



# ALASKA LNG

PROJECT OVERVIEW | 2023

ALASKA  
GASLINE  
DEVELOPMENT CORP.

8★STAR

- ★ State of Alaska owned corporation
- ★ Created to advance Alaska LNG
- ★ Current 100% owner of 8 Star
- ★ Plan to sell interest in 8 Star to partners in order to fund development work
- ★ Will eventually be minority, non-operating owner of Alaska LNG

- ★ Project company currently holding Alaska LNG assets
- ★ Seeking investors in 8 Star
- ★ Two options:
  - Become operating company  
~or~
  - Use as a vehicle for other operating companies to obtain ownership in Alaska LNG

**LOWER COST THAN  
U.S. GULF COAST LNG**

**50 GT • CARBON  
SEQUESTRATION**

**LOWER CARBON THAN  
U.S. GULF COAST LNG**

**THE ONLY FULLY  
PERMITTED PROJECT  
ON THE WEST COAST**

**CLOSE PROXIMITY TO  
ASIAN MARKETS**



## NORTH SLOPE GAS SUPPLY

40 Trillion cubic feet (tcf) of discovered, conventional, and developed North Slope associated gas, and stranded gas can be produced at a low incremental cost

## ARCTIC CARBON CAPTURE

Located adjacent to existing gas plants which will remove and sequester carbon dioxide from raw gas stream and then condition gas to LNG specifications

## NATURAL GAS PIPELINE

1,300 km pipeline from Prudhoe Bay to Nikiski which follows existing oil pipeline and highway system, with gas delivered to Alaskan communities and the LNG / ammonia plants

## ALASKA LNG FACILITY

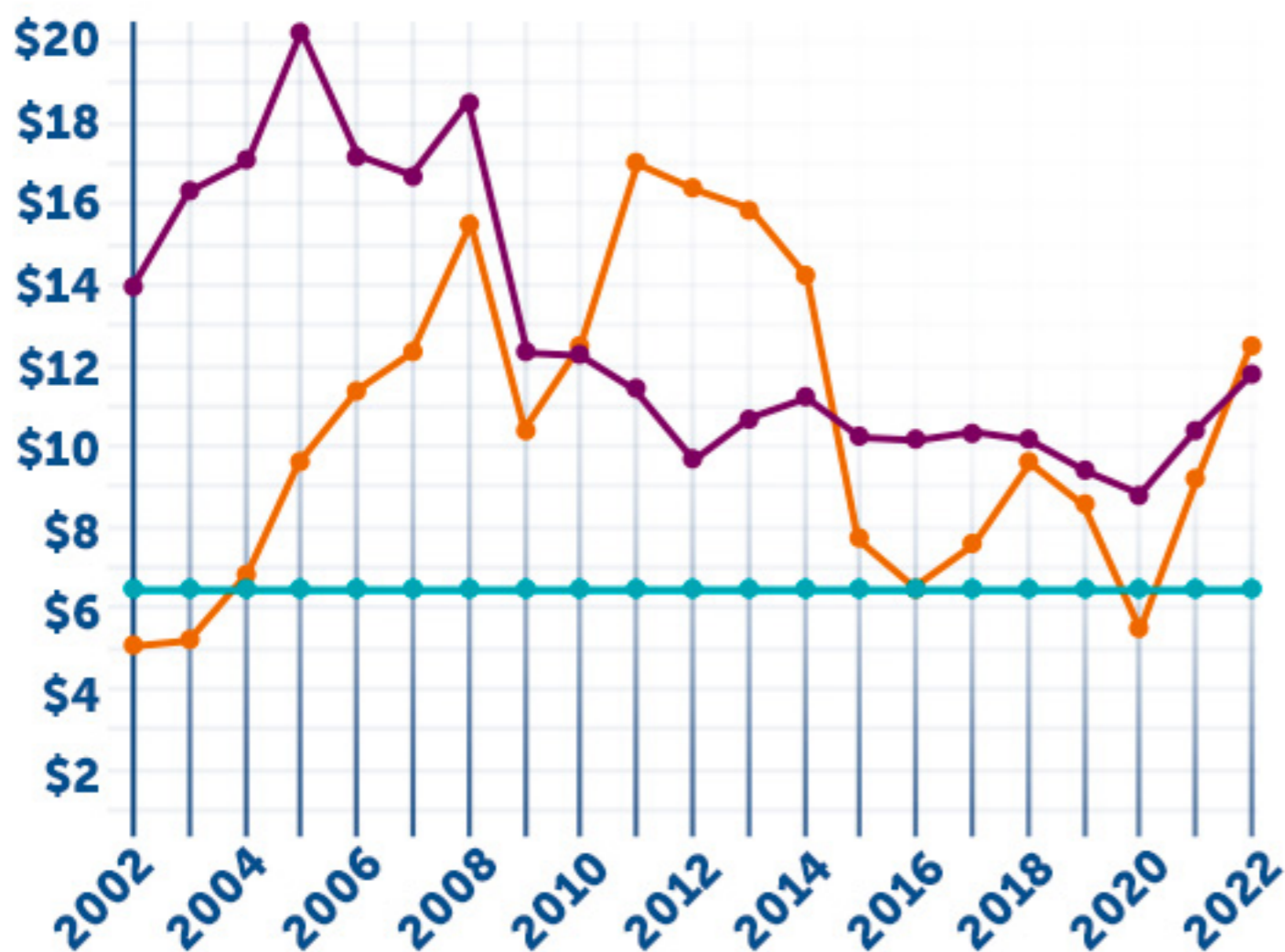
Up to 20 Mtpa LNG facility located in Nikiski near the legacy Kenai LNG plant

