Agenda

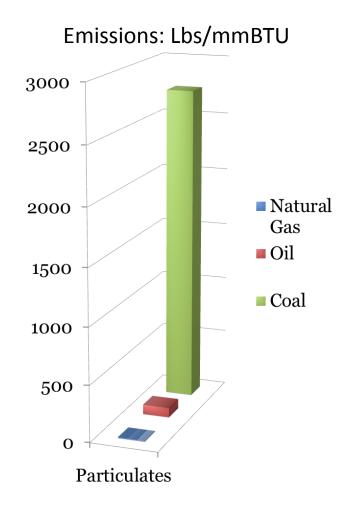
- Goal
- What is LNG
- Technology
- Location
- Development / Transport
- Utilization
- Benefits / Summary



LNG for Alaska

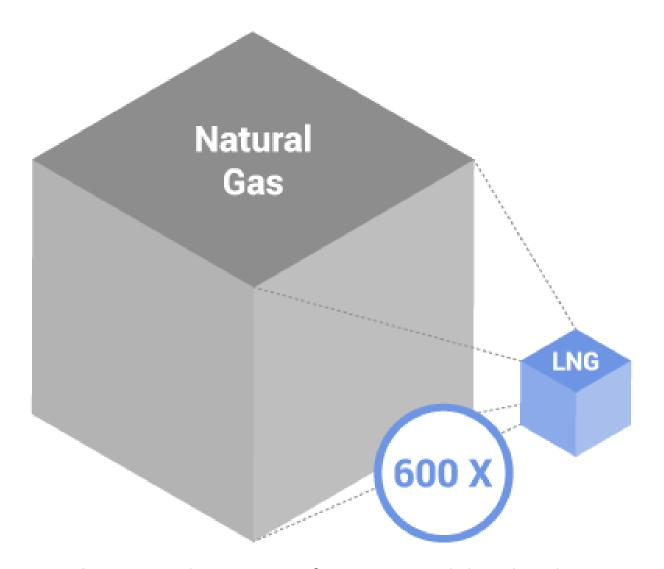
Goal of Project

- Natural Gas Utilization
 - Domestic
 - Cost Effective
 - Low Emissions
- Diesel Power Generation
 - Imported
 - Expensive
 - Emissions
- Technology to densify is available



[&]quot;Supporting the statewide transition from imported diesel to domestic energy"

What is LNG?



Safety Moment - LNG

LNG is natural gas in its liquid state at <-260 °F

- NOT flammable in its liquid state.
- Must be vaporized in order to burn. Very slow burning and difficult fuel to ignite.
- Requires a high temperature ignition source and an appropriate mixture with air (5% 15% saturation.)

Stored at low pressures such as 30 psi

Spills vaporize to ATM

Non-toxic and non-corrosive.

Requires PPE to handle



Technology / Development

- Siemens Technology
 - Liquefaction
 - Modular
 - Scalable
 - Rapidly Deployable

- Engineering / Development / Operation
 - Northstar Industries
 - Liberty Energy Trust



"Supporting the statewide transition from imported diesel to domestic energy"

Location

- Houston is ideal location
 - Land Available: 1,000 acres
 - Gas: Multiple sources
 - Transportation:
 - Rail siding
 - Road Access



Transportation

- AK Rail
 - North to Fairbanks
 - To Fairbanks storage
 - Truck to communities/mines
 - South to Ports
 - Marine to remote port
 - Remote port to truck
 - Truck to communities/mines
- ISO Tanks
 - Modular/Intermodal use



Utilization

- Industry
 - Mines
 - Fisheries
 - Forestry
- Communities
 - Schools / Clinics
 - Heating / Cooking
 - Water / Sewer
- Natural Gas Gensets
 - Power generation
 - Combined Heat & Power





Summary

- Technology is available
- Prime location in Houston
- Cost-effective rail transport
- Efficient use of energy
- Benefits
 - Economic Stability
 - Health & Education
 - Environment

Pieces are in place



For More Information

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THANK YOU

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