Alaska LNG Update

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Nick Szymoniak, Manager, New Business Ventures Presented to Commonwealth North Energy Policy Study Group February 18, 2022

Alaska LNG System

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North Slope Gas Supply

- North Slope natural gas from Prudhoe Bay and Point Thomson
- Gas is stranded and can be produced at a low incremental cost.

Gas Treatment Plant

- Located in Prudhoe Bay adjacent to existing gas plants
- Removes CO2 and H2S from raw gas stream

Natural Gas Pipeline

- 807-mile pipeline from Prudhoe Bay to Nikiski
- Provides gas to LNG facility and Alaskans

Alaska LNG Facility

- 20 Mtpa LNG facility located in Nikiski
- Converts natural gas to LNG for export to Asia



Alaska LNG Status



Strong Economics

- Alaska LNG has lower costs than its key competitors
- Cost of supply independently verified

Fully Permitted

- Federal government has approved construction of Alaska LNG
- Acquiring permits took significant effort and they are valuable

Environmental Benefits

- Alaska LNG will reduce global greenhouse gas emissions
- LNG will continue to be an important energy source through energy transition



Wood Mackenzie Cost of Supply

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Wood Mackenzie Updated their 2016 Alaska LNG Competitiveness Analysis

- Wood Mac independently calculated Alaska LNG cost of supply
- AGDC took on the recommendations from the 2016 Report to reduce the Cost of Supply

Wood Mackenzie Report verifies that Alaska LNG Cost of Supply is now Competitive

- Transition from 100% equity funding to nonrecourse project finance with a tolling model largest driver of cost reduction
- Since 2016 report, this sort of commercial model has been used to finance the growth of the US LNG industry

