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# **Updates From Last Publication**

- Slides 7-9: CER pipeline and rail data updated to September 2023
- Slide 10: Commodity prices updated to December 2023
- Slides 11 & 14: CER pipeline, rail, and production data updated to September 2023
- Slides 11-13: Updated to reflect the latest Trans Mountain Expansion project developments
- Slides 15: Updated to reflect the latest Enbridge pipeline tolls
- Slides 19-21: CER pipeline and production data updated to September 2023
- Slide 22: Commodity prices updated to December 2023
- Slide 26: Added project updates for Cedar LNG (EPC contract awarded), Ksi Lisims LNG (signed 20-year purchase and sale agreement), and Coastal GasLink (complete – late 2023)
- Slide 27: Added project update for Coastal GasLink (complete late 2023)

## **Summary**

Canada is both a significant consumer and supplier of energy. Substantial energy infrastructure has been developed over decades to gather, process, and ship energy to domestic and export markets.

#### Oil and Natural Gas Liquids Infrastructure Highlights

- There are more than 840,000 km of transmission, gathering, and distribution pipelines in Canada. The pipeline network delivers natural gas, natural gas liquids, and crude oil for domestic use and export.
- Canada has more than doubled its pipeline and rail flows out of the Western Canadian Sedimentary Basin (WCSB) to ~4.5 MMB/d (from ~2 MMB/d) since 2007 to accommodate oil sands growth, however, growth has ultimately been constrained due to limited egress capacity, including the cancellation of three major pipeline projects.
- The Trans Mountain Expansion Project (TMEP) is expected to be in service in Q2/2024 and will add ~590 MB/d of egress capacity, marking a major milestone for Canadian oil producers and providing tidewater access to new markets.

#### **Natural Gas Infrastructure Highlights**

- A large network of pipelines moves natural gas from producing regions in Western Canada to Eastern Canada and the United States, where Canada represents the largest foreign supplier.
- Starting in 2016/2017, constraints in regional gathering systems and export lines have limited growth and depressed prices, but recent capacity expansions have helped mitigate these issues. Canadian gas started to be exported from US LNG terminals in 2023. The first Canadian LNG export projects are under construction and will provide greater access to higher-priced international markets.

Western Canada Pipeline Export Capacity (2022)

10.9 Bcf/d

Natural Gas<sup>1</sup>

4.6 MMB/d

**Crude Oil and NGLs** 

Source: Natural Resources Canada, Canada Energy Regulator

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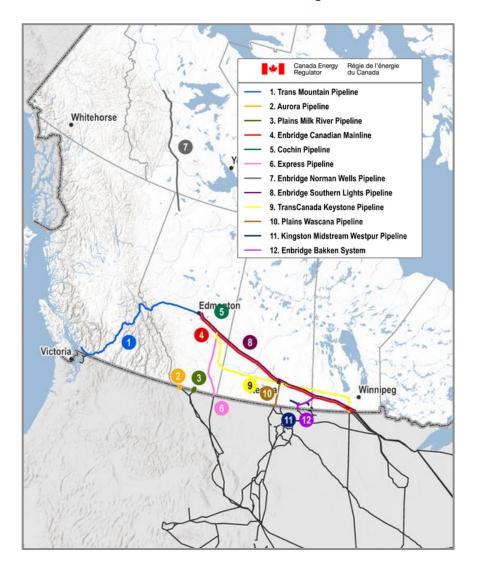
<sup>&</sup>lt;sup>1</sup> Gas capacity is effective capacity considering NGTL export constraints



**Liquids Transportation** 



# **WCSB Crude Oil Export Infrastructure**



- In 2022, ~4.3 MMB/d of crude oil and NGL was exported out of the WCSB via six major export pipelines, including ~3.8 MMB/d of crude oil exports to the US, the majority of the rest was consumed in Canada.
- With ~3.0 MMB/d of throughput in 2022, the Enbridge Mainline is the largest export pipeline in Western Canada, transporting crude oil and NGLs to Eastern Canada and the US.
- There are five other major export pipelines out of Western Canada that account for the remaining crude oil and NGL flows.

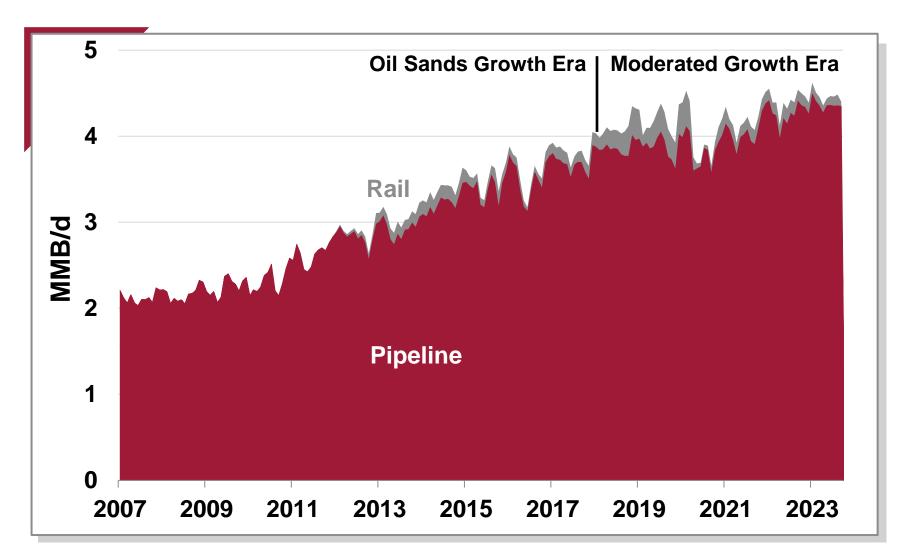
| Export Pipelines |                         |                                                    |                            |  |  |
|------------------|-------------------------|----------------------------------------------------|----------------------------|--|--|
|                  | Pipeline                | Average Annual<br>Throughput - 2022<br>('000s B/d) | Destination                |  |  |
| 4                | Enbridge Mainline       | 2,956                                              | US Exports, Eastern Canada |  |  |
| 1                | Trans Mountain          | 323                                                | Marine Exports, BC         |  |  |
| 6                | Enbridge Express*       | 276                                                | US Exports                 |  |  |
| 9                | TC Energy Keystone      | 582                                                | US Exports                 |  |  |
| 23               | Rangeland / Milk River* | 127                                                | US Exports                 |  |  |
|                  | Total                   | 4,263                                              |                            |  |  |

