

# Key Issues: Legislative and Policy Actions for Alaska LNG

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# Agenda

## Topics to be covered

- Scene Setting
- State Participation in Project Success
- Canadian Pacific Coast Projects
- Phase I Gas Pipeline Considerations
- Market Backdrop for Enabling Legislation



# Scene Setting



# Scale and Impact

- 20 Million Tonnes Per Annum (MTPA)
  - 1 billion therms per annum
  - Typical delivered price in Asia \$11/MMBtu
  - \$11 bn per annum

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- LNG Revenue relative to GDP
  - Alaska ~20%
  - Compared to Texas <0.5%
  - LNG Canada boost of 3% for BC
    - Estimated Provincial revenues of \$78 Bn by 2064
    - Supporting 71,000 jobs

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- 35 trillion cubic feet (Tcf) of proven gas\*
- Potential delivered LNG revenue of over \$400 Bn
- Significant potential upside of further 200 Tcf of gas
  - Equivalent to over \$2Trillion

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- Capital deployment for AK LNG is almost exclusively **in midstream**
- Gas cost and shipping may equate to under 20% of cost of gas sold
  - In Texas this figure is nearer to 60%

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# Exposure to Capital Costs

- Compared to US Gulf Coast projects, the majority of the cost of delivered LNG from Alaska will relate to capital investment.
- Thus, the value of the delivered gas is underpinned predominantly from the infrastructure costs, not the upstream gas production.
- Robust cost estimation for FEED and exemplary project management of the EPC contract are thus essential.

US\$	Alaska \$/MMBtu	Gulf Coast \$/MMBtu	LNG Canada \$/MMBtu
Cost of Gas	1.00	4.23	2.00
Fuel Cost	-	0.63	-
Processing, Pipeline and Liquefaction*	<b>9.30</b> <b>(84%)</b>	<b>3.79</b> <b>(34%)</b>	<b>8.30</b> <b>(75%)</b>
Shipping	0.75	2.40	0.75
Delivered Gas Price	11.05	11.05	11.05

Source: GaffneyCline analysis. Based on forward prices for December 2025, taken on 11<sup>th</sup> November

*For AK LNG, midstream risk is high, but  
upstream risk is low;  
not typical of all LNG projects*

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# State Participation in Project Success

# Nature of Fiscal / Legislative Package

- Fiscal and legislative package has three purposes
  - Risk sharing between government and project sponsor
  - Clarify tax burden/level of government take
  - Detail regulatory requirements/allowances and state involvement
- Legislation / fiscal framework needs to be stable, transparent and potentially flexible to project performance and market conditions
  - Allowances and/or progressive fiscal elements are commonly incorporated
- State participation creates opportunities for risk sharing and value creation.

*Project specific enabling legislation is common  
for LNG projects*

# Primary Goals of State and Project Developers

## State Objectives:

- Realize appropriate level of value from hydrocarbon resources
  - Complex consideration that requires private capital and marketing
- Utilize state benefits based on government priorities
- Ensure energy security and optimal management of resources
- Enable economic activity and job growth
- Oversee that environment and safety standards are maintained

## Developer Objectives:

- Achieve appropriate level of shareholder returns
- Grow in a globally competitive LNG supply
- Serve customers and strengthen relationship
- Generate reliable business case and forecasts
  - Requiring fiscal understanding and stability over life of project

Existing examples of LNG enabling legislation can be used to guide approach for AK LNG



# Fiscal Stability

- Fiscal Stabilization is a contractual or legal provision that guarantees investors protection against adverse legislative changes to the originally envisioned economic terms during the life of a project
- Higher commitment of capital and longer project time horizons result in greater emphasis on fiscal stability

## **Fixed Terms “Tax Freeze”**

The tax system applicable at the time of signing remains unchanged for the project life specified in law or contract.