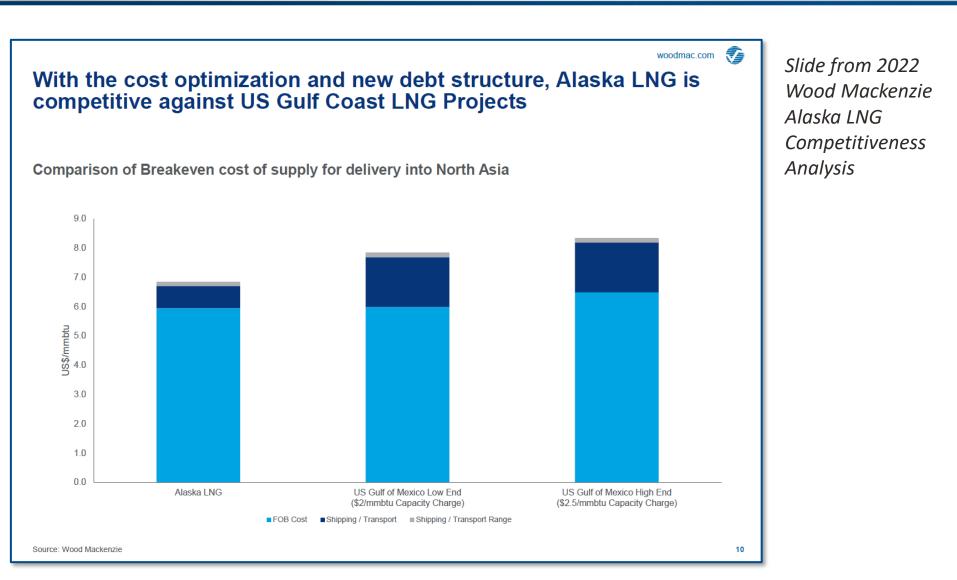
2016 Report



2022 Update

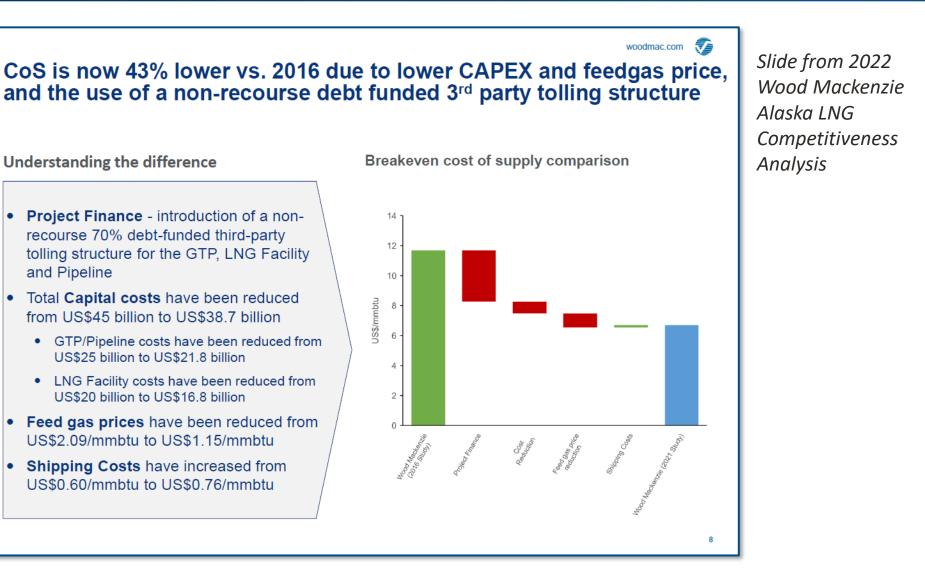


Wood Mackenzie Cost of Supply



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Wood Mackenzie Cost of Supply



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Project Finance

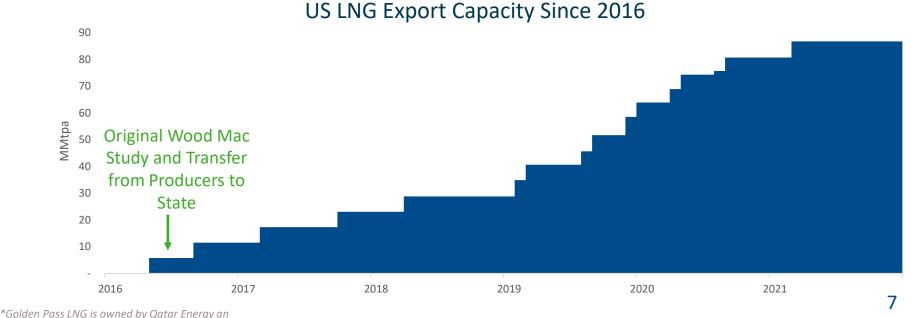
Non-recourse project financing under a tolling model was not widely used for LNG prior to 2016. Since, it has been used for almost all US LNG capacity.

After

- Virtually all LNG projects developed by oil and **Prior** gas companies without true project financing
 - No tolling/capacity charge included in LNG
- 2016 price, LNG sold indexed to oil
 - No US LNG exports

to

- The US LNG industry grows to nearly the largest LNG export in the world
- All LNG plants built by developers with project 2016 finance model, not oil and gas companies*
 - LNG prices include tolling/capacity charge



ExxonMobil, currently under construction in Texas

Federal Loan Guarantee

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The full faith and credit of the United States will be pledged to pay the principal and interest on \$26.3 billion of Alaska LNG debt in the event of a default.

The Infrastructure Bill includes a loan guarantee for Alaska LNG

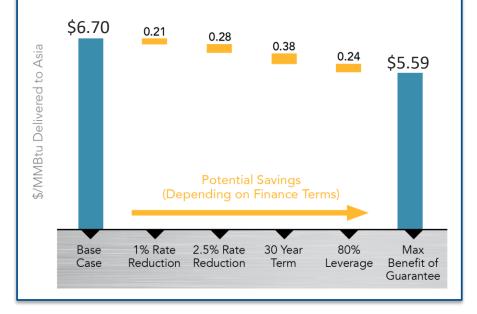
- Principle amount of debt guaranteed up to \$26.3 billion (adjusted for inflation)
- Up to 80% of the capital cost
- Term of up to 30 years
- Loan guarantee will be subject to credit terms and requirements of the loan program

Benefits of the loan guarantee

- Reduced cost of supply
- Completion risk mitigation
- Federal government support and "skin in the game"

Reduced Cost of Supply

- Interest rate reduction of between 1 and 2.5%
- Potential for longer term debt
- Potential for higher debt/equity ratio



LNG and natural gas spot prices remain high and are expected to remain high for the foreseeable future. This creates an opportune environment to develop Alaska LNG.