<sup>\*</sup>Express/Rangeland/Milk River throughput assumed equal to capacity

Note: The above list is comprised of crude oil export pipelines only

Source: Canada Energy Regulator, US Energy Information Administration

#### WCSB Canadian Oil Exports by Pipeline Throughput and Rail | Monthly | 2007 to Q3/2023\*

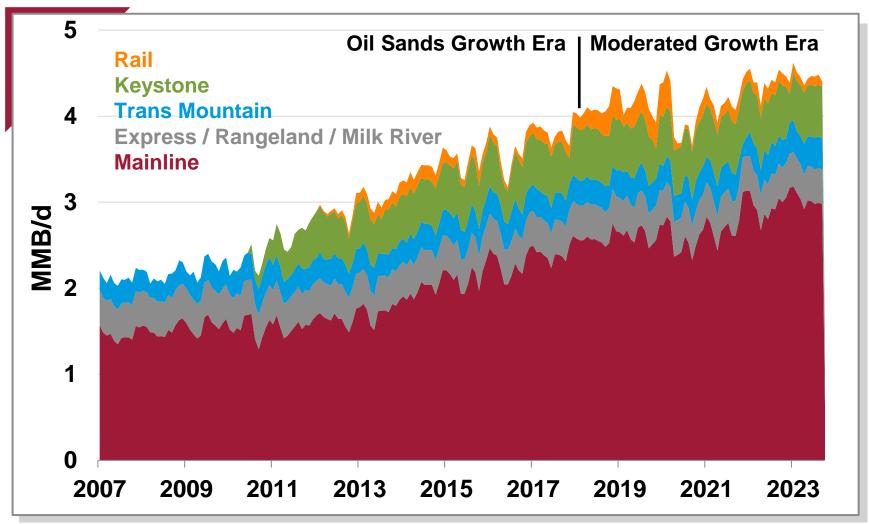


- Since 2007, Canada has more than doubled its export flows (pipeline and rail) out of the WCSB to ~4.5 MMB/d (from ~2 MMB/d) to accommodate oil sands growth.
- However, growth has ultimately been constrained due to limited egress capacity, including the cancellation of three major pipeline projects (Keystone XL, Northern Gateway, and Energy East).
- When insufficient pipeline capacity exists, oil can also be exported by rail. Even with ample takeaway, some volumes still flow on rail due to a lack of pipeline capacity, or advantaged rail economics in certain regions.

\*2023 data is up to Sep 2023

Source: Canada Energy Regulator

#### WCSB Canadian Oil Exports by Pipeline Throughput and Rail | Monthly | 2007 to Q3/2023\*

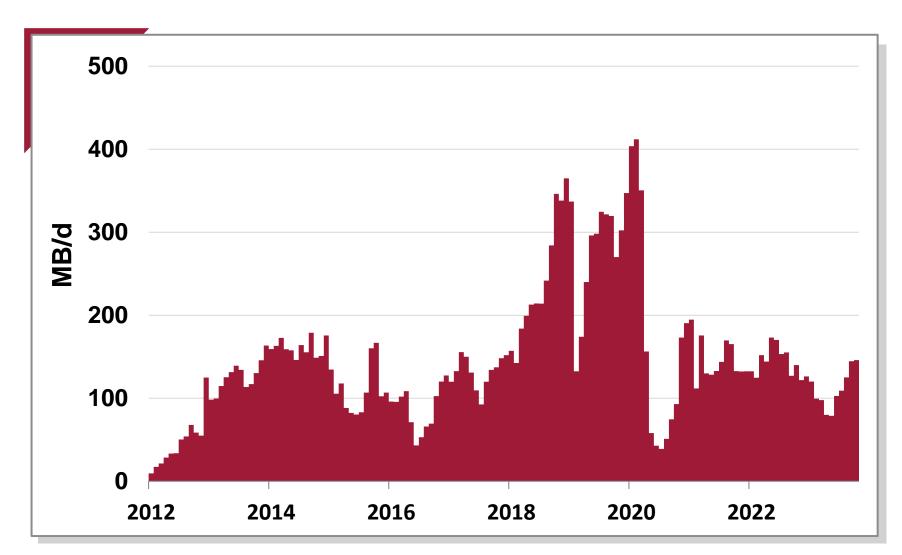


 Of note, Enbridge has doubled pipeline throughput on the Mainline from ~1.5 MMB/d in 2007 to ~3.0 MMB/d currently, owing to debottlenecking initiatives and the recently completed Line 3 Replacement.

Source: Canada Energy Regulator \*2023 data is up to Sep 2023

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## Canadian Oil Exports to the United States by Rail | Monthly | 2012 to Q3/2023\*

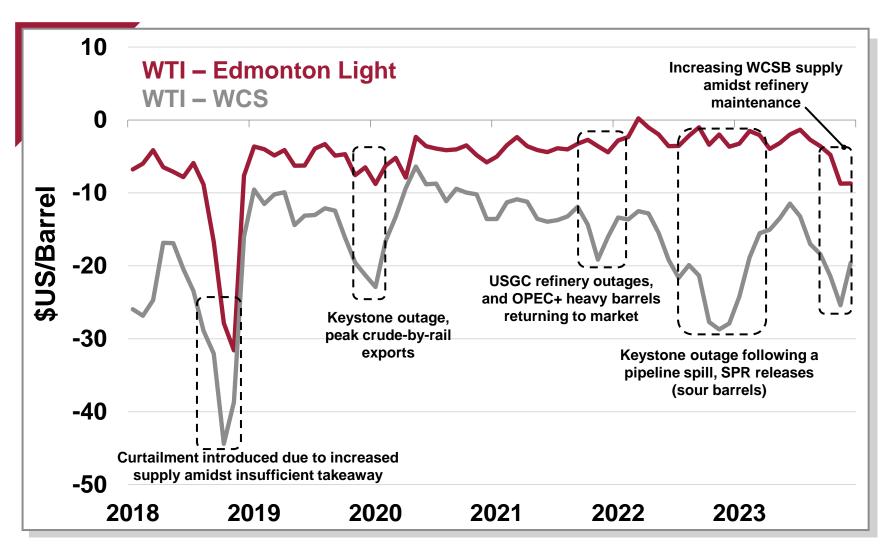


- Rail exports act as an important relief valve at times of insufficient pipeline capacity.
   The interconnected North American rail network allows access to the many important export markets.
- Rail exports peaked at 412 MB/d in early 2020 due to a lack of egress but fell shortly after when supply fell due to the COVID-related price drop.
- Crude-by-rail remains in place as the marginal transport option should pipeline disruptions occur. However, it is generally a more expensive alternative to pipelines.