- Qatargas I & II
- Papua New Guinea (PNG)
- Sakhalin LNG
- LNG Canada

## **Economic Equilibrium Stabilization**

If tax changes are introduced, the government makes other beneficial adjustments or otherwise compensates investor to retain the original economic impact.

- Mozambique
- P’Nyang LNG (PNG)
- Grande Tortue Ahmeyim (GTA)

# Importance of Fiscal Stability in LNG (Investors)

- **Maarten Wetselaar – Shell Integrated Gas and New Energies Director**

“The support from British Columbia and the federal government was critical in making LNG Canada competitive globally. Without these measures, the economics would have been very challenging given the scale and complexity of the project.”

- **Ryan Lance – Chairman & CEO, ConocoPhillips**

“For LNG projects of this scale, fiscal stability is non-negotiable. Governments that provide predictable frameworks and competitive terms enable us to commit billions in capital with confidence.”

- **Tera Shandro – Chairperson & Managing Director, ExxonMobil PNG**

“The signing of the Fiscal Stability Agreement is a milestone step in advancing the P’nyang LNG Project. It sends a strong signal to investors that Papua New Guinea is committed to creating a stable and competitive environment for long-term resource development.”

- **Johanna Boothey – SVP Commercial Development, ExxonMobil PNG**

“Fiscal stability agreements are critical for projects like P’nyang . They provide certainty over decades, which is essential when making multi-billion-dollar investment decisions.”

# Importance of Fiscal Stability in LNG (Host Nation)

- **Prime Minister James Marape, March 18, 2024, at the signing of the P'nyang LNG Fiscal Stability Agreement**

“The signing of the Fiscal Stability Agreement is a proof of PNG's dedication to fostering increased economic activities, and to send a positive signal to investors in the extractive sector.”

**Minister of State for Energy Affairs, Saad Sherida Al-Kaabi, speaking at the 2025 Doha Energy Forum:**

“Long-term fiscal stability is the cornerstone of Qatar's LNG strategy. It gives our partners the confidence to invest billions over decades, knowing that the rules won't change midstream.”

# Fiscal Stability – Examples of Disputes

Case	Host Country	Fiscal Change / Issue
Yemen LNG v. Yemen	Yemen	Imposition of extra taxes beyond PSA terms
NLNG v. Nigeria	Nigeria	Withdrawal of tax holidays, new levies
Peru LNG	Peru	Export tax and royalty changes
Egypt LNG (Idku/Damietta)	Egypt	Renegotiation of fiscal terms, gas diversion

# Property Tax Impact

- Due to the capital and time required to develop the pipeline and facilities, taxes and duties that are implemented at early stages of the project can have a disproportionately adverse effect on the economic value and returns
  - It is common for other jurisdictions to offer holidays or exemptions on early taxes/duties/levies like import taxes, VAT, etc.
- Thus, Alaska's Property Tax is one of the biggest potential burdens on project economics
- At \$1/MMBtu it could represent a similar cost to the gas supply into the processing plant
- If the project were to start in phases, impact likely to be higher
- Considerable work carried out to assess a Payment in Lieu of Tax in the 2015–2017 timeframe

Feature	Impact
Assumed Capital	\$50 Bn
Initial tax burden*	\$1 Bn
Cost Impact	\$1/MMBtu
% Increase to Delivered Cost of LNG	9%

Source: GaffneyCline analysis, percentage price impact based on JKM forward price for December 2025. \* Based on 2% tax on capital value in year 1



# Federal Loan Guarantee

- Federal loan guarantees will reduce the cost of debt for the LNG project
- Material benefit given size of capital outlay
- Exact terms and debt arrangements will determine impact
- Likely to be in the \$0.3–0.4/MMBtu range
- Amounts to 3 – 4% on cost of delivered gas \*\*

Feature	Metric	Annual Cost	Levelized Cost*
Assumed Debt	\$30 Bn		
Assumed Interest rate without credit support	6.5%	\$1.95 Bn	\$2.7 Bn
Assumed Interest rate with credit support	5%	\$1.5 Bn	\$2.4 Bn
Annual saving		\$450 m	\$300m
Saving in Cost of Delivered Gas		\$0.45/MMBtu	\$0.3/MMBtu

Source: GaffneyCline analysis,

\*Including amortization and repayment over 20 years

\*\* based on December 2025 JKM futures price. Effect of loan guarantee assumed to be a reduction of 1.5% in cost of debt, based on prior AGDC/Woodmac presentations.