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Strong LNG Market

LNG Market is Still Growing

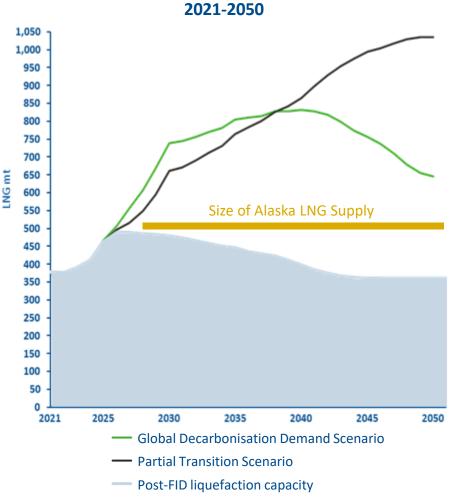
- Demand growth will outpace current and planned LNG capacity
- LNG growth expected as part of energy transition as natural gas is emits half the greenhouse gasses as coal

Investors and Buyers want LNG

- New LNG projects expected to be sanctioned in 2022
- Most new projects have some degree of energy transition planning

"...raising capital for these very capital-intensive [LNG] projects has not really been that much of a challenge to the industry. I think that sends a strong signal of confidence that this [LNG] is going to be around for a while."

-Dan Brouillette, President of Sempra Infrastructure on NPR's Marketplace (Jan 3, 2022)



Global LNG Supply/Demand Balance Forecast,

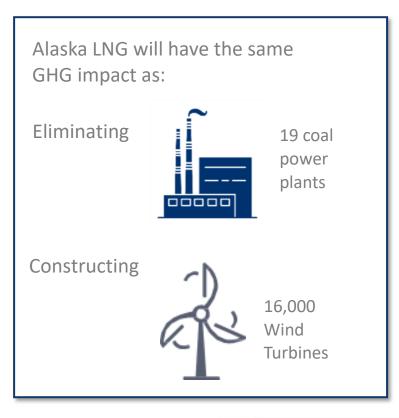
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Source: Gas Strategies

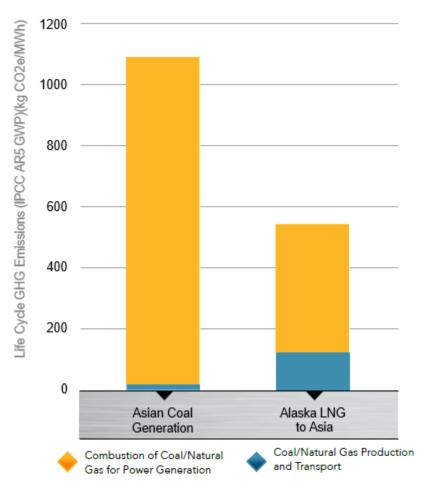
Greenhouse Gas Emissions

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A life cycle analysis of Alaska LNG shows it reduces greenhouse gas emissions for electric power generation by more than 77 million MT of CO2e per year in comparison to Asian coal derived power.



Life Cycle GHG Emissions for Natural Gas vs. Coal Power



Source: Greenhouse Gas Lifecycle Assessment: Alaska LNG Project 11

Transition to Private Developers

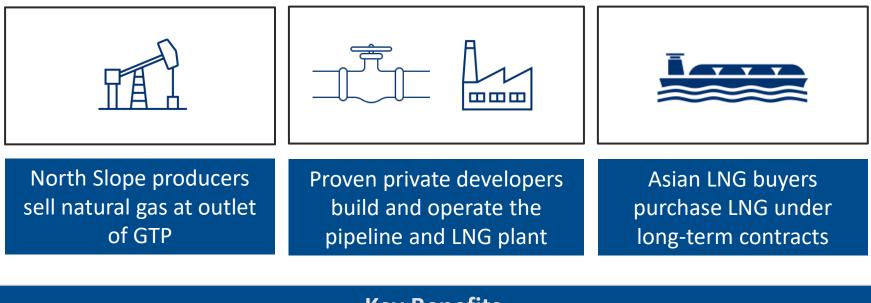
Replacing the Producers with Infrastructure Developers is critical to improving project economics and moving Alaska LNG forward.



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The Alaska LNG commercial structure places qualified developers and operators in the specific roles they are best suited for.