Source: Canada Energy Regulator

\*2023 data is YTD up to Sep 2023

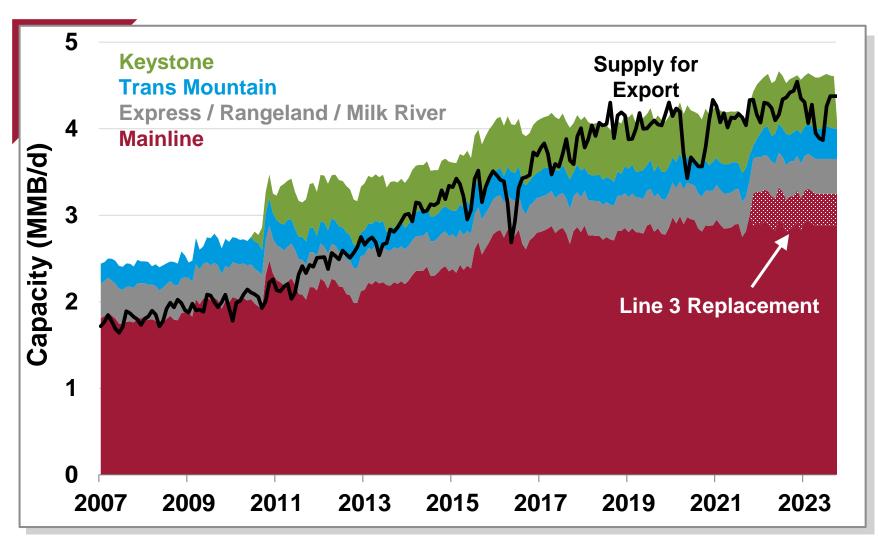
### Western Canada Crude Oil Differentials to WTI | Monthly | 2018 to Dec 2023



- Canadian price discounts blew out during the fall of 2018 as new oil sands supply came to market amidst insufficient pipeline takeaway capacity.
- During times of insufficient pipeline capacity, price differentials for Canadian crude oil widen against US benchmark pricing.
- The Alberta government introduced a production curtailment program, which helped alleviate the oversupply.
- Since mid-2020, incremental capacity has helped keep discounts relatively narrow, although outages and other anomalies can still lead to a temporary widening.

Source: Bloomberg

## WCSB Oil Pipeline Capacity vs. Supply for Export | Monthly | 2007 to Q3/2023\*



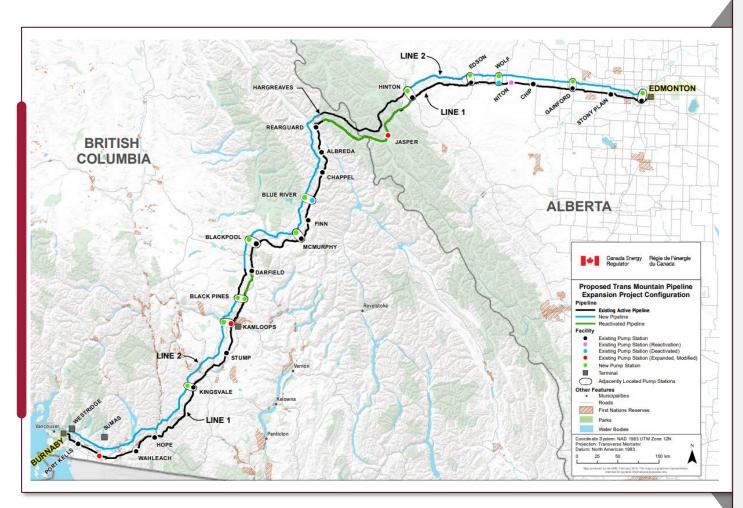
- The WCSB reached a point of insufficient egress capacity in 2018 following a period of significant oil sands growth.
- The recently completed Enbridge Line 3 Replacement in 2021 (+370 MB/d) has helped normalize supply/demand dynamics in the short term.
- Looking ahead, the Trans
   Mountain Expansion Project
   (TMEP), which will add 590 MB/d
   of takeaway capacity, will be
   needed to accommodate future
   growth out of the WCSB and
   mitigate further differential
   blowouts.
- TMEP expected to be in service in Q2/2024 following approval by the Canada Energy Regulator for a pipeline variance for a 2,300m segment.

Source: Canada Energy Regulator

Note: Supply for export is net of Western Canada refinery demand and excludes NGLs

\*2023 data is up to Sep 2023

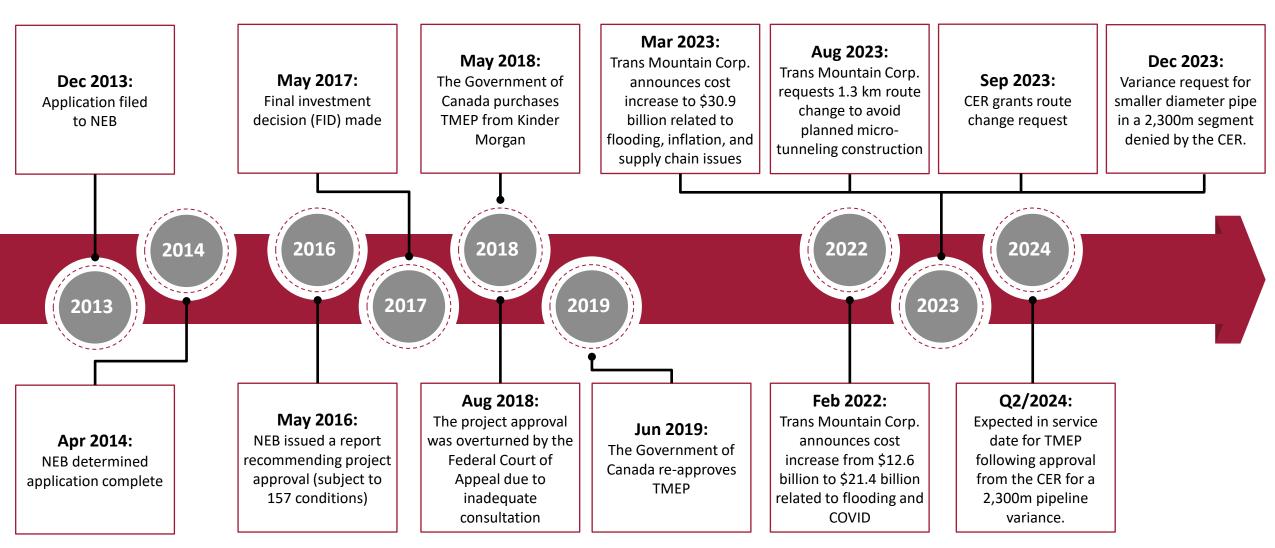
# **Trans Mountain Expansion Project (TMEP) Overview**



- Location: Edmonton, AB to Burnaby, BC
- Capacity: 590 MB/d
- Committed shippers: 10 (incl. Canadian Natural Resources, Cenovus, Suncor, etc.) representing ~80% of the total pipeline capacity
- Commercial operation date: March 2024
- Project Description: The TMEP pipeline is a twinning of the existing ~1,150 km Trans Mountain pipeline and will add 590 MB/d of export capacity. Importantly, once complete, the pipeline will provide shippers with increased tidewater access to key export markets in California and Asia.

