

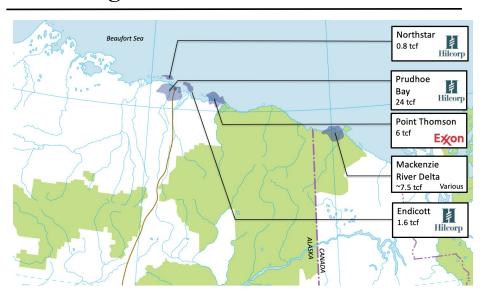




Arctic LNG is a proven concept

- Proven gas reserves of 32+ TCF across gas fields in the Alaskan North Slope with probable gas reserves of 100+ TCF
- Yamal LNG in Russia has proven the economic viability of Arctic LNG using icebreaking LNG carriers to export LNG throughout the year
- Arctic North American reserves closer to Asian end markets compared to Gulf of Mexico (via Panama) and Northern Russian coast (2,000 miles shorter distance than Yamal)
- NSLNG concept provides a number of advantages:
 - Uses incremental liquefaction plants built in a shipyard and floated into place
 - Minimal infrastructure required and standardized equipment
 - Scalability
 - 4 to 6 MTPA units
 - Design one, build many

Stranded gas reserves in North American Arctic



Significantly shorter distance to Asian markets





MTPA

Yamal LNG (existing) 18 MTPA

Proposed Russian Arctic LNG projects:

	IVITE
Arctic LNG 2 (Novatek)	20
Arctic LNG 1 (Novatek)	13
Ob LNG (Novatek)	7
Taymyr LNG (Rosneft)	30-50
Kara LNG (Rosneft)	<u>30</u>
Total (inc. Yamal)	120-140

LNGC cargoes: 5-6/day







The Impacts of Covid-19

The pandemic had a dramatic negative effect on global energy markets:

- 1. Collapse in spot LNG prices falling to a low of \$2/mmBTU in summer 2020
- 2. International travel curtailed difficult to meet face-to-face with overseas investors and LNG buyers

The Global market for gas and LNG had radically changed in the past 4 weeks:

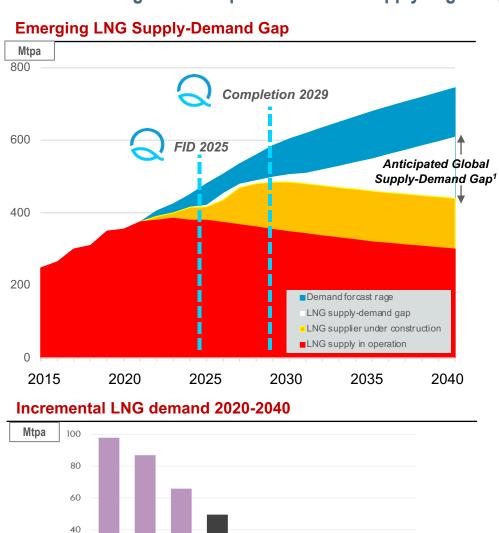
Consequences of the Russian invasion of Ukraine:

- 1. Germany canceled the Nord Stream 2 pipeline and will now build 2 LNG import terminals
- 2. Huge spike in spot LNG prices to record \$60/mmBTU during 1st week of March
- 3. LNG cargoes from US Gulf Coast to Asia diverted mid Pacific to Europe
- 4. Drive for more Long-Term LNG contracts to avoid risk of volatile spot prices
- 5. Increased European and Asian demand for North American LNG to reduce reliance on Russian gas
- 6. Increased opportunity for Alaska to supply Asian markets (USGC gas to Europe)

Qilak LNG is Positioned to Benefit From the Anticipated LNG Supply-Demand Gap



Longer-term global GDP growth, particularly in hydrocarbon-poor countries, will continue to support LNG growth, with need for significant expansion of LNG supply beginning in 2025

