

From Flare to Fuel: *Using Flared Gas as Compressed Natural Gas to Fuel Operations*

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April 29, 2015 / Williston Basin Petroleum Conference

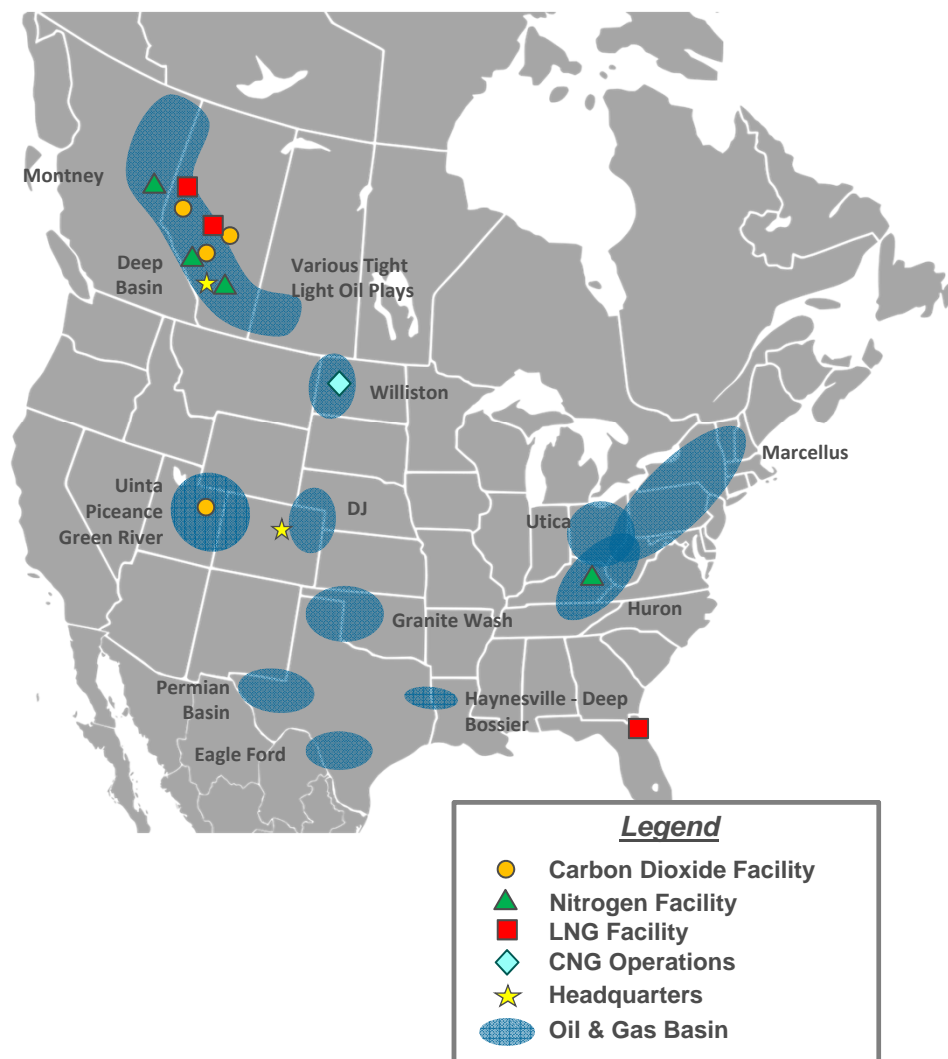
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Three things to remember

- Benefits of using Natural Gas
- CNG networks are being built effectively
- Ferus has a track record of success

Ferus Overview

- Largest provider of cryogenic fluids to the Canadian energy industry
- Privately held by the Energy and Minerals Group
- Strategic partners include GE and ENN Canada



Ferus in the Williston Basin

Base Location

- Speed to mobilize (flaring)
- Geographic density of basin



Benefits of using Natural Gas

Benefits of Natural Gas

- Reduce Costs
- Safety
 - Inherently safer than diesel
- Security of Supply
 - Less exposure to commodity volatility
- Environmental
 - Large reduction in GHG emissions
 - 30% reduction in CO₂ emissions
 - Burn your gas, not flare it

Not Just Carbon Emission Reduction

Natural gas emissions reductions relative to diesel



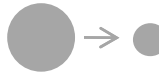




....and noise reduction!