## FUTURE HYDROGEN / AMMONIA OPPORTUNITY

Land available for future production of blue ammonia and existing Nutrien ammonia plant can be restarted



ALASKA LNG IS **LOW COST AND PRICE STABLE** WITHOUT COMMODITY PRICE EXPOSURE

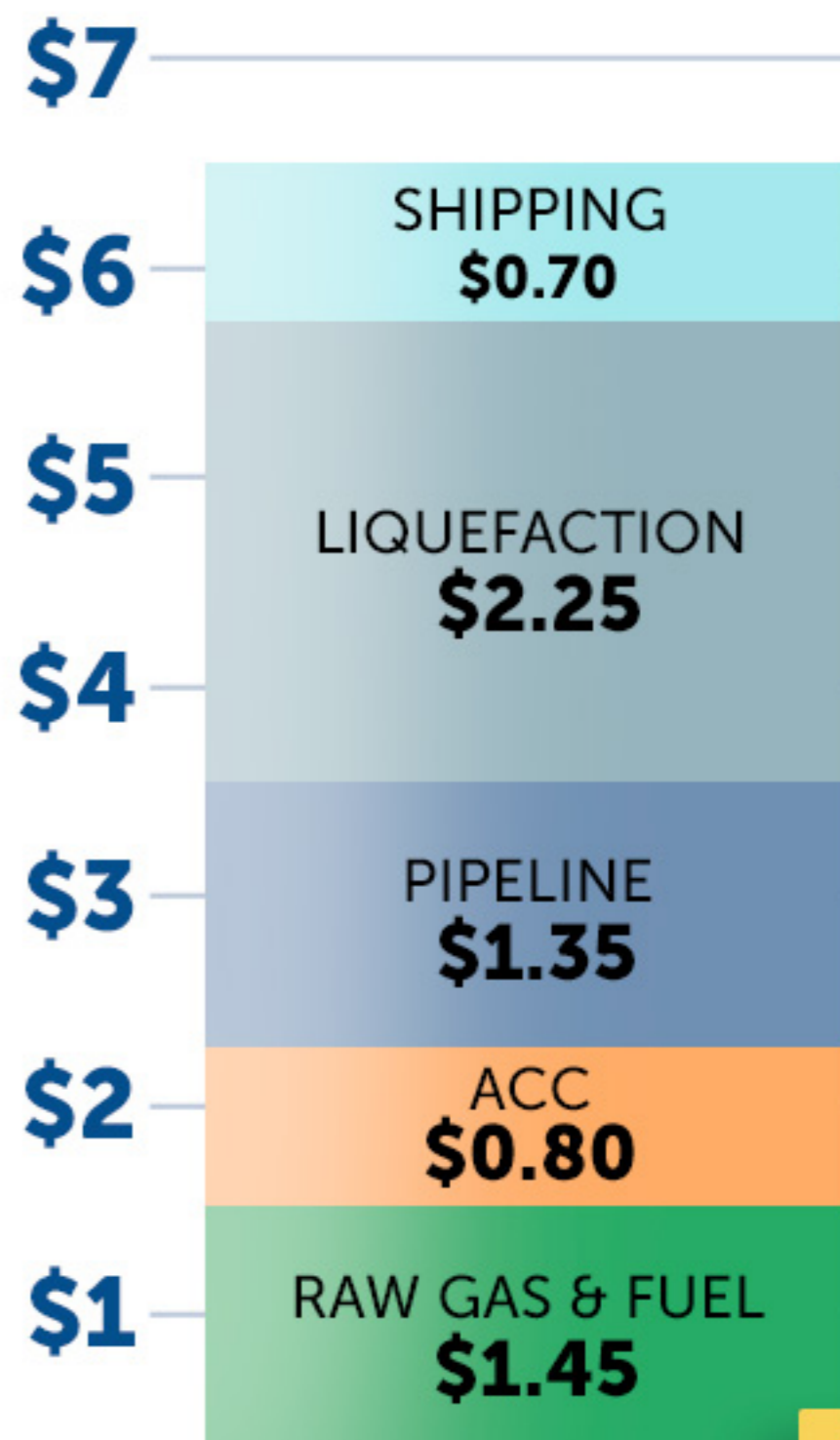