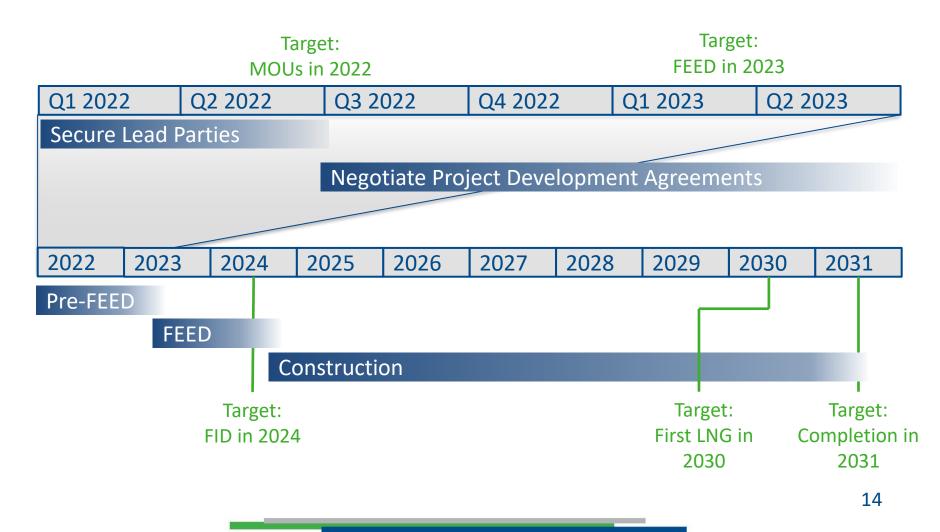
Key Benefits

Does not require North Slope producers to make large infrastructure investments Infrastructure developers operate large-scale assets with financing secured by credit worthy LNG buyers Low-cost LNG with stable pricing available from a source in the North Pacific is appealing to Asian Buyers





Alaska LNG is large and complicated. It will take time to develop as participants work to find alignment. Doing it right is more important that doing it fast.



Alaska Hydrogen Opportunity





50 years ago, the modern LNG industry was created in Alaska. For many of the same reasons, the clean hydrogen industry can also be created here in Alaska.

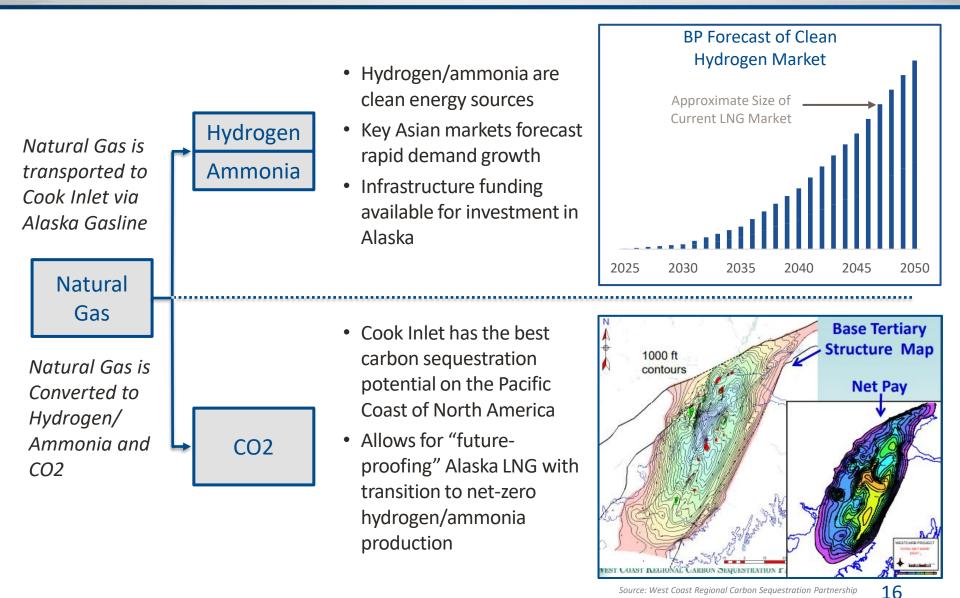
Carbon Storage and Sequestration at the Project Site on Tidewater

Short Distance to Growing Clean Hydrogen Markets in Asia

Low GHG Natural Gas from Conventional Supply Existing Ammonia Plant well Positioned to be First Mover in Market

Alaska Hydrogen Opportunity





Source: West Coast Regional Carbon Sequestration Partnership

Alaska LNG and Blue Ammonia

Alaska LNG and Cook Inlet Blue Ammonia are being developed together and each project support the other.

ALASKA LNG



The size of the current LNG market can support construction of a 20 Mtpa Alaska LNG facility. This facility is large enough to support construction of the Alaska Natural Gas Pipeline Cook Inlet Blue Ammonia demonstrates the opportunity for expanded clean energy supply from Alaska. This future proofs Alaska LNG investment and provides a path to net-zero energy from Alaska.

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