



Kinetrex Energy LNG, Natural Gas for Asphalt Plants



Agenda

- Kinetrex Energy – Revolutionizing Energy Delivery
- What is Liquefied Natural Gas
- Benefits of LNG in the Asphalt Industry

Revolutionizing Delivery of Natural Gas with LNG

Steps to Success

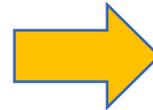
Environmental

Simple

Cost Effective

Reliable

Safe



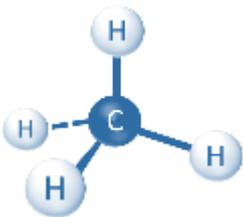
Integrated Products



What is LNG?

PRODUCTION

NATURAL GAS SUPPLY



PRE-TREATMENT



REMOVE WATER AND CO₂ FROM NATURAL GAS

URNS TO LIQUID AT -260°F



LNG OCCUPIES 1/600TH OF ITS VOLUME AS A GAS



CONSUMPTION



LNG Transport to Customer's Facility



LNG Storage and Vaporization equipment to create Virtual Pipeline

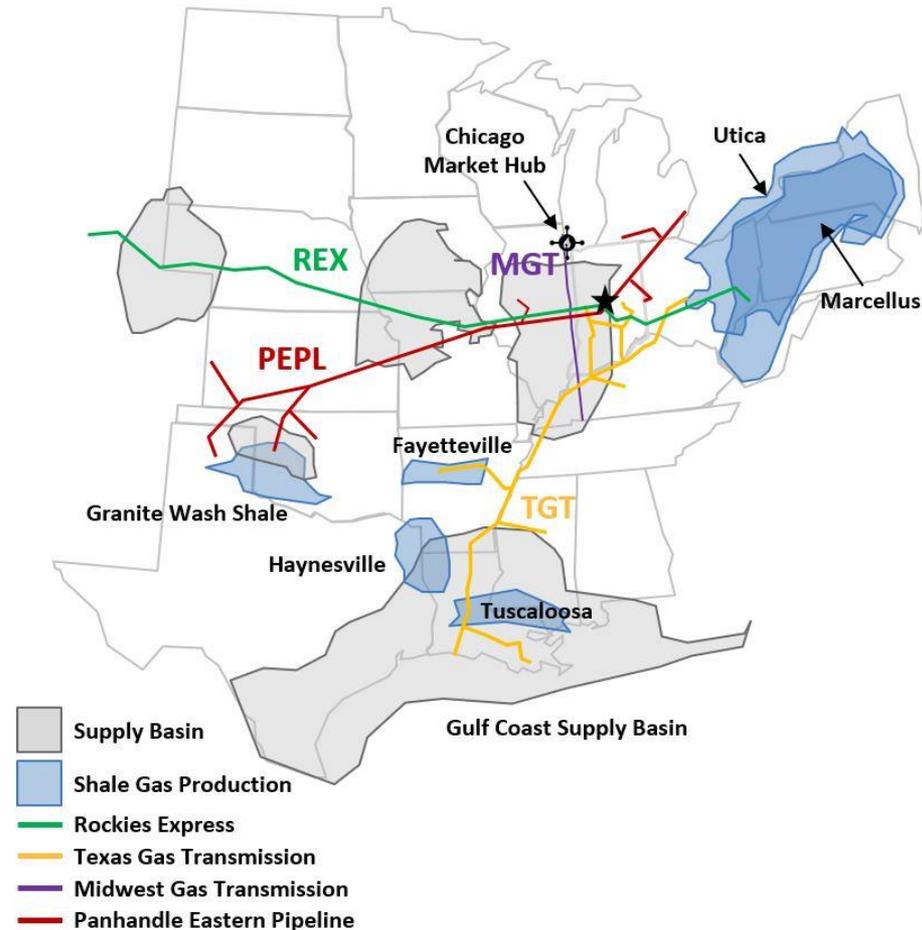


End Use Customer

Reliability of LNG

Two Indianapolis LNG plants

- Redundant storage, liquefaction and truck loading
- 2 BCF of LNG storage capacity
- Approximately 20,000 DTH per day of liquefaction and capable of expanding within 12 months
- LNG plants are connected to REX, MGT, Texas Gas and PEPL
- Automated truck loading capable of dispensing 80,000 DTH per day
- Plants are open 24/7/365



Benefits of LNG



Turnkey LNG Operations

- Kinetrex manages the design, procurement, installation and commissioning of permanent and customized LNG systems.
- Mobile customer application allows for remote monitoring of storage tank levels, delivery timing, billing information and more.
- Kinetrex Energy Transportation utilizes LNG trucks with trained field system technicians for fuel delivery to provide unique customer experience.

OUR PROCESS IS SIMPLE...



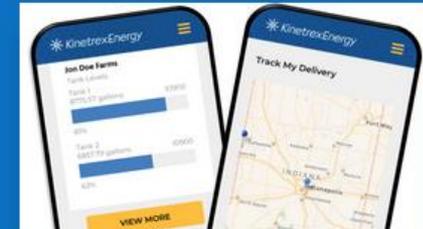
1. Design

Custom-designed system to meet your specific technical needs



2. Install

System installed by Kinetrex Field Services team



3. Monitor

24/7/365 monitoring of gas flow, storage levels, deliveries, safety and more

Turnkey LNG Operations: SRS System

Vaporization

- Gas fired, electric, and ambient, systems utilized based on peak flows and ambient conditions
- Sizes vary based on peak flow demands
- Trim heater
- Control panel and a distribution skid containing a regulator, automatic shut down (ESD), and odorization
- Gas and Fire Detection
- PLC for remote monitoring

Storage

- ISO container, or
- Cryogenic 338 trailer. One trailer remains on-site with replacement trailer as needed



LNG is Safe

- Vapors only flammable within concentration of ~5-15% gas in air; emits a very lazy flame
- Natural gas as a liquid will not explode
- Operating pressure is 50-150 psi
- If spilled, LNG will evaporate and have no residual impact to the environment
- LNG is colorless, odorless and non corrosive
- All systems have gas & fire detection, as well as odorizing

	LNG	PROPANE	DIESEL
Ignition Temperature (°F)	1004	842	437
Leaks & Spills	Vaporizes to atmosphere	Gathers in low areas	Puddles on ground
Boiling Point (°F)	-260	-44	370+

Benefits of LNG in the Asphalt Industry

Affordable, Stable Pricing

- First of Month NYMEX Settlement Price, which can be hedged, in month of delivery → reduces daily price risk exposure

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Gas Stored On-System

- Kinetrex is vertically integrated, offering:
LNG Supply, Transport, and Equipment & Ongoing Maintenance & Monitoring

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- Natural gas is a much cleaner fuel than waste oil or diesel, thus reducing operational and maintenance costs associated with RFO

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Cleaner Air

- LNG has 56% less CO₂ emissions emitted than waste oil
- Reduced EPA Reporting

Interested in Learning More?

Kristin Maguire

Senior Business Development Manager

(317) 294 - 8635

kmaguire@kinetrexenergy.com