**HH+\$5**

**BRENT x 12%**

**AK LNG**

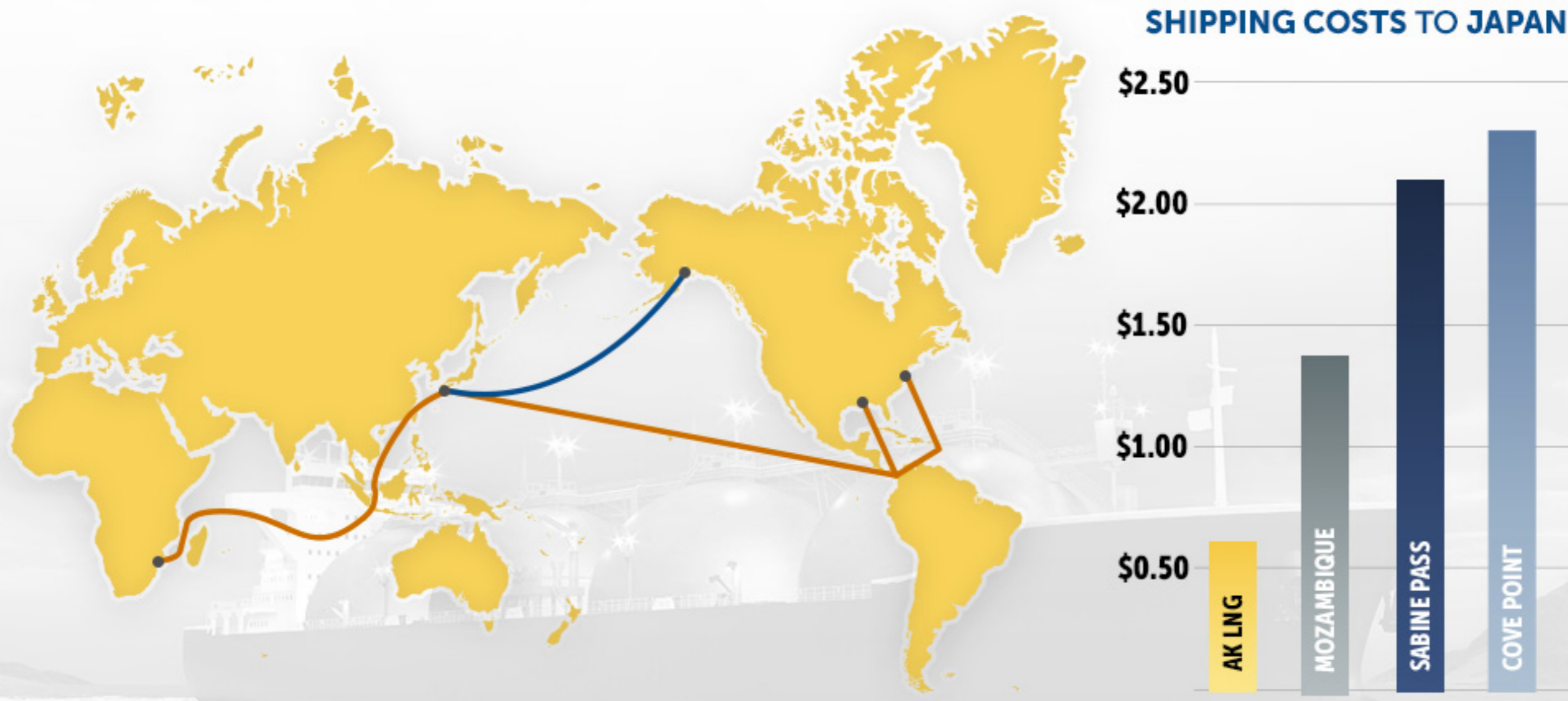
## AK LNG \$6.55 COST BREAKDOWN



## ALASKA IS SEVEN SHIPPING DAYS FROM JAPAN

AND TRANSITS NO CANALS OR CONGESTED SHIPPING LANES.

SHIPPING FROM KENAI LNG WAS **NEVER INTERRUPTED** IN 50 YEARS.



