeline	2035-40 (est.)
Target Market	Europe
Cost Est (2021)	\$35-50 billion
Readiness	Early feasibility stage

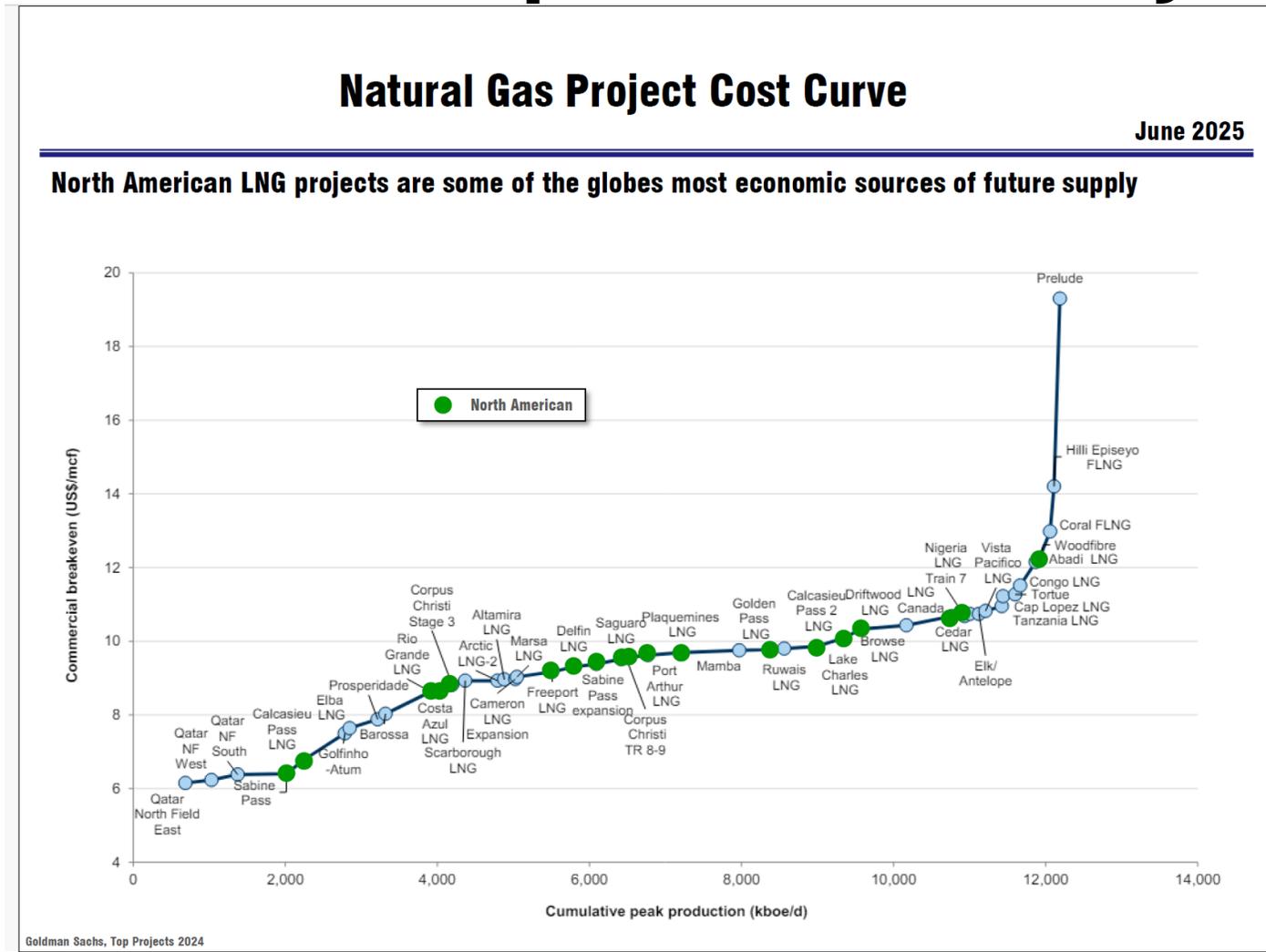


Global LNG Demand & Where we Stand

Our Potential



Are we Cost Competitive for Projects?