# Relationship of Oil and Gas Production

- Mature fields commonly transition from liquids-dominated production to gas focused production at later stages of asset life (e.g. “gas cap blowdown”). Commercial framework and physical infrastructure is needed to capture this opportunity
- Reservoir management factors will affect the relationship between oil and gas production
- Reservoir management for optimum value will be key as Prudhoe Bay moves towards higher gas production
- Gas development is typically less profitable compared to liquids which may merit reconsidering upstream tax and royalty arrangements to enable investment, benefiting all parties
- Assessing these factors is likely to be a complex and detailed process involving a range of modelling, with input from oil/gas producers, AOGCC and other bodies

# Carbon Capture

- Latter phases of LNG will require growing processing capability to remove CO<sub>2</sub>
- HB50 passed in 2023 provides a framework for Carbon Capture, Use and Sequestration (CCUS)
- Combination of federal tax credits (45Q) and customer demand for lower carbon LNG provides an economic driver.
- Credits for Enhanced Oil Recovery (EOR) increased in Federal HR 1.
- Gulf Coast projects have to remove CO<sub>2</sub> from pipeline gas, however, AK LNG CO<sub>2</sub> content is much higher. Many are investing in CCS due to customer demand.
- Potential additional benefit from reducing carbon intensity of North Slope oil production.
- For a 2 million tonne carbon capture plant, at \$85/tonne of tax credit, the benefit to AK LNG could be 17c/MMBtu of delivered LNG\*.

# Fiscal Incentives and Stability (US examples)

Incentive Type	State	investor benefit /duration	LNG example(s)
<b>Property tax abatement</b>	Louisiana	Up to 10 years; examples in billions	Sabine Pass (\$4.9B), Cameron LNG (\$3.7B), Calcasieu Pass (\$2.9B)
<b>Property tax abatement</b>	Texas	Up to 100% for 10 years	All Texas LNG projects in scope have Ch.312 deals; Corpus Christi LNG also under Ch.313
<b>School district value limitation</b>	Texas	10 years (program expired 2022)	Corpus Christi (\$762M), Port Arthur (\$694M), Freeport (\$447M), Golden Pass (\$235M)
<b>PILT (Payment in Lieu of Taxes)</b>	Maryland	\$60M/yr (2023 to 2038); earlier PILT ~\$55M/yr (2013 to 2023)	Cove Point LNG (Calvert County)
<b>Sales &amp; use tax exemptions</b>	Louisiana	Ongoing statutory exemption	LNG terminals as manufacturers may qualify for tax exemptions on equipment
<b>Sales &amp; use tax exemptions</b>	Texas	Ongoing statutory exemption	LNG terminals classified as manufacturing may qualify
<b>Payroll/income tax rebates</b>	Louisiana	Up to 10 years; also reported \$492M aggregate to LNG in LA	Louisiana LNG terminals have QJ deals totaling ~\$492M
<b>Deal-closing cash grant</b>	Texas	Varies by project; paid post-performance	Available statewide; case-specific
<b>Port tariffs/leases (case-by-case)</b>	TX/LA (e.g., Port of Corpus Christi)	Case-by-case via tariff or lease	Not project-specific; demonstrates mechanism

