# Gas pipeline efforts work on permits while waiting on the markets

## Pipeline projects in parallel

- State working on two interconnected tracks
  - ✓ A large-volume, expensive LNG export project
  - ✓ A smaller but still expensive in-state pipeline
- Smaller is backup to bigger, but both need:
  - √ Federal environmental impact statement
  - Customers, gas supply, investors and state cash
- Getting closer on permitting, less so on financing

## Backup line at the Army Corps

- Alaska Stand Alone Pipeline (aka ASAP, Bullet Line)
- Comments closed Aug. 29 on draft supplemental EIS
- □ Final EIS due from U.S. Army Corps in December
- State expects Record of Decision by March 2018
- First EIS was final in 2012, but significant changes in the project and route required supplemental EIS
- □ State submitted application 2014; revisions 2016

## Big project at FERC

- □ FERC will prepare federal EIS for LNG project
- State filed in April; FERC last week sent third batch of its data requests to AGDC (250+ pages in total)
- FERC will not issue EIS schedule until it is confident it has enough information to set a realistic timetable
- State asked FERC for very ambitious EIS schedule
- Draft summer 2018 and final by December 2018
- Construction start 2019 and first LNG cargo 2023

### FERC cautious with schedule

- AGDC expects FERC to issue EIS schedule this fall
- □ FERC will not set a schedule until it is ready
- New federal permit tracking office, executive order to move along reviews cannot dictate FERC schedule
- Commission does not want to set a schedule that it and other federal regulatory agencies cannot meet
- □ Besides, a rushed EIS is a litigated EIS
- Expect challenges by pipeline, fossil fuel opponents

# Spending continues

- Going back to 2000, the state and producers have spent about \$1.7 billion on gas line efforts
- Lack of a project is not for lack of trying
- AGDC will have spent about \$150 million by the time it gets its Record of Decision on backup line
- State will have spent more than \$200 million on LNG project as of the end of fiscal year June 2018
- □ AGDC likely will need more money from legislature if it continues EIS work with FERC through 2018-19

# What comes after permits?

- Army Corps authorization for the backup line has value and can be used to help the bigger pipeline
- Spending on backup line will stop after final EIS
- State could need to make next spending decision on the LNG project before FERC reaches final EIS
- Governor and AGDC have consistently said they would not proceed unless there is market interest
- Not just interest, but real dollars and real contracts

## Big or small, need a market

- The backup line and LNG project have much more in common than steel pipe, natural gas and permits
- Each needs customers to pay the mortgage
- Alaska market too small to support line on its own
- Investors and lenders will not loan on local needs;
  they need to see contracts sufficient to make money
- No one finances gas pipelines on speculation;
  and Alaska is in no position to pay cash for its share

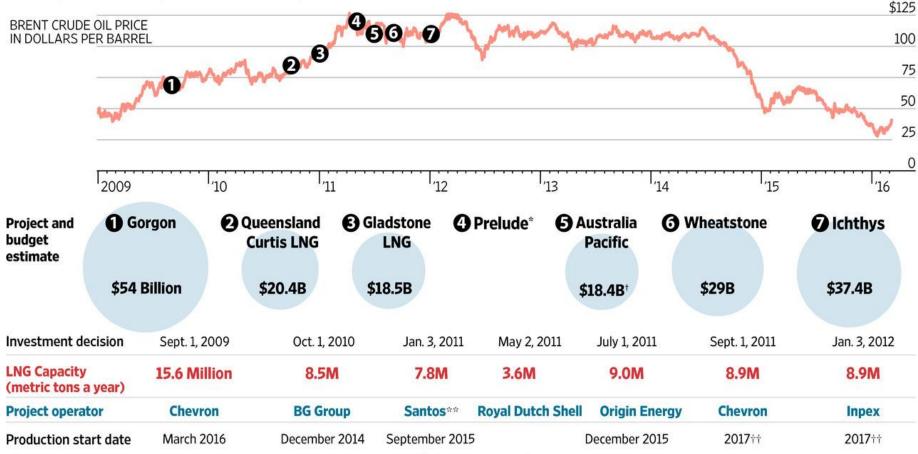
## Traditional LNG market changed

- "If the market's liquidity has improved to the point where it's possible to buy or sell LNG any time, it would become less necessary to rely on long-term [deals]."
  - Sunao Okamoto, LNG Trading General Manager, Osaka Gas
- "It's a buyer's market at the moment and there's no doubt about that." Woodside CEO Peter Coleman
- "Actions based on predictions rarely work out. That is how it works in the world."
  - JERA Co. Chief Fuel Transactions Officer Hiroki Sato