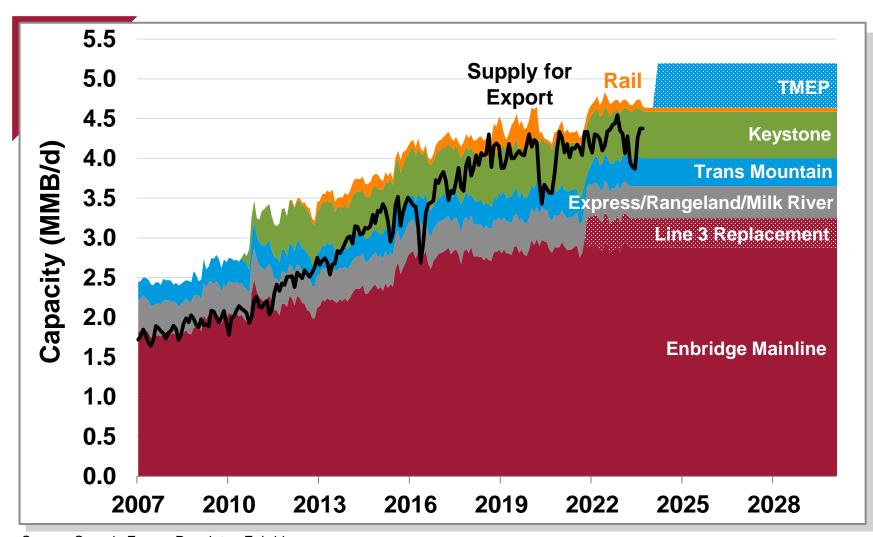
Source: Canada Energy Regulator, Trans Mountain Corp.

# Trans Mountain Expansion Project (TMEP) Historical Timeline – Key Dates



Source: Canada Energy Regulator, Trans Mountain Corporation

# WCSB Egress Outlook vs. Supply | Monthly | 2007 to Q3/2023\*



- The TMEP should have a positive impact on crude differentials as firm service occupies 80% of the overall system (equating to ~700 MB/d), which will reallocate barrels otherwise destined for Ontario and the US Midwest (PADD II), creating scarcity in those markets.
- Presently, no further major crude oil export pipelines are planned.
   Based on assumed pipeline capacities and refinery demand, with TMEP, if production grows by ~900 MB/d from 2022 levels, pipeline capacity would once again become a constraint to growth.
- However, Enbridge can increase the Mainline by another ~200 MB/d (not pictured).

Source: Canada Energy Regulator, Enbridge

Note: Supply for Export is net of Western Canada refinery demand and excludes NGLs

\*2023 data is up to Sep 2023

# **WCSB Oil Export Pipeline Tolls**

| Pipeline Tolls for | or Light Oil (US \$ per Barrel)           | Low                 |              | High                |          |              |
|--------------------|-------------------------------------------|---------------------|--------------|---------------------|----------|--------------|
|                    | Burnaby (2024 Trans Mountain Expansion)   | 7.15 <sup>v</sup>   | <del>-</del> | 9.30 <sup>v</sup>   |          |              |
|                    | Anacortes (TMEP/Puget)                    | 7.30 <sup>v</sup>   | _            | 9.40 <sup>v</sup>   |          |              |
|                    | Sarnia (Enbridge)                         |                     |              | 4.69 <sup>iv</sup>  |          |              |
|                    | Montréal (Enbridge)                       |                     |              | 7.99 <sup>iv</sup>  |          |              |
| Edmonton to:       | Chicago (Enbridge)                        |                     |              | 4.13 <sup>iv</sup>  |          |              |
|                    | Cushing (Enbridge)                        | 5.83 <sup>iii</sup> | <del>-</del> | 7.37 <sup>iv</sup>  |          |              |
|                    | Wood River (Enbridge/Mustang/Capwood)     |                     |              | 6.13 <sup>iv</sup>  |          |              |
|                    | USGC (Enbridge/Seaway)                    |                     |              | 10.18 <sup>iv</sup> |          |              |
|                    | Westridge (2024 Trans Mountain Expansion) | 7.70 <sup>v</sup>   | _            | 9.95 <sup>v</sup>   | <b>—</b> |              |
|                    | Guernsey (Express/Platte)                 |                     |              | 3.80 <sup>i</sup>   |          |              |
|                    | Wood River (Express Platte)               |                     |              | 5.85 <sup>i</sup>   |          |              |
| Hardisty to:       | Wood River (Keystone)                     | 4.70 <sup>ii</sup>  | _            | 10.55               |          |              |
|                    | USGC (Keystone)                           | 8.00 <sup>iv</sup>  | _            | 13.70 <sup>ii</sup> | -        |              |
|                    | USGC (Enbridge)                           |                     |              | 9.97 <sup>iv</sup>  |          |              |
| Pipeline Tolls fo  | or Heavy Oil (US \$ per Barrel)           |                     |              |                     |          | Paths to     |
| Edmonton to:       | Westridge (2024 Trans Mountain Expansion) | 7.75°               | _            | 10.00°              | ◀        | <del>-</del> |
|                    | Chicago (Enbridge)                        |                     |              | 4.58 <sup>iv</sup>  |          | Tidewater    |
|                    | Cushing (Enbridge)                        | 6.28 <sup>iii</sup> | _            | 7.82 <sup>iv</sup>  |          |              |
|                    | Cushing (Keystone)                        | 6.15 <sup>ii</sup>  | _            | 10.45               |          |              |
| Houdisty to        | Wood River (Enbridge/Mustang/Capwood)     |                     |              | 6.58iv              |          |              |
| Hardisty to:       | Wood River (Keystone)                     | 5.45 <sup>ii</sup>  | _            | 11.55               |          |              |
|                    | Wood River (Express/Plattte)              |                     |              | 6.55 <sup>i</sup>   |          |              |
|                    | USGC (Enbridge/Seaway)                    |                     |              | 10.62iv             | -        |              |
|                    | USGC (Keystone)                           | 8.70 <sup>iv</sup>  | _            | 14.60 <sup>ii</sup> | <b>←</b> |              |

- Tolls determine the difference between prices in export markets and what Canadian producers receive.
- Tolls vary based on several factors, including crude quality, pipeline route, length of commitment, and volume.
- Canadian crude oil is exported predominantly to the US Midwest, the US Gulf Coast, and Eastern Canada. Coastal markets generally offer the strongest pricing, but access has historically been limited.
- TMEP tolls have been applied for but not finalized. They are comparable to other tidewater paths, although marine costs are uncertain.

Notes: 1) Assumed exchange rate = 0.74 US\$ / 1C\$; 2) Tolls rounded to nearest 5 cents; 3) Tolls In effect July 1, 2023.