## PROVEN

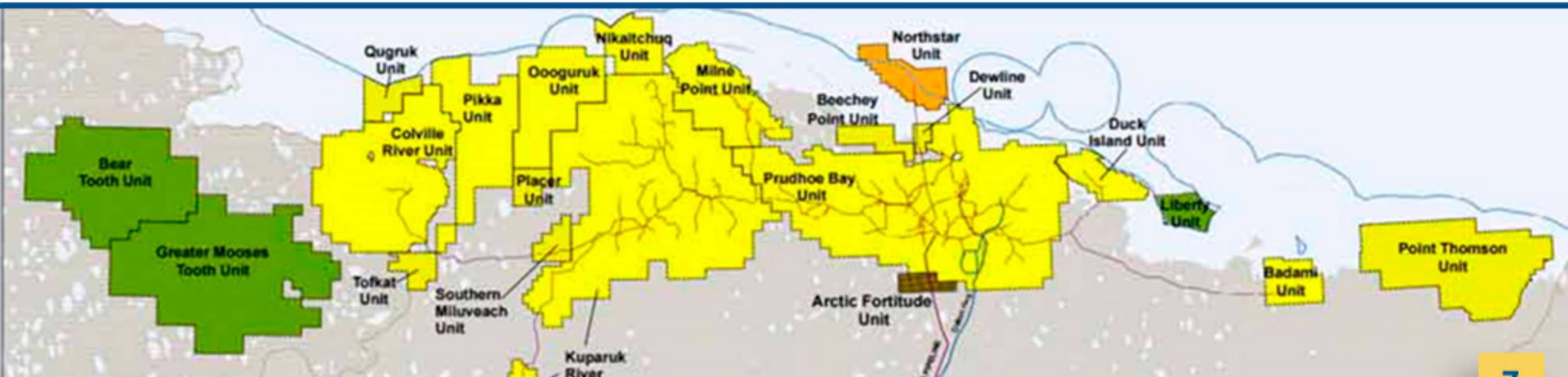
- Approximately 40 tcf of proven reserves
- 8.5 bcf is reinjected into fields daily
- Unit owners are ExxonMobil, ConocoPhillips, Hilcorp (formerly BP)

## CONVENTIONAL

- No enhanced recovery or "fracking" required
- Existing gas on State of Alaska lands
- Limited new drilling required

## STRANDED

- Alaska LNG is the only permitted opportunity to monetize
- No commodity price exposure or risk
- Supply price will reflect stranded gas assets



## THE FULL FAITH AND CREDIT OF THE UNITED STATES WILL BE PLEDGED

TO PAY THE PRINCIPAL AND INTEREST ON \$30 BILLION OF ALASKA LNG DEBT IN THE EVENT OF A DEFAULT



### INFRASTRUCTURE BILL INCLUDES A LOAN GUARANTEE FOR ALASKA LNG

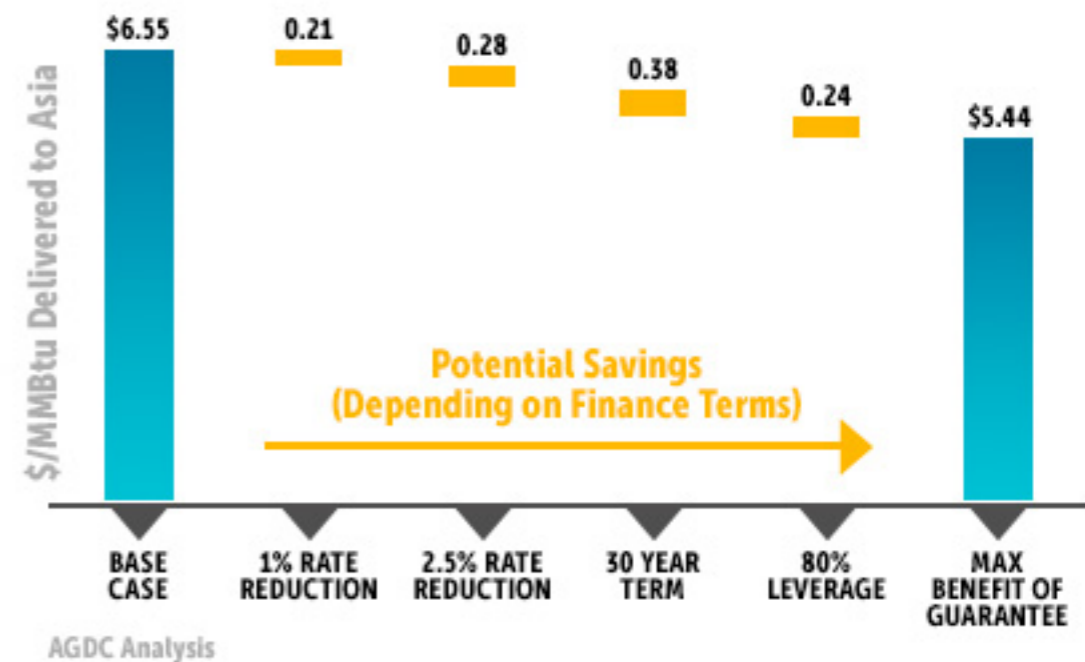
- ▶ Principle amount of debt guaranteed up to \$30 billion (adjusted for inflation)
- ▶ Up to 80% of the capital cost
- ▶ Term of up to 30 years
- ▶ Loan guarantee will be subject to credit terms and requirements of the loan program