LNG vs. CNG

LNG vs. CNG






CNG

Temperature:		25°C (77°F)
Pressure:		2500 - 3600 PSI
Volume:		1:200 Volume Ratio
Project CAPEX:		\$5M - \$20 M
Facility Size:		1 – 3 mmcf/day

CNG Application/Project Features:

- Smaller Volumes
- Shorter Transport Distances
- Less Storage
- Faster Deployment

LNG

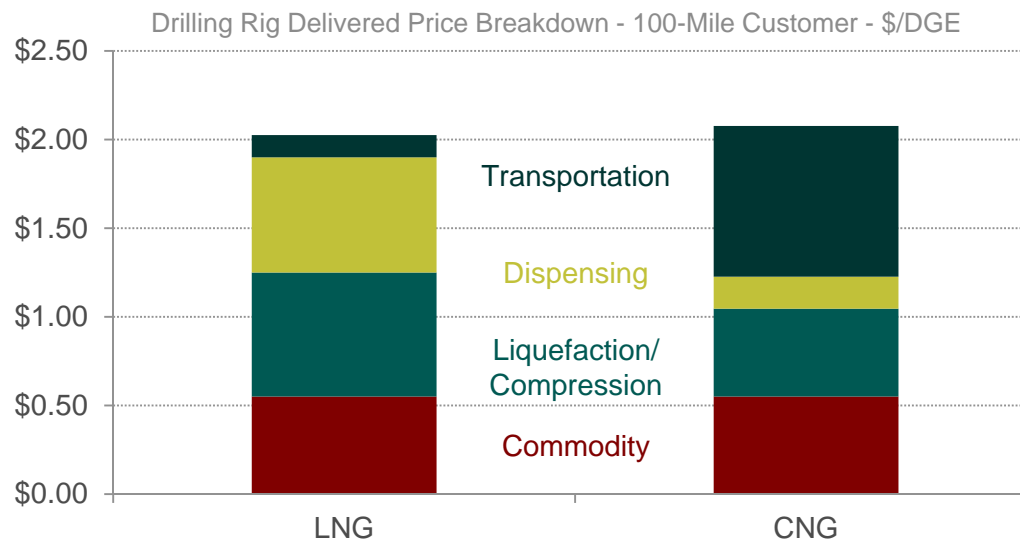
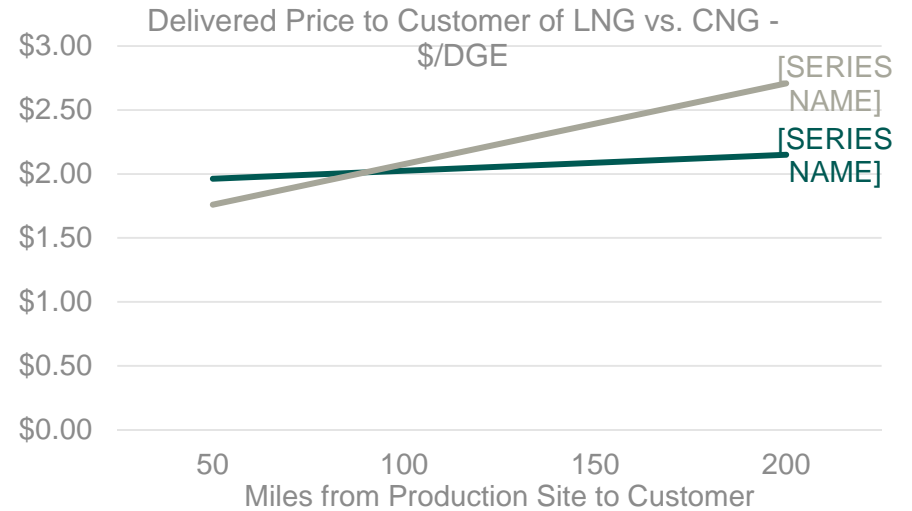
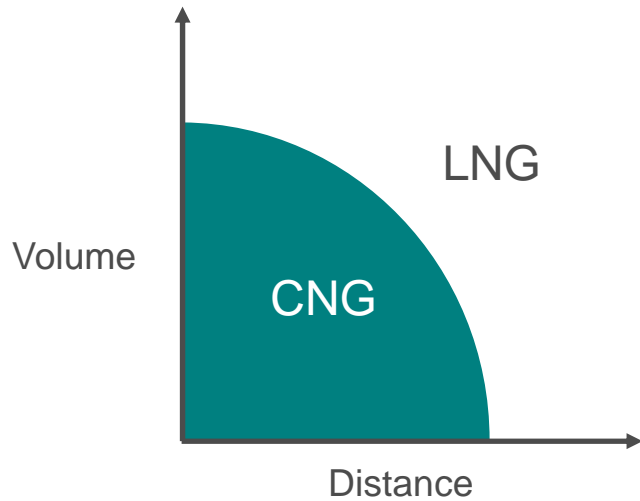
Temperature:		-160°C (-260°F)
Pressure:		25 - 50 PSI
Volume:		1:600 Volume Ratio
Project CAPEX:		\$50M - \$200 M
Facility Size:		10 – 30 mmcf/day

LNG Application/Project Features:

- Larger Volumes
- Shorter Transport Distances
- More Storage
- Longer Projects

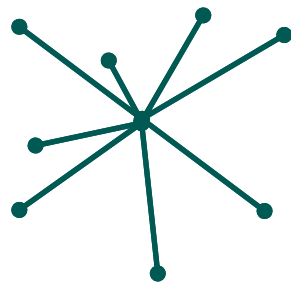
Both are delivered to the engine as a gas

CNG vs. LNG



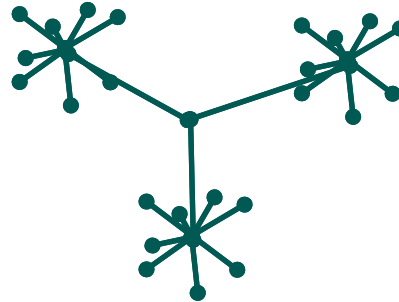
Localized Natural Gas Networks

Point-to-Point



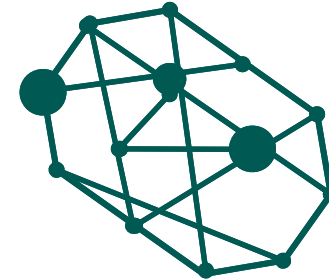
Developing Phase:
Limited infrastructure and less developed institutions

Hub and Spoke



Growth Phase:
Anchoring networks around large scale supply and demand

Integrated



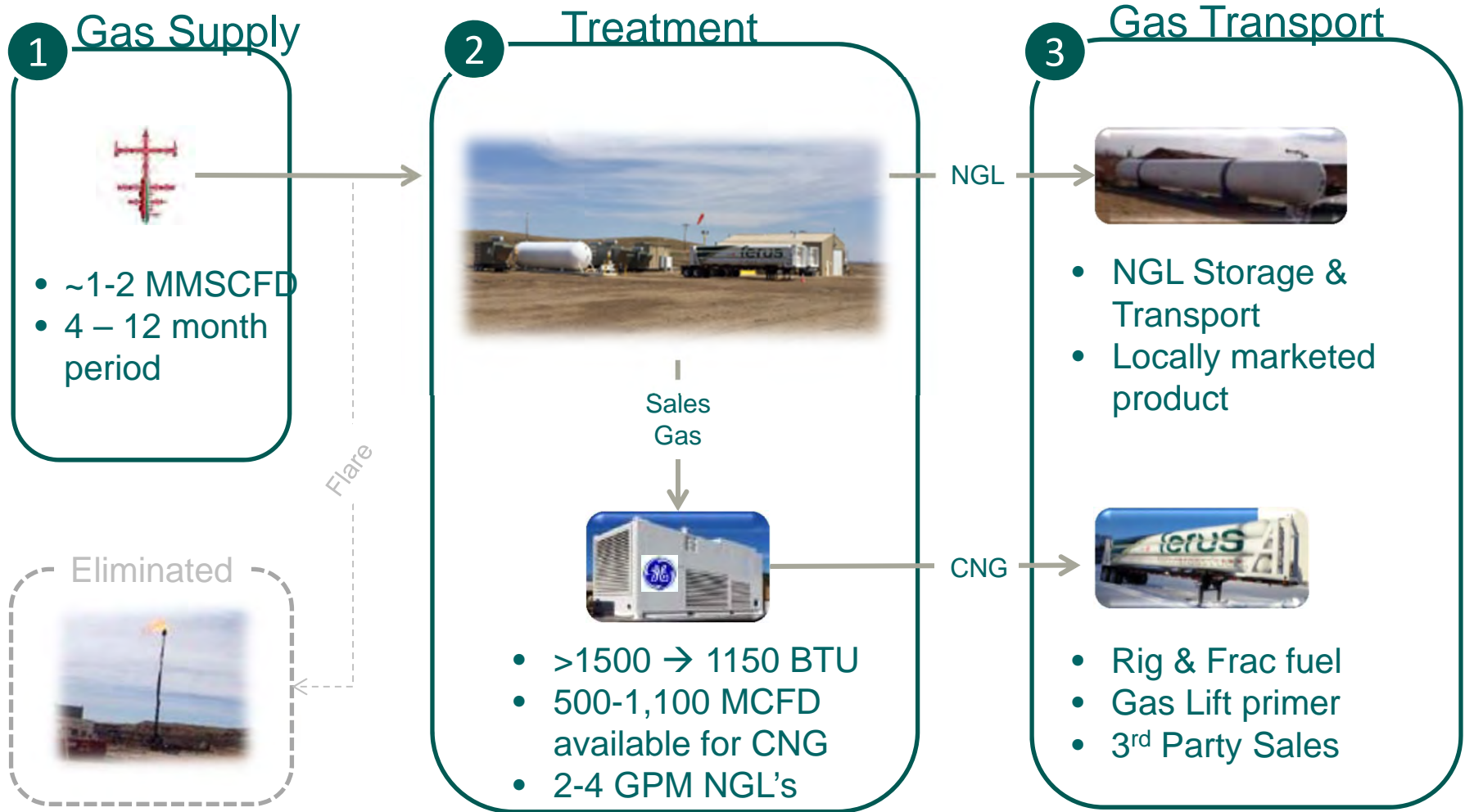
Mature Phase:
Extensive networks, overlapping networks