# Global Benchmarking

Country	Tax Concessions	Fiscal Stability Mechanism
<b>Papua New Guinea</b>	Reduced corporate tax rates, accelerated depreciation	Formal FSAs guaranteeing no adverse changes
<b>Nigeria</b>	Tax holidays, duty exemptions	NLNG Act prohibits unilateral fiscal changes
<b>Qatar</b>	Low royalty and corporate tax rates, no export duties	Long-term PSAs and government commitments. Taxes are fixed at outset.
<b>Mozambique</b>	Customs and VAT exemptions	Stability clauses in contracts
<b>Australia</b>	Accelerated depreciation, cost deductibility	PRRT framework and policy consistency
<b>Russia</b>	Zero mineral tax, export duty exemptions, Arctic incentives	PSAs and tax stability clauses
<b>Oman</b>	Tax holidays (25–30 years), customs exemptions	Shareholder agreements and gas supply contracts
<b>Indonesia</b>	Tax holidays (up to 20 years), tax allowances, depreciation	PSC terms with stabilization clauses
<b>Malaysia</b>	Pioneer Status, Investment Tax Allowance, customs exemptions	PSC terms with PETRONAS provide predictability
<b>Senegal</b>	CIT reduction to 15%, VAT/customs exemptions	Investment Code guarantees and Special Economic Zone protections
<b>Peru</b>	Customs/VAT exemptions, accelerated depreciation, Research & Development deductions	State contracts and concession agreements
<b>Brunei</b>	100% income tax exemption, customs duty exemptions	Long-term agreements with Brunei LNG and government guarantees
<b>Trinidad &amp; Tobago</b>	10-year tax holiday. Accelerated capital allowances, petroleum tax incentives	PSC terms and LNG-specific agreements

PSA/PSC: Production Sharing Agreement/Contract, a framework for hydrocarbon development that enables cost recovery; FSA: Fiscal Stability Agreement; PRRT: Petroleum Resource Rent Tax, a tax on profits considered above typical rates of return; VAT: Value Added Tax.



# The Path to FID

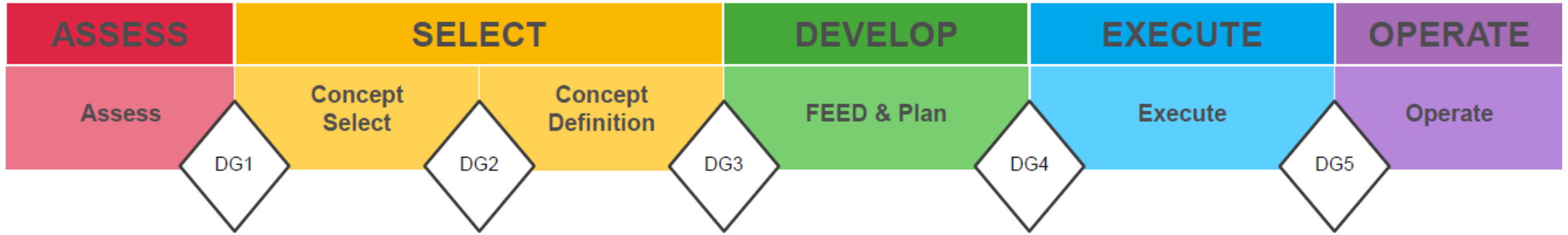
# FID Pre-requisites

To take FID, key aspects of the AKLNG project must be considered:

- Phase 1 will comprise the pipeline transporting gas to the state domestic market
- Subsurface (gas availability) risk is low
- Facilities capital costs are high and a dominant part (84%) of the overall cost of supply

The FID decision package must provide coverage of all project work streams to demonstrate readiness to proceed.