### BENEFITS OF THE LOAN GUARANTEE

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

### REDUCED COST OF SUPPLY

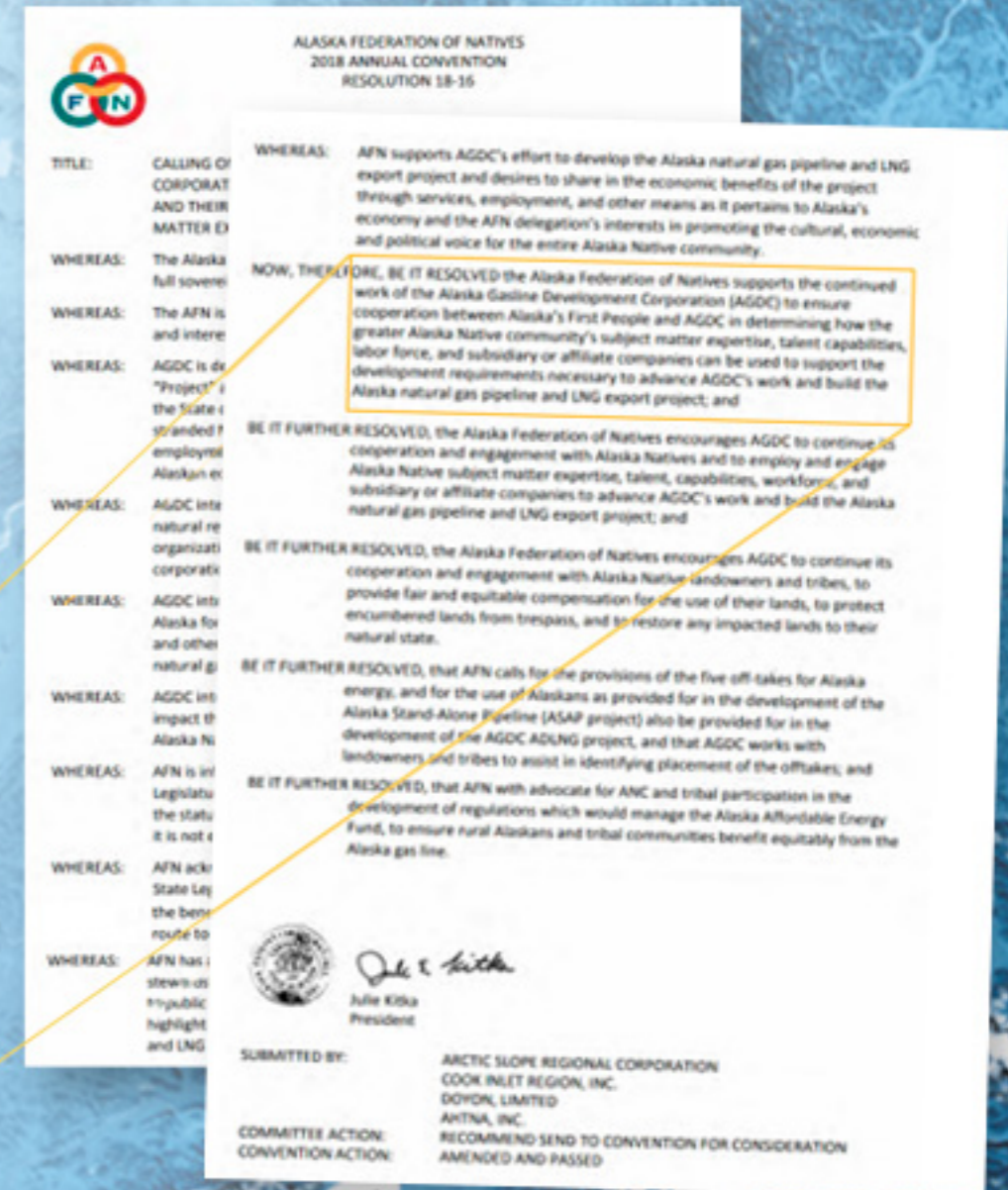
- ▶ Interest rate reduction of between 1 and 2.5%
- ▶ Potential for longer term debt
- ▶ Potential for higher debt/equity ratio