CNG supply chain

Last Mile™ Flare to Fueling

Turnkey gas capture service (example)

Gas





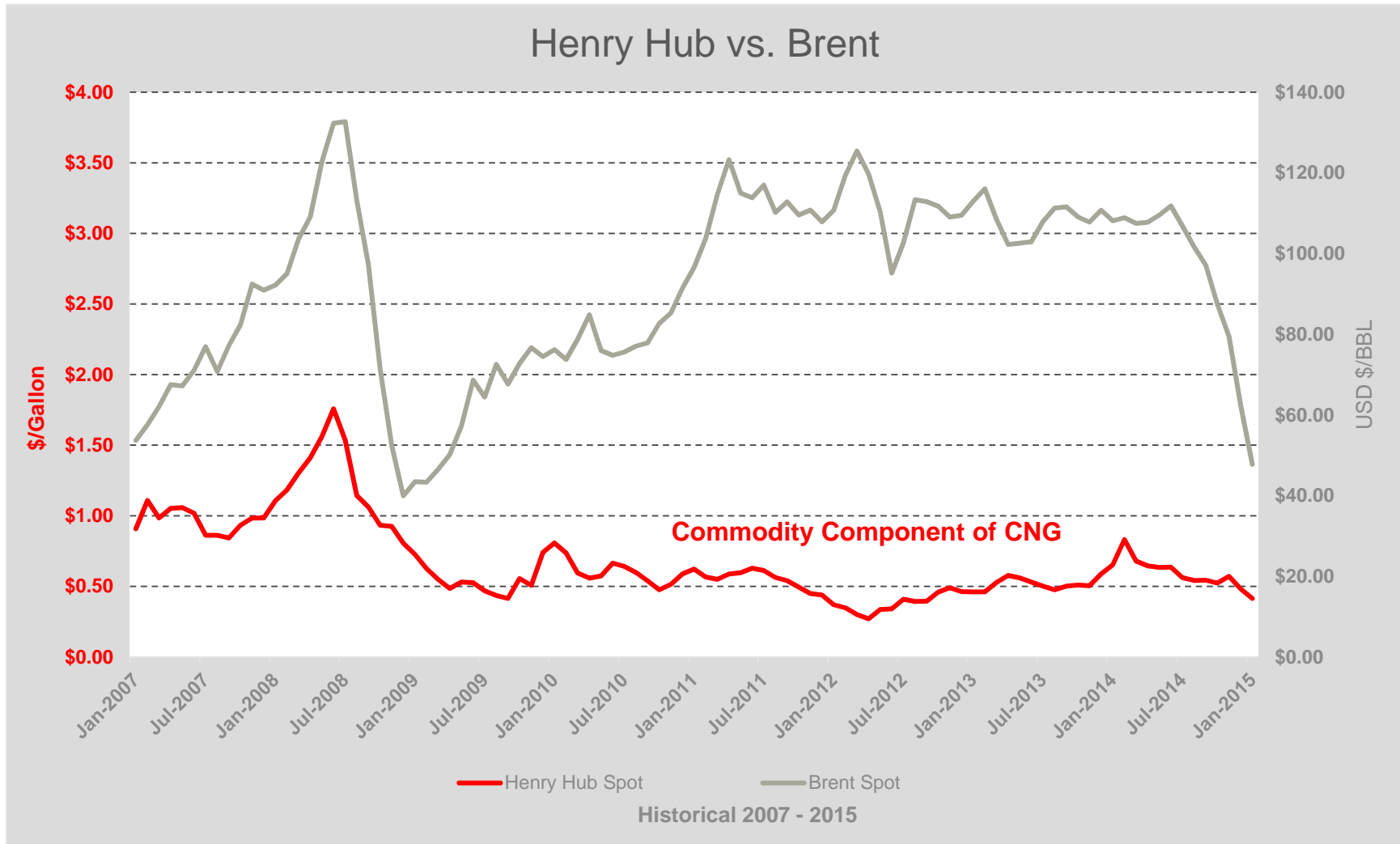
North Dakota Pilot Project Site



Last Mile™ Infrastructure

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Historical Diesel vs. Natural Gas



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