# Project Management Framework Pre-FID



Large projects are typically managed within a “Stage-Gate” process where project phases are controlled at “Decision Gates” (DG). FID is normally taken at DG4. The DG support package will address:

- Project technical scope (project specification, key design documents)
- Cost and schedule- base, risk analysis, contingencies, and allowances
- Project execution plan- staffing, contracting, procurement, logistics, etc
- Legal, permits, and regulatory framework
- Commercial framework, economics, and business case
- Financing- phasing, coverage, risk management, assurance, etc.
- Stakeholder management

# Factors Affecting Pre-FID Schedule

The time required for the “Select” and “Develop” (or Define) phases can vary widely, depending on:

- Project economic attractiveness– highly profitable projects can take FID quickly, marginal projects often require better definition and may have to recycle back to through concept selection
- Project non-technical aspects (regulatory, stakeholder, financing) are affected by external influences
- Project scale, complexity, and innovation

Upstream mega-project Pre-FID phase can vary from less than 4 years to over 50 years

# Legislative Action likely to be needed Prior to FID

- Before FID is taken, legislative action may be required in a number of key areas including:
  - Reconsideration and clarification of LNG specific Property Tax statutes, other potential duties/levies, corporate income taxes and accounting treatment
  - Any required LNG specific permitting and regulatory definition
  - Fiscal stability
  - Oil and gas production tax and royalty
  - Equity investment in the LNG project
- With respect to the Phase I pipeline, other pre-FID features may include:
  - Tariff setting for gas supplies to Southcentral and the Interior
  - Credit support or other mechanisms considered appropriate
  - Detailed implementations of the “Alaska Advantage” principles, including tariff allocation between in-State gas requirements and LNG feedstock flow



# Negotiations and Open Book Economic Models

- Developments or contracts that are material/important to a host government often merit direct negotiation between the project sponsors and government team to align on appropriate legal and tax elements in order to enable timely investment
- In such circumstance, an “Open Book Economic Model” (OBEM) is often a useful to facilitate such negotiations
- Typically this economic model is generated by the operator and shared between the Contractor and Government parties in order to:
  - Align and understand production, cost and economic assumptions
  - Illustrate the cash movements, calculations and economic expectations over the project life, including the project’s economic indicators to the investor
  - Highlight material value drivers and the value impact of variations to underlying assumptions and the fiscal burden
  - Support transparent discussions on reasonable fiscal burdens and commitments

# Canadian Pacific Coast Projects

# Similarities between Canadian LNG projects and Alaska

- The Canadian and Alaskan business model and economics are similar; thus, many lessons can be derived from projects in BC
- The competitive features of the project stem from **low-cost gas** and **low-cost shipping**
- Core infrastructure includes a costly long gas pipeline across varied terrain.
- Canada and Alaska are both seeking to meet demand for Eastern Pacific LNG sources (perceived as adding to supply diversity, and absence of security risks)
- Targeting major growth in Asia Pacific LNG demand

Shell CEO **Wael Sawan** June 2025

Western Canadian wholesale Natural Gas Price  
History/Forecast



Source: GaffneyCline analysis

*What is particularly attractive about LNG Canada... is the differential between AECO and Henry Hub, not to mention the proximity to Asia,...*

# LNG Summary

## Canadian Pacific Coast

### KSI Lisims LNG – 12 MTPA

- Fiscal support but no formal stability mechanism
- Offtake:
  - Shell 2MTPA
  - TotalEnergies 2MTPA + equity

### LNG Canada – 14 MTPA

- Fiscal support and stability mechanism
- Up to 28 MTPA with Phase 2
- Train 1&2 now operational

