# Alaska LNG Fueling Alaska's Future



30 October 2015

# **Project Update**

## **Alaska LNG – Project Overview**

## Alaska LNG

Artists renditions of LNG and GTP

**Trans**Canada

An integrated liquefied natural gas export project providing access to gas for Alaskans

#### Gas Treatment Plant (GTP)

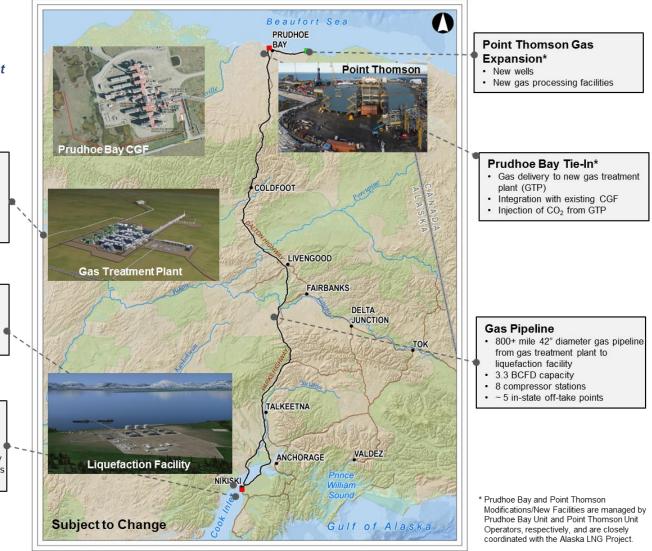
- · 3.3 BCFD peak winter rate
- Three trains with compression, dehydration and chilling for gas conditioning (remove impurities)
- CO<sub>2</sub> removed and compressed for injection at PBU

#### LNG Storage & Marine Terminal

- · LNG storage tanks
- Two jetties to accommodate 15 20 LNG carriers per month

#### Liquefaction Facility

- Natural gas is cooled to -260 degrees to condense the volume 600 times
- 3 trains dehydrate, chill and liquefy gas to produce up to 20 million tons of LNG each year



ConocoPhillips ExonMobil



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## Alaska LNG – Project Overview

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### Safety, Health and Environment Report:

Building culture of caring – 1 minor vehicle incident, 3 first aid, 2 near miss

### Executive Summary:

- \$303M Through Sep 15
- Spend: \$243M on pre-FEED th 83% Through Aug 15
- Initial design scope ~75% complete, 2015 field work ~50% complete
- Finalizing project design/execution basis (cost and schedule estimate)
- Ongoing collaboration with regulators at local, State and Federal levels
- Community open-house sessions continuing with FERC participation
- Progressing work Submitted SoA request for a 48" pipeline system
- Developing 2016 Work Program and Budget

### Key Messages:

- Alaska LNG is an integrated LNG project plants plus pipeline
  - Regulated under FERC Section 3; allows design integration
  - Integrated design includes ~ 5 off-take points for in-state supply
- Focus on lowest cost of supply to compete in a global market
- Alignment, risk and cost reduction (ARC) remain key to success



## **Project Team**

## Alaska LNG

- Fully integrated project team
  - All companies represented at all levels "best player plays"
  - Leadership team in place (27 roles, over 800 years experience)
  - Leverage skills to meet common goal of delivering Alaska LNG
- · Teams "co-located" to 'take work to the people'
  - Integrate teams into contractors' offices for key work scopes
  - All offices include representatives from each company
  - Building project organizations
  - Over 100 full time employee positions filled
  - Soffices: Anchorage, Calgary and Houston
  - Expect several hundred contractors for each proj
  - Working to award contracts, start contractors in 4Q14
  - Strong focus on Alaskan content and engaging Alaskan resources