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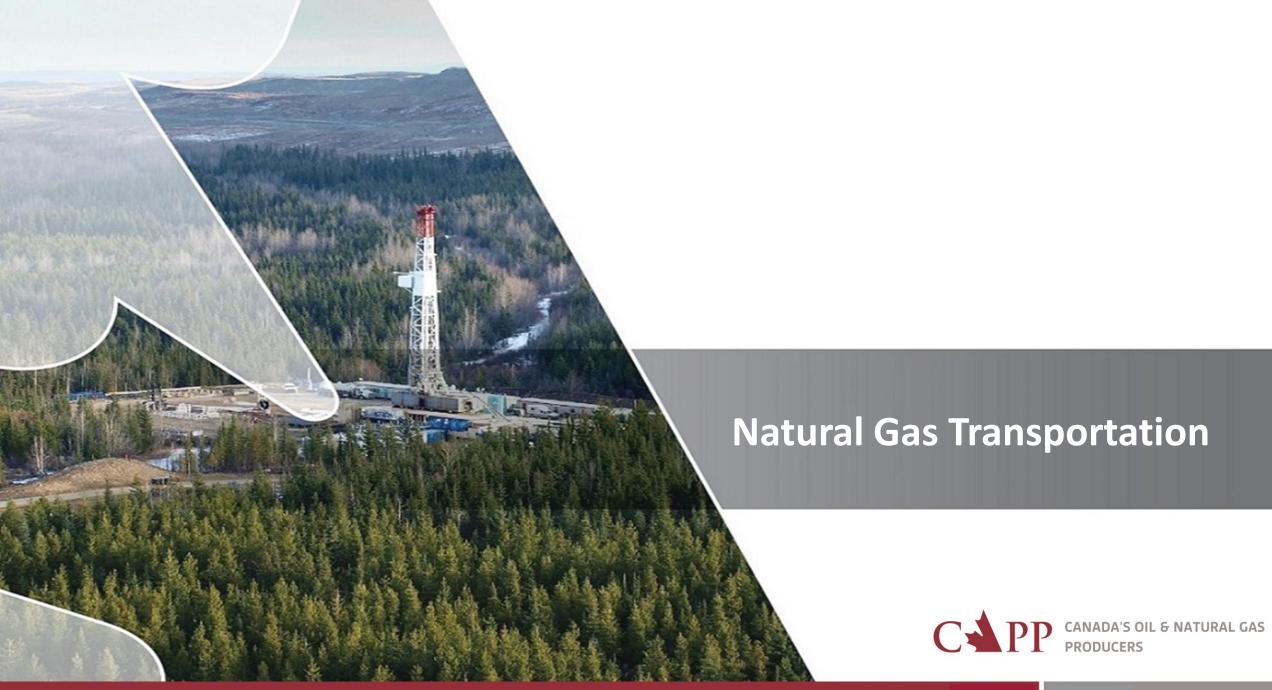
<sup>&</sup>lt;sup>1</sup>10-14 year committed toll; <sup>2</sup>20-year committed toll; <sup>2</sup>Committed >= 10,000 b/d; <sup>1</sup>International Joint Tariff, others are uncommitted tolls; <sup>2</sup>Based on Interim Commencement Date Filing

# **Major Cancelled Crude Oil Pipeline Projects**

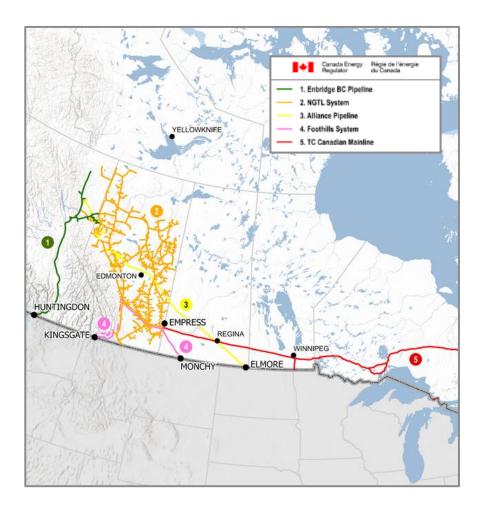
| Proposed Pipeline            | Capacity<br>('000s B/d) | From           | То                      | Date of Cancellation | Reason                                                                                                                     |
|------------------------------|-------------------------|----------------|-------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------|
| Enbridge Northern<br>Gateway | 525                     | Bruderheim, AB | Kitimat, BC             | Nov 2016             | Cancelled by the Government of Canada due to environment effects and banned oil tanker traffic on the north coast of BC.   |
| TC Energy Energy East        | 1,100                   | Hardisty, AB   | Saint John, NB          | Oct 2017             | Project application withdrawn by TC<br>Energy due to potential cost implications<br>associated with the regulatory process |
| TC Energy Keystone XL        | 830                     | Hardisty, AB   | Steel City,<br>Nebraska | June 2021            | Project cancelled by TC Energy due to its cross-border permit being revoked by the Biden administration                    |
| Total                        | 2,455                   |                |                         |                      |                                                                                                                            |

- Despite the cancellation of three major pipeline projects (Keystone XL, Northern Gateway, and Energy East), Canada has more than doubled its export flows out of the WCSB to ~4.5 MMB/d (from ~2 MMB/d) since 2017.
- These projects were canceled due to regulatory impediments and environmental concerns.
- Due to this track record, future major greenfield export pipelines are not expected.
   Project cancellations have proven to be costly, with Alberta on the hook for ~\$1.3 billion in sunk costs related to KXL, and a ~\$1.1 billion impairment charge for TC Energy.

Source: Canada Energy Regulator, Government of Alberta, TC Energy



## **WCSB Natural Gas Export Infrastructure**



- The Western Canadian Sedimentary Basin (WCSB) has a large network of natural gas gathering and export infrastructure. In 2022, over 9.8 Bcf/d of natural gas left the basin via four main export systems, travelling to markets in Canada and the United States.
- The NOVA Gas Transmissions Ltd system (NGTL) is the main gas gathering system for Alberta. While it does not export gas directly, it connects with other export lines.
- Although capacity on export lines technically exceeds annual throughput, constraints on the NGTL System currently limit the amount of gas that can reach these other systems and ultimately move to export markets.

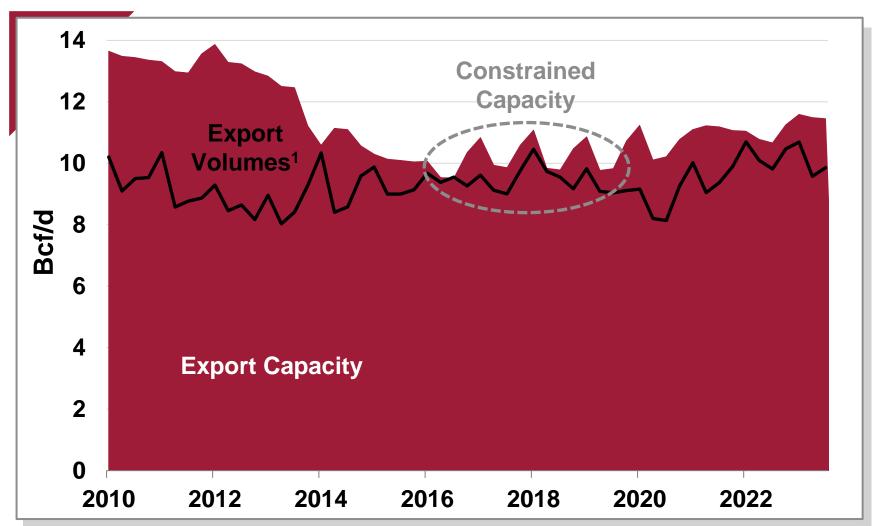
| CER Regulated Natural Gas Export Pipelines and Gathering Infrastructure |                                           |                                             |                                      |  |  |
|-------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|--------------------------------------|--|--|
| Pipeline                                                                | Avg Annual<br>Capacity - 2022*<br>(Bcf/d) | Avg Annual<br>Throughput - 2022*<br>(Bcf/d) | Destination                          |  |  |
| 1 Enbridge BC Pipeline                                                  | 1.73                                      | 1.17                                        | US Exports, Western-Canada           |  |  |
| 2 NGTL System**                                                         | -                                         | -                                           | <b>Local Use and Other Pipelines</b> |  |  |
| 3 Alliance Pipeline                                                     | 1.62                                      | 1.78                                        | US Exports                           |  |  |
| 4 Foothills System                                                      | 5.12                                      | 3.17                                        | US Exports                           |  |  |
| TC Energy Mainline                                                      | 6.31                                      | 3.72                                        | US Exports, Eastern-Canada           |  |  |
| Total                                                                   | 14.78                                     | 9.84                                        |                                      |  |  |