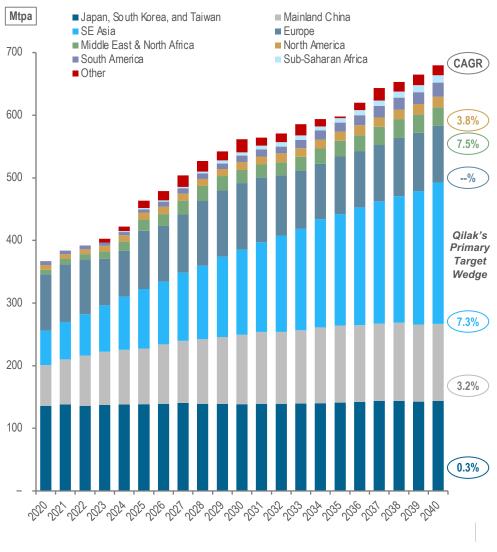


China Bunkering Other

M East S America NE Asia

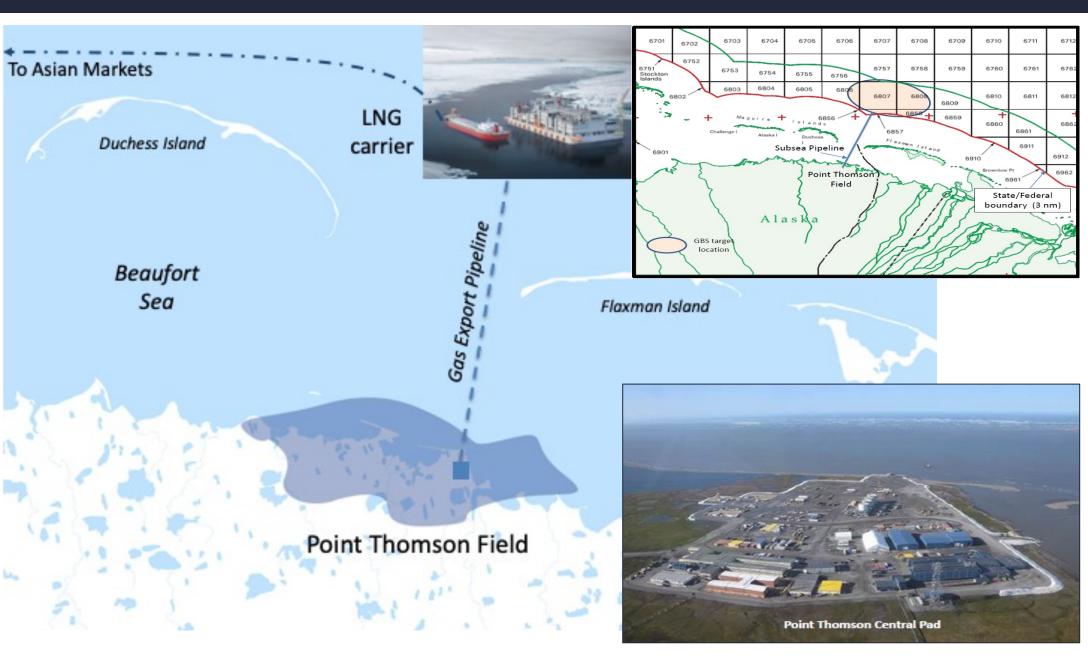
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LNG Demand Growth Through 2040



Qilak LNG Terminal location





 Qilak LNG 1 proposes a Gravity Based Structure (GBS) 6-9 miles offshore Point Thomson, with site selected for navigability (water depth) and avoidance of subsistence whale hunting

LNG Shipping Solution for Arctic Waters – A Proven Concept









- The Yamal LNG project has 15 Mk 1 vessels in operation. Another 21 of the Mk 2 design will be required for the Arctic LNG 2 project
- Qilak LNG will require 3 to 5 vessels depending on LNG destination

Asia's Closest U.S. Source of Natural Gas to be Offered by Alaska



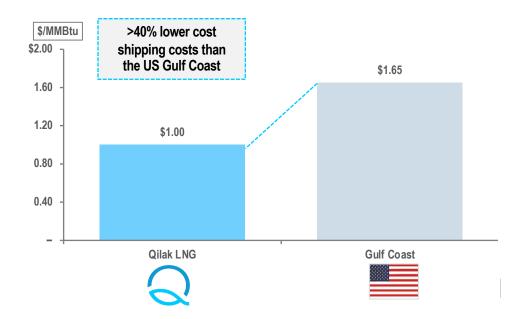
Lower upstream costs from a prolific conventional source and proximity to Asian demand provide a differentiating LNG proposition