### Predictions that did not work out

### **Tough Timing**

Massive liquefied natural gas projects in Australia were approved when oil prices were on the rise. They have begun shipping the chilled natural gas amid a slump in benchmark crude prices.



<sup>\*</sup>Budget estimate and production start not disclosed, Bernstein estimates the cost at US\$16 billion, with a 2017 start-up hubs while the JV operate the LNG plant †Converted from Australian dollars at current rate ††Scheduled

Sources: Thomson Reuters (oil prices); the companies

THE WALL STREET JOURNAL.

<sup>\*\*</sup>Santos operates the upstream activities, wells and compression

# A competitive world

- Australia will have more than tripled its LNG production capacity between 2012 and 2018
- More supply under construction at Russia's Yamal,
  and 6 sites in Texas, Louisiana, Georgia, Maryland
- Potential for even more Gulf Coast export capacity
- Mozambique is getting one, maybe two LNG plants
- Expansion possible for existing export projects in Papua New Guinea, Russia's Far East Sakhalin plant

# A buyer's market this decade

- India has renegotiated long-term deal with Qatar
- Indian gas distributor wants to renegotiate lower
  price on 20-year contract with Louisiana LNG plant
- More buyers are expected to push for better terms
- Toshiba signed 20-year commitment to take gas from Texas LNG project, but still looking for buyers
- Spot-market LNG below long-term contract prices,
  putting strain on sellers but it will not last forever

### Long-term deals losing ground

- Jera Co., a joint-venture of Tokyo Electric and Chubu Electric, is planning to cut the amount of LNG it purchases under long-term contracts by almost half from current volume by 2030
- LNG buyers are playing sellers against each other
- About 28% of LNG in 2015 was sold on a spot or short-term basis, up from single digits pre-2006
- Projections of 40% spot/short-term deals by 2020

# Thankfully, market is growing

- As LNG prices have fallen, more growing economies
  are burning more gas for cleaner power generation
- India, Pakistan, Thailand, Vietnam, South America,
  Jordan, Kuwait, Turkey, Bangladesh turning to gas
- Floating LNG import, storage and regasification vessels have lowered the entry cost for new buyers
- Low prices are creating new demand worldwide
- But that demand could stall if prices rise too much

### Property taxes unresolved

- Impact aid fund would be used during construction
- Negotiated payment in lieu of tax during operation
- Certainty of expense and certainty of revenue
- No lengthy litigation over assessed value
- Draft negotiated with producer-led team 2015:
  - Construction PILT fund: \$800 million over 5 years
  - Operations PILT: \$14 billion 25 yrs. (volume-based)

### Impact aid during construction

- Intended to cover direct cost of services, repairs,
  municipal expenses related to construction impacts
- Not a profit center for municipalities
- Project would write one check to the state
- Probably administered as a state grant program
- Municipal advisory group, AGDC and legislature need to figure out how grant program would work

### PILT during operations

- Payment in lieu of property taxes based on formula
- More gas, more money; less flow, less money
- State and municipalities need to decide allocation
- Producers want no part of that political battle
- □ Portion of it could (should) be shared statewide
- Population, direct and indirect impacts, statewide, project mileage? The legislature will have to decide
- □ AGDC says there will be a PILT, but no details yet

## State fiscal plan must come first

- Hard to imagine anyone loaning the state billions of dollars when we don't know how we will pay for schools in a couple of years
- Alaska covering two-thirds of budget from savings
- LNG alone cannot solve state's fiscal problem;
  not that much profit in gas, and it's years away
- Think of the project as a needed booster shot in the years ahead; it will not cure today's illness

### For more information

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### Alaska LNG project reports

http://www.kpb.us/mayor/Ing-project/Ing-project-updates