<sup>\*</sup>WCSB export volumes only. Capacity based on average daily available capacity not nameplate

Source: Canada Energy Regulator

<sup>\*\*</sup>NOVA Gas Transmission Ltd. (NGTL) System does not export directly from the WCSB, but interconnects with other export pipelines: Foothills System & TC Energy Mainline via West Gate and East Gate

## WCSB Effective Gas Export Capacity vs. Export Volume | Quarterly | 2010 to Q3/2023\*



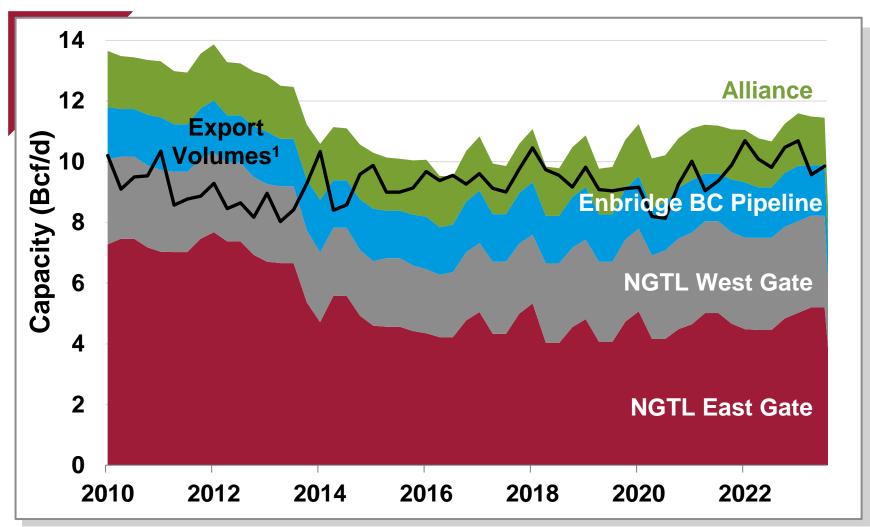
- Total effective export capacity in the WCSB was higher in the early 2010s but fell due to a number of operational constraints. Capacity has been gradually increasing after hitting a bottom in 2016.
- Export volumes have varied over this period, sometimes reaching over 10 Bcf/d. When pipeline capacity utilization exceeds 90% the system is less able to accommodate for disruptions, creating constrained capacity.
- Capacity was tight from 2016 to 2019, and again in the summer of 2022. However, new capacity in late 2022 has helped to alleviate constraints. Future expansions are also expected.

Source: Canada Energy Regulator

\*2023 data is up to Sep 2023

<sup>&</sup>lt;sup>1</sup> Export volumes calculated as cumulative pipeline throughput of the respective pipelines

## WCSB Effective Gas Export Capacity vs. Export Volume | Quarterly | 2010 to Q3/2023\*



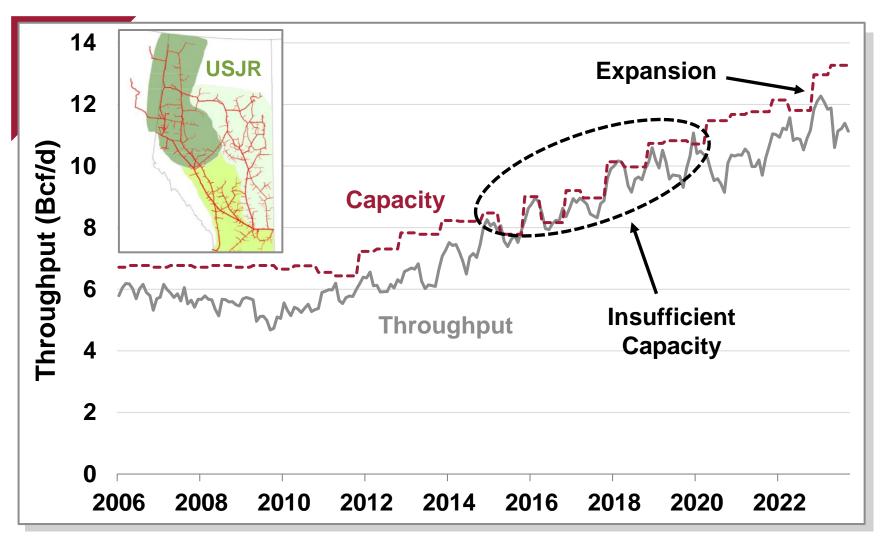
- The total effective capacity to export gas from the WCSB depends on the available capacity to leave the NGTL System (West and East Gate), plus the Alliance and Enbridge BC systems.
- The drop in effective capacity from 2010 to 2016 was largely driven by constraints in the NGTL System delivering to other pipelines.
- A large expansion at the end of 2022 has helped to mitigate these constraints.

Source: Canada Energy Regulator

\*2023 data is up to Sep 2023

<sup>&</sup>lt;sup>1</sup> Export volumes calculated as cumulative pipeline throughput of the respective pipelines

#### NGTL Natural Gas Transportation Capacity | Upstream of James River | Monthly | 2006 to Q3/2023\*

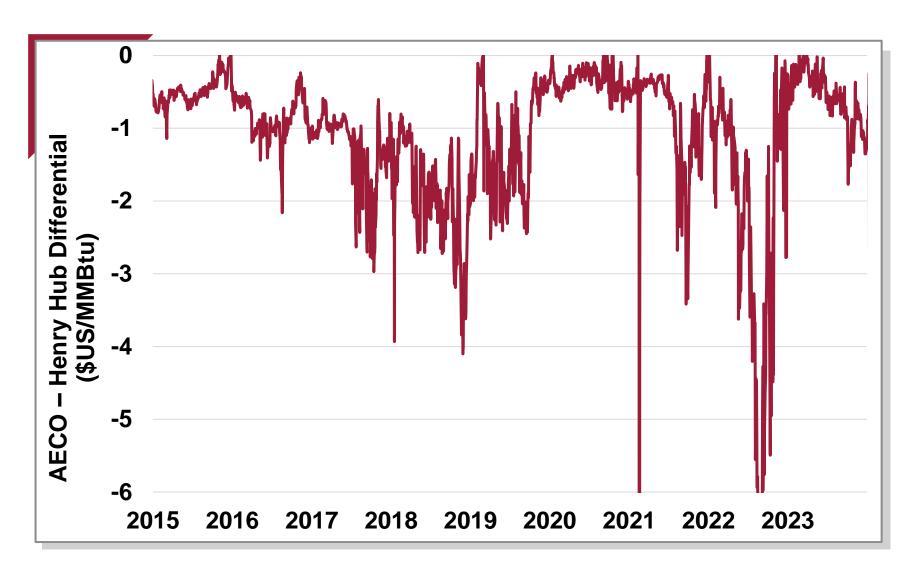


- NGTL export constraints were partially driven by a shift in where natural gas is produced.
- The NGTL System is split into five regions. The NW region is called the Upstream of James River area (USJR). This area is home to the most prolific shale plays. Over the past 15+ years, gas production in the area has nearly doubled.
- Capacity has also grown substantially, but at times, has lagged the significant supply growth, leading to constraints that impacted prices.
- A large capacity addition at the end of 2022 has helped to relieve these constraints.