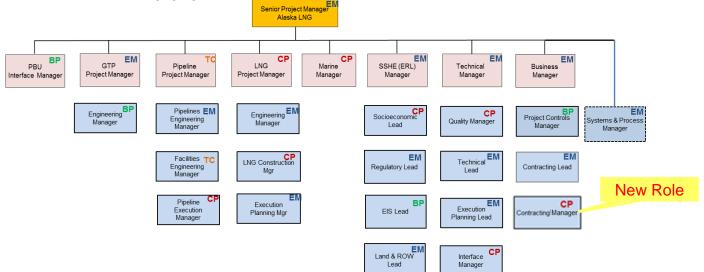
135

4 with Denver

Awarded

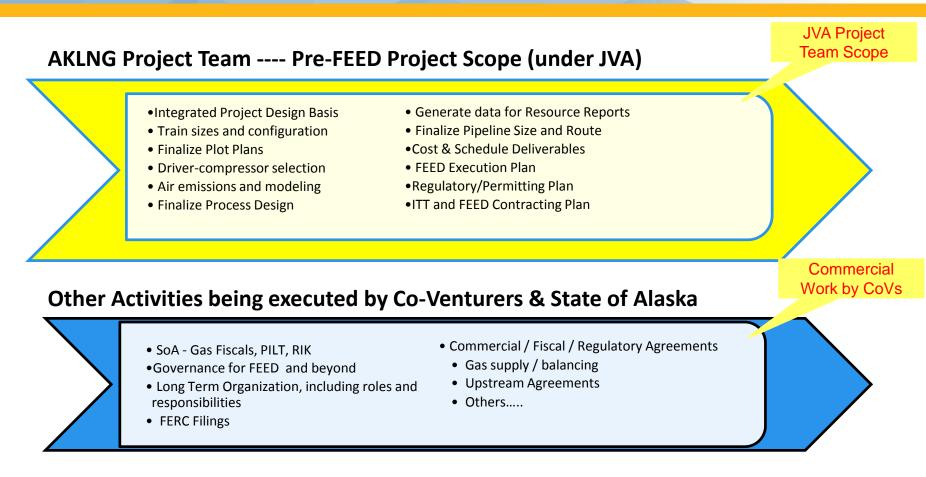
### Alaska LNG Project Leadership Team





## **AKLNG Project Scope**

## Alaska LNG



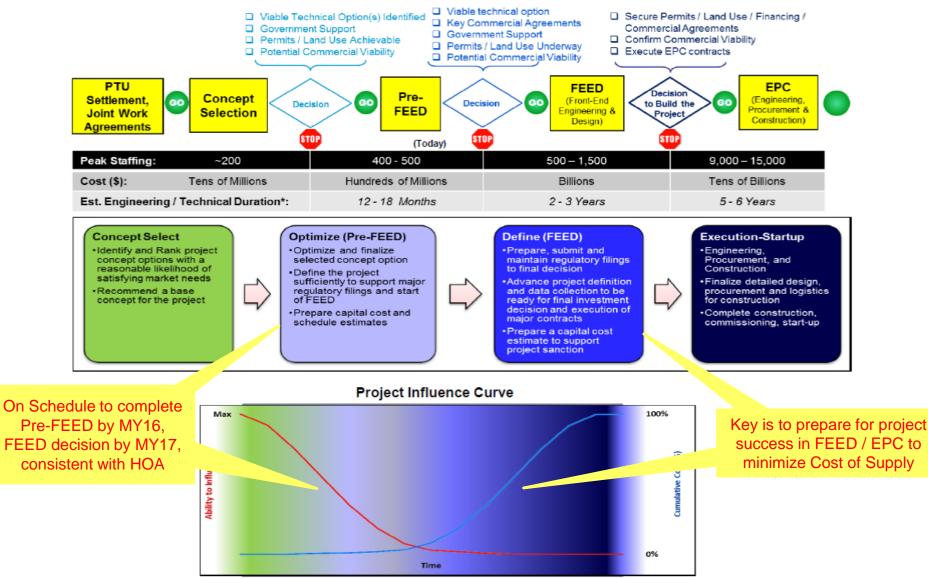
### **Keys to Success (ARC)**

- Alignment
- Risk reduction reducing the range of uncertainty (perceived risks)
- Cost reduction and predictability

## **Project Development Phases**

## Alaska LNG

### Alaska LNG – Phased/Gated Project Management Process (Oct 12)



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## Alaska LNG by-the-numbers

## Alaska LNG<sub>™</sub>

### Technical and \$303M Through Sep 15

- \$243M + on pre-FEED through August 15
- \* 570+ acres purchased in Nikieki A 135
- 130+ full-time personnel on Alaska LNG Project
- \* 200+ people in the field (80 scientists)
- 950+ acres of topographic survey
- \* 15,500+ acres of cultural surveys
- \* 148,000+ feet of shallow seismic completed
- \* 250 boreholes drilled
- \* 100+ environmental site assessments completed
- 2,000+ helicopter flying hours, 87,000+ miles driven
- \* 1,100+ field check points set/confirmed

### Regulatory

- \* 2 DoE conditional export licenses (FTA / non-FTA)
- \* 10,000+ pages of regulatory filings

### Engagement

- 90+ community outreach events
- \* 100s of Alaska entities involved in logistics and labor studies
- ~700 Alaska businesses information sessions
- 40+ meetings with Alaska Native regional and village corporations and tribal entities











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# Questions