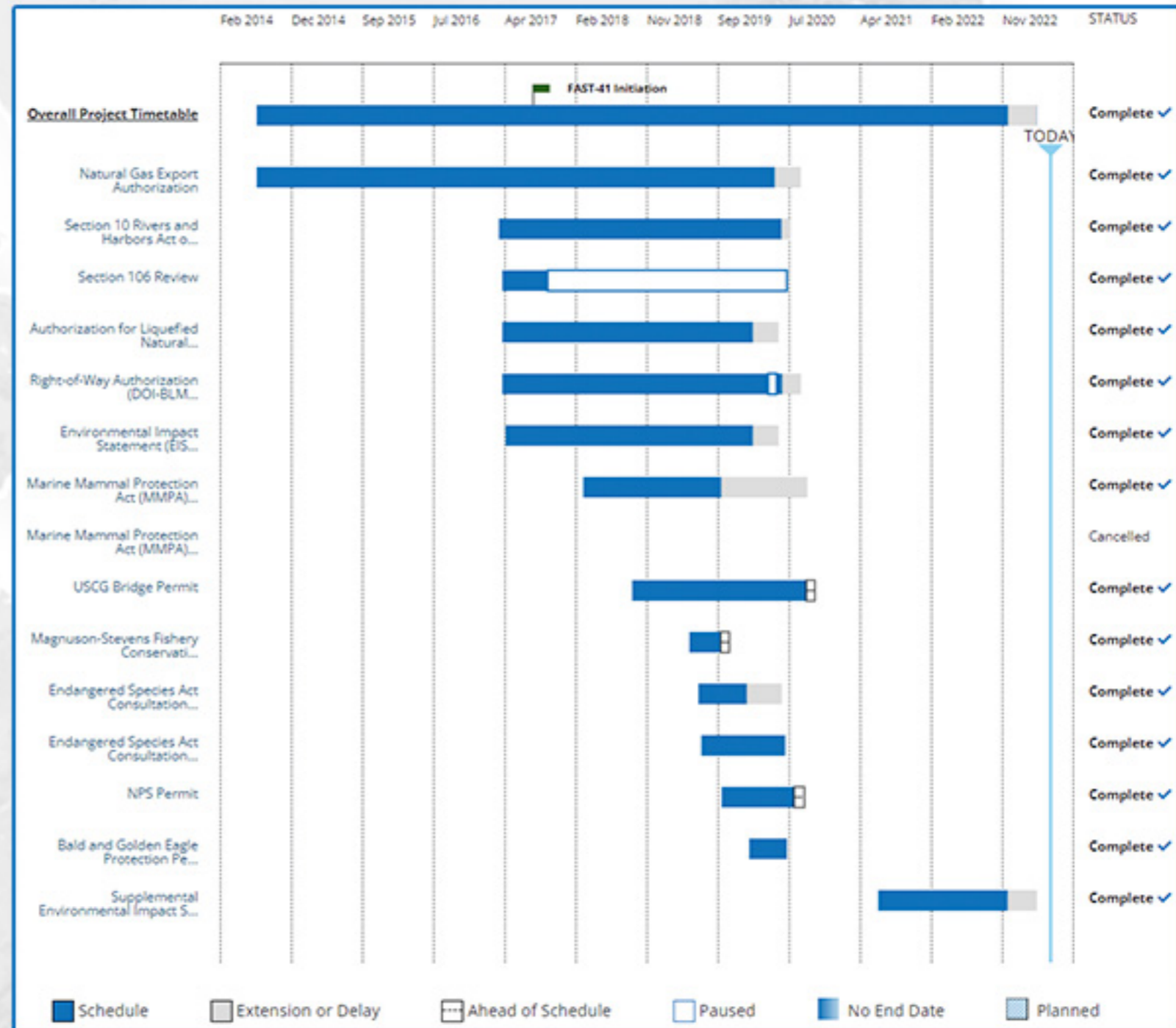


The largest organization representing the Alaska indigenous population, the Alaska Federation of Natives, formally supports Alaska LNG and the natural gas pipeline.

“The Alaska Federation of Natives supports the continued work of the Alaska Gasline Development Corporation (AGDC) to ensure cooperation between Alaska’s First People and AGDC in determining how the greater Alaska Native community’s subject matter expertise, talent capabilities, labor force, and subsidiary or affiliate companies can be used to support the development requirements necessary to advance AGDC’s work and build the Alaska natural gas pipeline and LNG export project.”