\*2023 data is up to Sep 2023

Source: Canada Energy Regulator

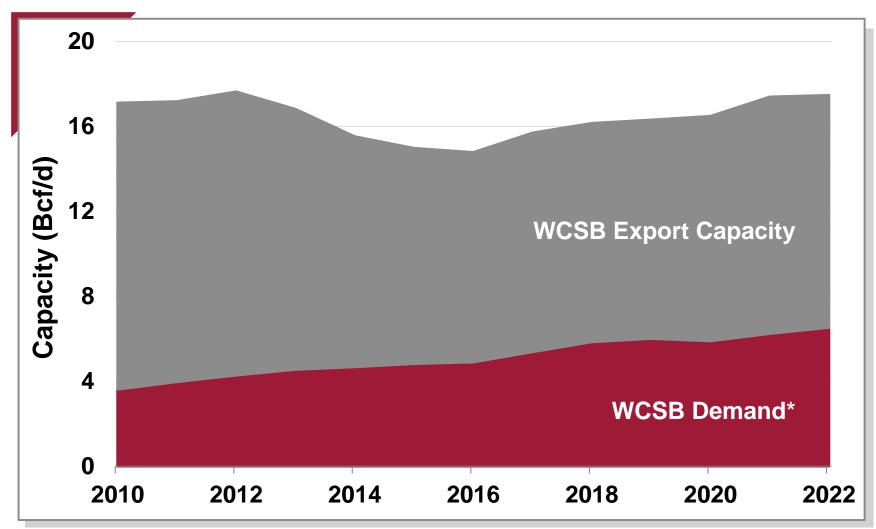
## **AECO Differential | Daily Spot Price | 2015 to Dec 2023**



- During periods of pipeline capacity constraint, price discounts at the AECO hub (Alberta's main pricing point) relative to Henry Hub grow dramatically. This is measured by the AECO differential, where a negative value indicates AECO prices are lower than Henry Hub.
- Pipeline constraints were partially driven by a shift in where natural gas is produced, as production in NW Alberta and NE BC has nearly doubled over the past 15+ years. Capacity has grown substantially, but at times, has lagged the significant supply growth.
- Since the NGTL expansion in late 2022, differentials have narrowed, while initiatives undertaken on the NGTL System to improve access to storage during curtailments also seem to be helping.

Source: Bloomberg

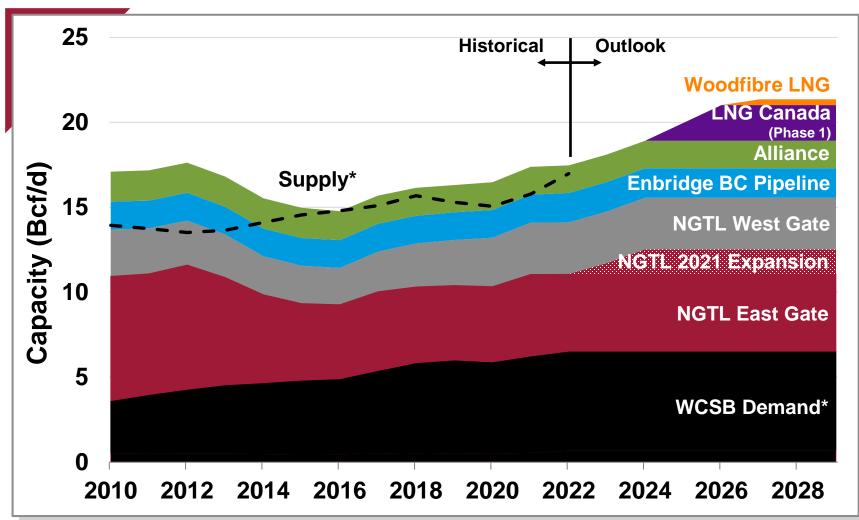
# WCSB Natural Gas Demand and Egress Capacity | Annual | 2010 to 2022



- Demand for natural gas in the provinces that make up the Western Canadian Sedimentary Basin has grown over the past decade.
- This growth has been driven primarily by increased use in the oil sands and the switch from coal power generation towards cleaner-burning natural gas.
- Higher domestic demand in Western Canada has supported production increases even during periods of export constraints.

Source: Canada Energy Regulator, Alberta Energy Regulator, BC Ministry of Farming, Natural Resources and Industry
\*WCSB supply and demand are shown for only Alberta and British Columbia, as major export capacity constraints occur west of Saskatchewan

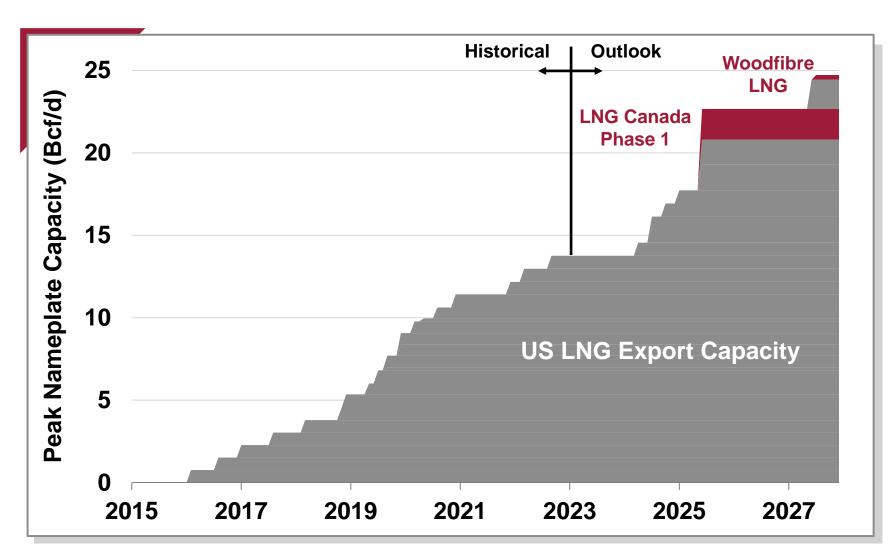
#### WCSB Natural Gas Demand and Egress Capacity vs. Supply | Incl. Expected Export Capacity | Annual



- Since the mid-2010s, supply has often approached export capacity, but the situation should improve going forward.
- The NGTL Expansion Project, which came online in late 2022, increased capacity throughout the NGTL System and relieved export constraints.
- The next major increase in capacity will come when LNG Canada comes online, followed by Woodfibre LNG. Other future LNG projects have yet to reach a final investment decision.
- These projects will allow Canadian gas to reach global markets amidst growing LNG demand.