Qilak LNG is ~2,000 Miles Closer to Market than Yamal

~7,000 Miles ~5.000 Miles 21 days summer 14-18 days transshipment2 United States -10,000 Miles ~26 days **LNG Hubs** ★ North Slope, AK ★ Sabine Pass, TX ★ Incheon, South Korea ☆ Yamal, Russia

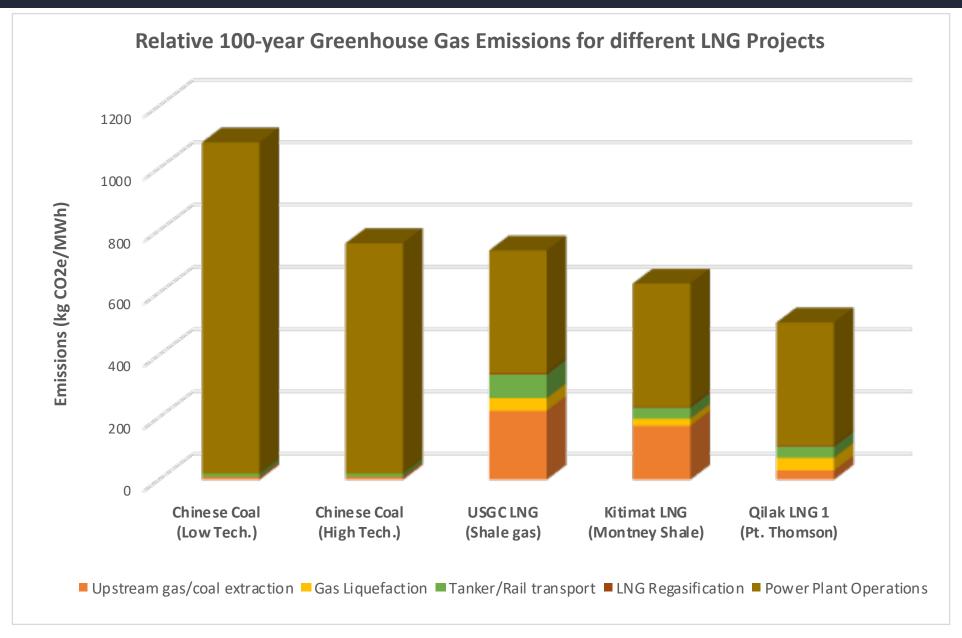
Qilak LNG Shipping Costs Superior to USGC LNG

- 50% shorter route to Asian markets
- Avoids the Panama Canal fees and bottlenecks
- Fewer vessels required due to shorter distance
 - ~5,000 miles from Qilak LNG to Asia
 - ~10,000 miles from USGC to Asia
- Capability to ship year-round has been demonstrated by performance data from Yamal LNG and shipping simulations



GHG Emissions for Chinese Power Generation: Local coal versus LNG sourced from USGC, Kitimat and Qilak LNG





Alaska can provide "greener" LNG than any other North American supplier



Key Issues to be resolved during Feasibility Study

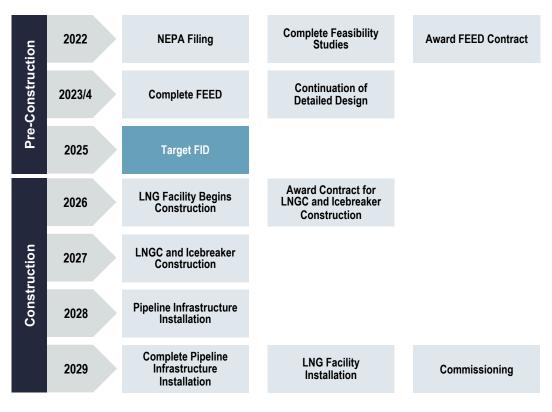
Technical

- 1. Optimal LNG capacity and storage
- 2. Detailed LNGC shipping simulation to determine
 - a. number of vessels required
 - b. optimum vessel configuration (Mk III design)
- 3. Refined project Capital and Operating costs

Commercial

- 1. Build investor consortium
- 2. Negotiate Gas Sales Agreements
- 3. Negotiate LNG Sales Agreements

Project Timeline





LNG Plant Start-Up

First LNG Cargo (Jan. 2030)



"Natural gas is one of the mainstays of global energy. Where it replaces more polluting fuels, it improves air quality and limits emissions of carbon dioxide."

Dr. Fatih Birol, IEA Executive Director