## PERMITTING TIMELINE



## COMPLETED

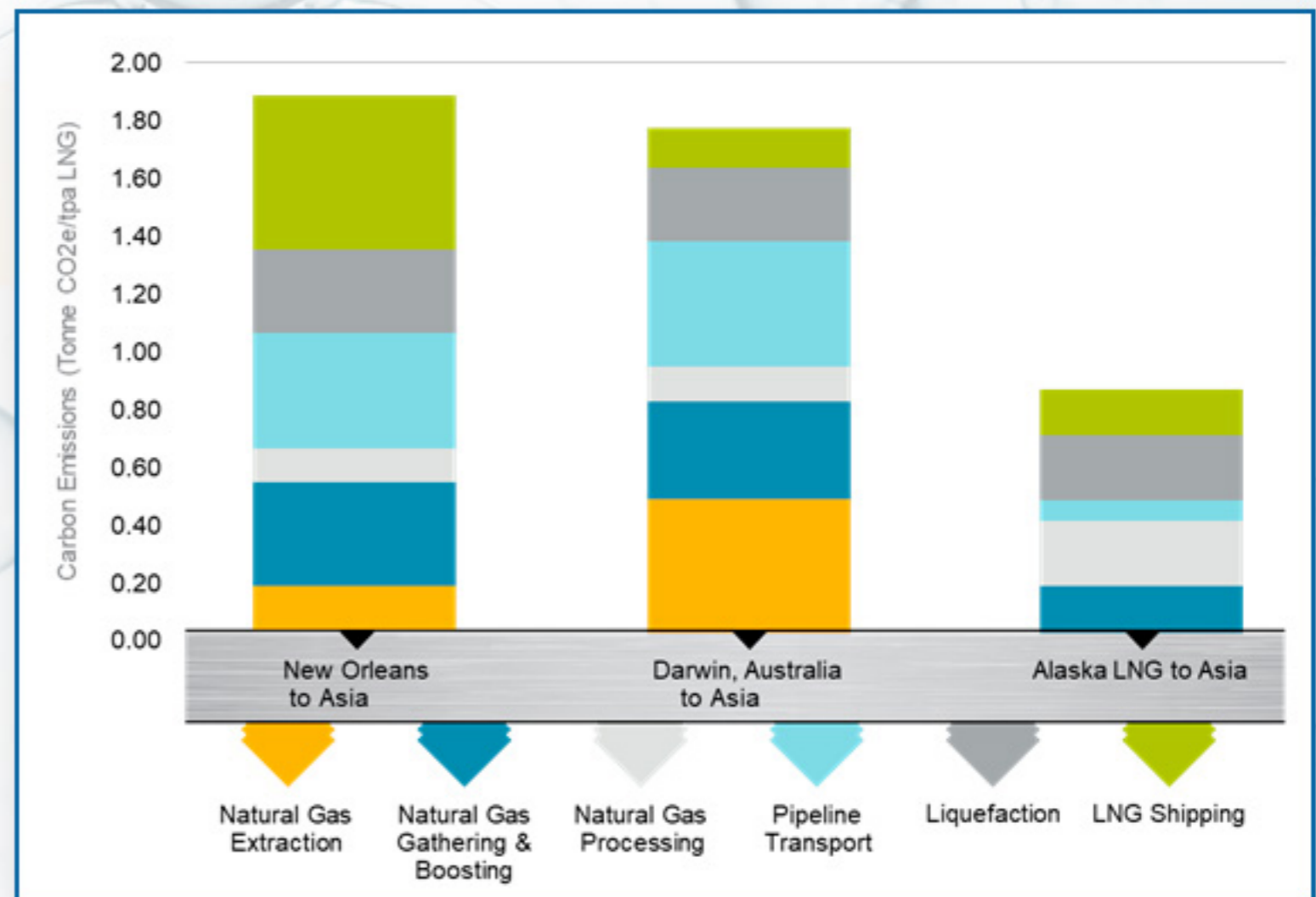
- ▶ Federal Energy Regulatory Commission (FERC) Environmental Impact Statement (EIS) and Authorization to Construct
- ▶ All 36 Major Federal permits & authorizations
- ▶ Approved Cultural Resources Management Plan
- ▶ Gas Treatment Plant Air Permit
- ▶ Federal and State Right-of-Way Agreements cover 92% of Project Footprint
- ▶ Department of Energy Supplemental EIS and Export Order