Source: Canada Energy Regulator, AER, BC Ministry of Farming, Natural Resources and Industry, LNG Canada, Woodfibre LNG \*WCSB supply and demand are shown for only Alberta and British Columbia, as major export capacity constraints occur west of Saskatchewan Outlook only shows NGTL 2021 Expansion (1.45 Bcf/d) and Post-FID LNG projects. Demand and other pipes assumed to equal 2022

#### **North American LNG Export Capacity | Operational and Under Construction**



- Since 2016, the US has added ~14 bcf/d of operational LNG nameplate capacity via 20 export facilities, and an additional ~9 Bcf/d of capacity is under construction.
- Comparatively, only two projects in Canada are currently under construction equating to ~2 Bcf/d of nameplate export capacity. Additional projects are proposed and awaiting FID.
- Due to the interconnected North American gas market, Canadian gas was exported from US LNG terminals for the first time in 2023. Select Canadian natural gas producers have signed +0.4 Bcf/d of long-term supply agreements with LNG facilities in the US Gulf Coast.

Source: Energy Information Administration, Canada Energy Regulator, Company Reports

# **Selected West Coast Canada LNG Projects Under Development**

#### **LNG Canada**

- **Location**: Kitimat, BC
- Export Capacity: Phase I 1.8 Bcf/d, Phase II 1.8 Bcf/d
- **Pipeline**: Coastal GasLink (complete late 2023)
- Project Proponents: Shell, PETRONAS, PetroChina, Mitsubishi Corporation and KOGAS
- **FID**: Phase 1 (Oct 1, 2018), Phase 2 TBD
- Commercial operation date: Est. 2025

#### **Cedar LNG**

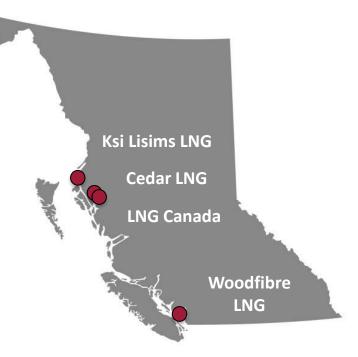
- **Location**: Kitimat, BC
- Export Capacity: 0.4 Bcf/d
- **Pipeline**: Coastal GasLink (complete late 2023)
- **Project Proponents**: Pembina, Haisla Nation
- FID: Early 2024; EPC contract for floating LNG unit awarded in January 2024 - LINK
- Commercial operation date: Est. 2028

#### **Ksi Lisims LNG**

- Location: Wil Milit, BC
- **Export Capacity**: 1.6 Bcf/d
- **Pipeline**: TC Prince Rupert Gas Transmission
- Project Proponents: Nisga'a Nation, Western LNG, Rockies LNG (Canadian producer consortium)
- FID / Commercial Operation Date: TBD; Environmental Assessment Certificate application filed; Announced in Jan 2024 a signed 20-year LNG sale and purchase agreement with Shell



- **Location**: Squamish, BC
- Export Capacity: 0.29 Bcf/d
- **Pipeline**: Eagle Mountain (under construction)
- **Project Proponents:** Pacific Energy Corporation, Enbridge Inc.
- Notice to Proceed: April 2022
- Commercial operation date: Est. 2027



Source: Canada Energy Regulator, LNG Canada, Cedar LNG, Woodfibre LNG, Ksi Lisims LNG

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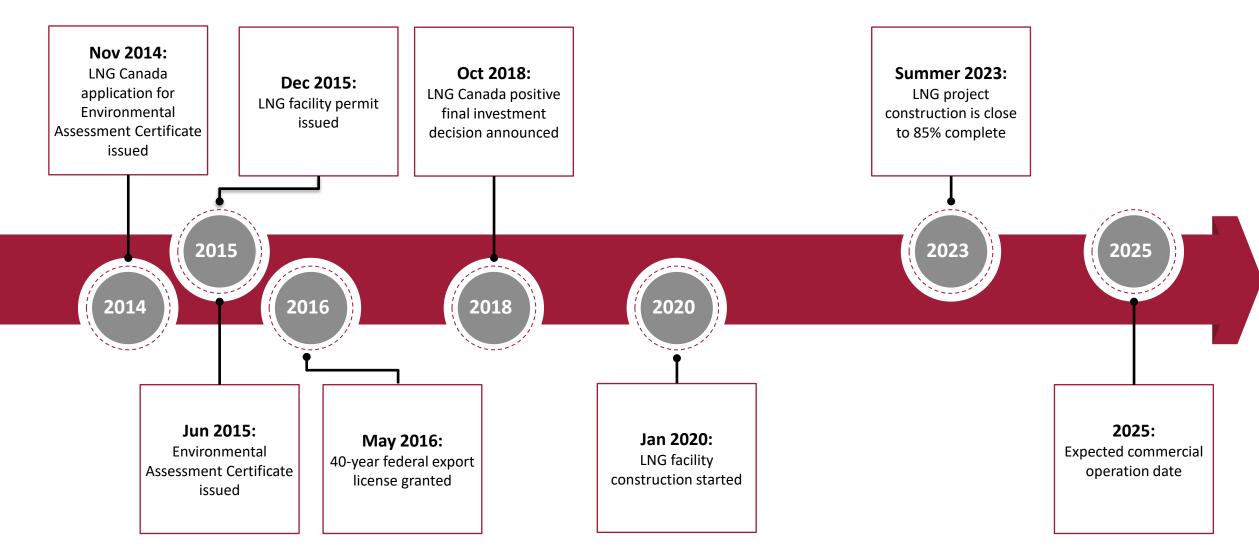
# **LNG Canada Project Overview**



- Location: Kitimat, BC
- Capacity: Phase I 1.8 Bcf/d, Phase II 1.8 Bcf/d
- Feedgas Requirement: Phase I 2.1 Bcf/d, Phase II
   TBD
- **Pipeline:** Coastal GasLink (complete late 2023)
- Project Proponents: Shell, PETRONAS, PetroChina, Mitsubishi Corporation and KOGAS
- **FID:** Phase 1 (Oct 1, 2018), Phase 2 TBD
- Commercial operation date: Est. 2025
- Project Description: LNG Canada will bring BC and Alberta natural gas to the West Coast for sale in higher-priced Asian markets. LNG Canada is the largest private sector investment in Canadian history.

Source: LNG Canada

# **LNG Canada Historical Timeline – Key Dates**



Source: Canada Energy Regulator, LNG Canada