Export Locations



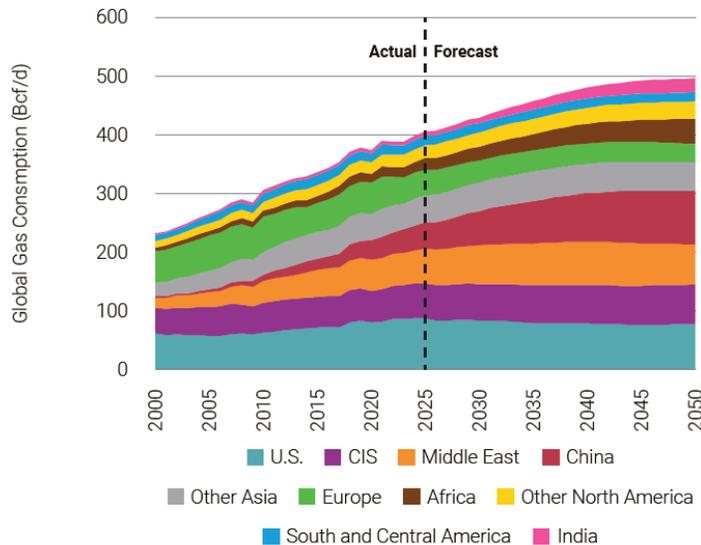
Power – Heating – Drive LNG Demand

Natural gas consumption grew 3.5 Bcf/d more than we projected in our 2024 report (**Appendix A**), led by an increase in “other” demand, highlighting the lack of substitution. Total gas-fired power generation fell in line with our expectations.

China continues exceeding its renewable energy targets, driven by the need to serve its massive power demand accounting for one-third of the world’s total. Meeting this demand requires growth across renewables, nuclear, coal and gas. With China consuming nearly 3x more power than its closest competitor, the U.S., the Asian superpower’s gas demand is forecast to double by 2050 and reach 90 Bcf/d.

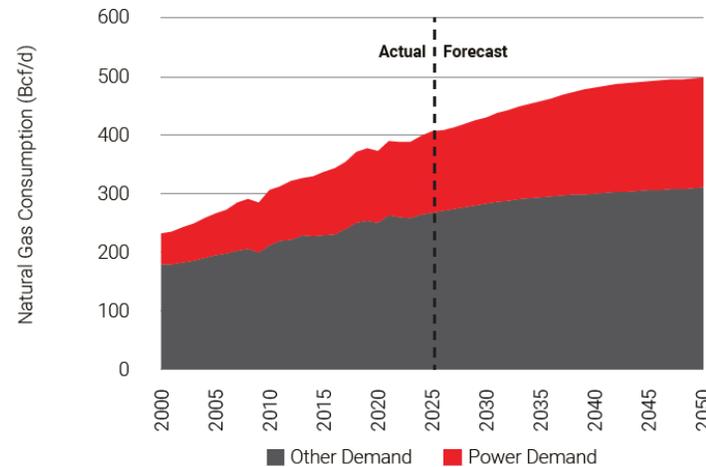
U.S. power generation was roughly in line with expectations, although renewable generation significantly underperformed, while coal and gas usage exceeded expectations. We expect continued underperformance to be exacerbated in the coming years due to policy changes by President Donald Trump’s administration. Subsidy rollbacks for renewable projects potentially put at risk about **70% of queued solar PV projects**.

FIGURE 1 | Global Natural Gas Consumption by Region



Source | Enverus Intelligence® Research, Energy Institute, IEA

FIGURE 2 | Global Natural Gas Consumption



Source | Enverus Intelligence® Research, Energy Institute, IEA

Our Role as “Law Makers”

In the Best interest of our nations and allies

- Stop playing Political Football with Energy
- Harmonize regulatory and compliance items
- Find out what a Yes looks like, and replicate it
- Economic Corridors
- Long term contracts and mutual infrastructure investments with long term allies
- Regional Stability through Energy vs “Peace Keeping”
- Be consistent, be reliable, and Step Up in a timely manner

Closing Thoughts and Discussions?

- Take Aways & Discussion