## ALASKA LNG IS LOW-CARBON COMPARED TO COMPETING SOURCES

### LNG PROJECT CARBON EMISSIONS COMPARISON

#### ALASKA LNG'S GHG ADVANTAGES

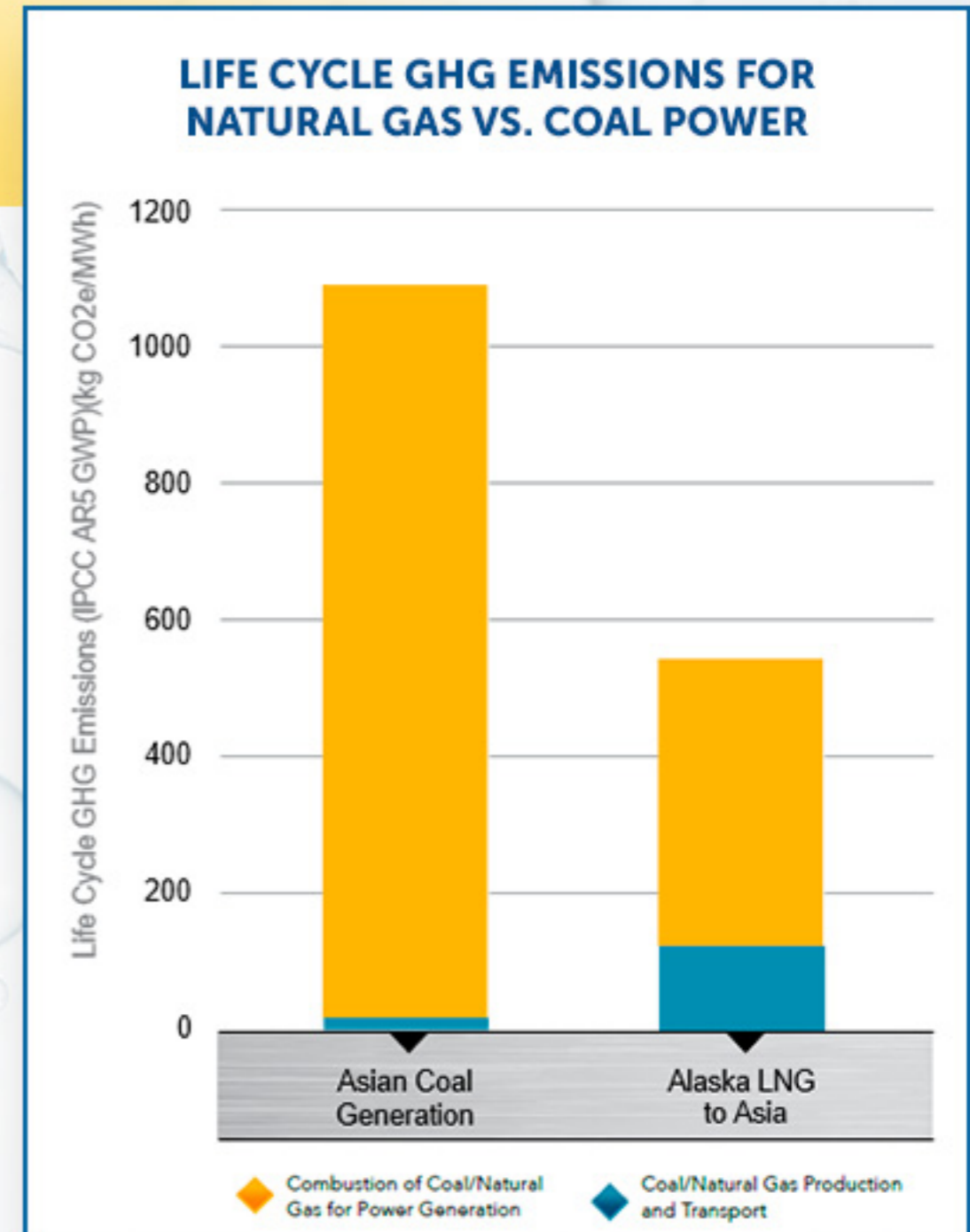
- ▶ Associated gas already under production
- ▶ Single, large-diameter pipeline
- ▶ Limited gathering & boosting
- ▶ Closer shipping



A life cycle analysis of Alaska LNG shows it **reduces greenhouse gas emissions** for electric power generation **by more than 77 million metric tons** of CO<sub>2</sub>e per year in comparison to Asian coal derived power

## ALASKA LNG'S GHG ADVANTAGES

- ▶ Associated gas already under production
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LIFE CYCLE GHG EMISSIONS FOR NATURAL GAS VS. COAL POWER

**PARTNERSHIP  
OPPORTUNITY**

**ALASKA LNG**



**ALASKA  
H<sub>2</sub> HYDROGEN  
OPPORTUNITY**

**THE FUEL  
YOU NEED**

**WHEN YOU  
NEED IT**



## ALASKA **H<sub>2</sub>** 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 in Alaska.



**CARBON STORAGE AND SEQUESTRATION AT THE PROJECT SITE AT TIDEWATER**



**SHORT DISTANCE TO EXPANDING CLEAN HYDROGEN MARKETS IN ASIA**



**LOW GHG NATURAL GAS FROM CONVENTIONAL SUPPLY**



**EXISTING AMMONIA PLANT IS WELL POSITIONED TO BE FIRST MOVER IN MARKET**

Natural Gas is transported to Cook Inlet via Alaska Gasline

## HYDROGEN AMMONIA

- 1 Hydrogen/ammonia are clean energy sources
- 2 Key Asian markets forecast rapid demand growth
- 3 Infrastructure funding available for investment in Alaska

## NATURAL GAS

Natural Gas is Converted to

- Hydrogen
- Ammonia
- CO<sub>2</sub>

## CO<sub>2</sub>

- 1 Cook Inlet has the best carbon sequestration potential on the Pacific Coast of North America
- 2 Allows for "future-proofing" Alaska LNG with transition to net-zero hydrogen and ammonia production

### BP Market Forecast CLEAN HYDROGEN