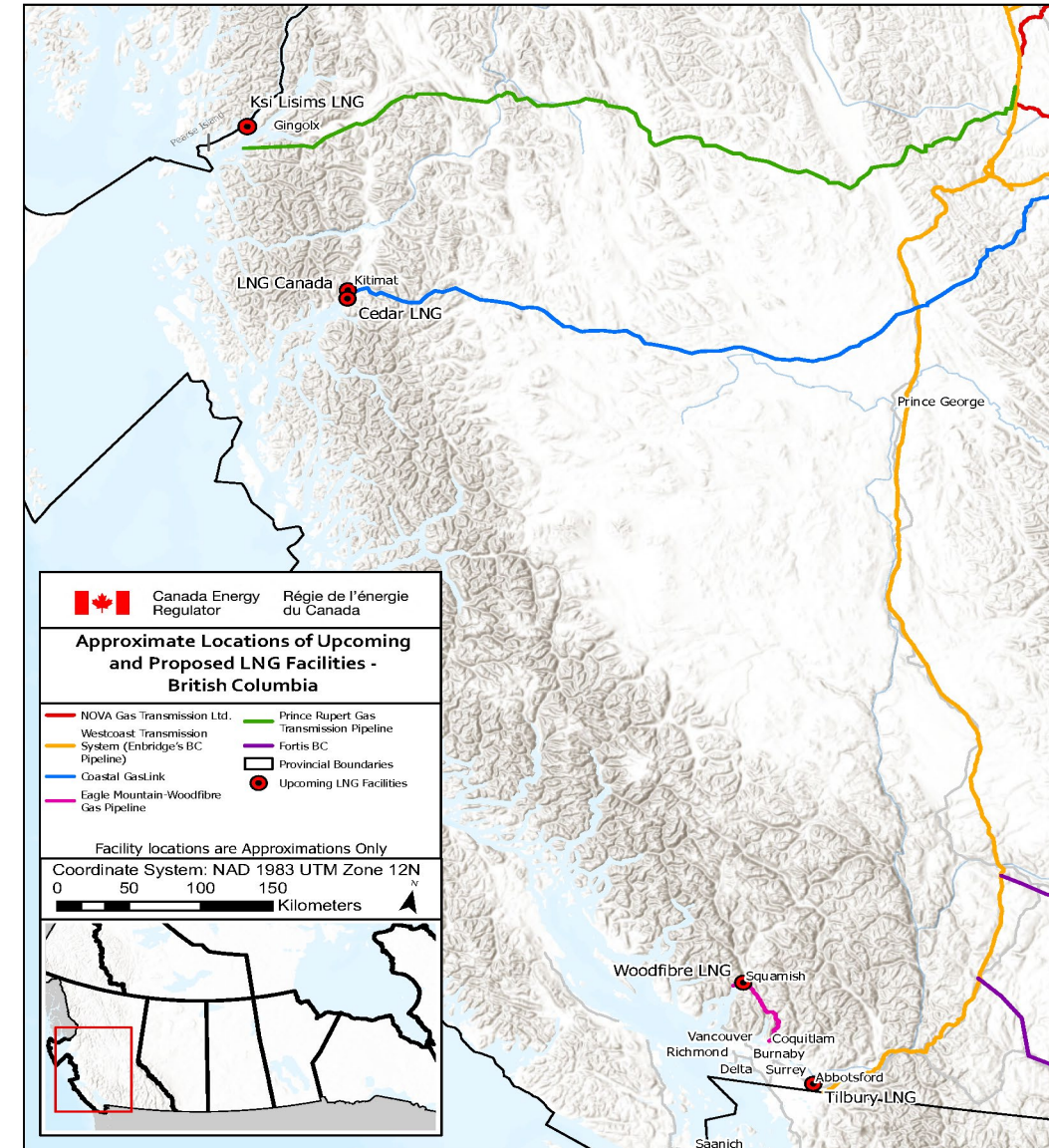
### Cedar LNG – 3.3 MTPA

- Fiscal support but no formal stability mechanism
- Petronas 1MTPA tolling capacity
- ExxonMobil/ARC 1.5 MTPA

### Woodfibre LNG – 2.1 MTPA

- Under Construction, expected completion in 2028

**Over 30 MTPA under development or operating plus additional 14 MTPA from LNG Canada Phase II**



The map is a graphical representation intended for general informational purposes only. Map produced by the CER, August, 2024. Last updated on Aug 01

# Lessons from LNG Canada

- Discussions **commenced in 2013** but final fiscal package **agreed March 2018** with FID **October 2018**
- Key features of enabling legislation:
  - **Natural gas tax credit** for LNG development in British Columbia.
  - **Repeal** of the Liquefied Natural Gas Income Tax Act
  - **Discounted electricity** prices
  - BC carbon **tax exemptions**
  - A **natural gas credit** against corporate income tax
  - **Deferral of provincial sales tax** on construction
  - **Federal tax breaks** / accelerated **depreciation**
  - **Fiscal stability**
- Estimated benefit: Federal **C\$1.8bn** Provincial **C\$2.16bn\***

\* <https://canadian-accountant.com/content/business/lng-risks-public-purse-report>



# Phase I Gas Pipeline Considerations

# Phase I Gasline Comparisons

Project	Pipeline (owner)	Length	Diameter	Design capacity	Estimated capital cost
AK LNG	AGDC / Glenfarne	~807 miles (1,297 km)	42 in	~3.3 bcf/d	~US\$10.7B*
Ksi Lisims LNG	Prince Rupert Gas Transmission (Western LNG & Nisga'a Nation)	~560 miles (~900 km)	Up to 48 in	~2.0–3.6 bcf/d	~US\$4.4– 5.0B*
LNG Canada	Coastal GasLink (TC Energy)	~416 miles (670 km)	48 in	2.1 to 5 bcf/d	~C\$14.5B**

\* Historical estimates

\*\* Approx. final cost

- AK LNG gasline subject to tariff setting mechanism owing to rate case requirements for in-state supply
- LNG Canada/TC Energy – private negotiation of tariff terms, commercially driven
- Ksi Lisims pipeline may be integral feature of project

# Phase I Tariff Considerations

- Pipeline capital, operating costs and escalation risk
- Committed, expected and growth case throughput
- Customer differentials (domestic, export, volume-related, etc.)
- Tariff cover- capital costs and/or operating costs
- Other project revenue sources (e.g. gas sales)
- Escalation provisions and controls
- 3<sup>rd</sup> party access provisions
- Phase 2 (LNG export phase) timing

Phase 1 will have high CAPEX (42" x 807 miles, \$10.5 bn), low operating costs, and low throughput (domestic only), with large Phase 2 upside potential. Mechanisms to amortize costs over Phase 2 may be needed.

# Phase I Gasline Concept

## Benefits:

- Mitigation of forecast gas shortages in Southcentral
- Potential step in securing lower cost energy for Southcentral and Interior
- Reducing the economic and technical risk of a full-scale LNG export project
- Enhanced energy security for the state

## Features to address:

- Gas supply and agreements
- Timeframe of exposure to initial pipeline tariff
- Potentially complex rate filing/tariff setting through RCA process or other mechanism.
- Resolution of cost sharing mechanisms relating to “Alaska Advantage Principles”

# Phase I Gasline Structure

Regulatory, commercial, and legislative considerations will determine the gas sales structure:

1. Utilities, power generation and Industrial buyers purchase gas direct from North Slope producers, enter into transportation service agreement with the gasline owners.
2. Gas and transportation is bundled, and gas is sold to utilities etc at various delivery points off the pipeline.
3. Potential formation of a special purpose company for gas sales.
4. Consideration may be given to state involvement in any of these concepts

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# **Market Backdrop for Enabling Legislation**

# Supply / Demand Factors

## Supply

- Over **174 million metric tons (MT) per year** of LNG capacity is under construction, with major additions from the U.S., Qatar, and Canada.
- Global LNG supply could rise by **30 MT (≈7%) in 2026**, the largest annual increase since 2019.
- LNG liquefaction capacity is projected to increase by **~42% by 2030**, reaching about **594 million tons/year**.

## Demand

- Demand is forecast to grow **~56% by 2035** (Woodmac).
- Global demand for Natural gas (including LNG) to **grow 10–15%** through 2050 (IEA).
- Global LNG demand to rise **~60% by 2040**.
- **Asia Pacific** is the main growth area for demand. (**70% of demand growth**).

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# Questions?