

Leading Change. LNG Fueling Solutions for Drilling and Completion.



LNG fuel Powering drilling rigs and completion equipment with cryogenically liquefied natural gas (LNG) makes economic, environmental and operational sense. An alternative to diesel and electricity, LNG is poised to become the choice of the oil and gas industry for exploration and production. Oil and gas companies using LNG for drilling and completion reap such benefits as:

- Cost savings
- Reduced local air emissions
- Ability to use a 100% domestically produced fuel
- Ease of transport, storage and use

Make the switch Converting to LNG fuel is affordable and easy. Linde helps determine the best method currently available to convert your engines and gensets, and we have established preferred relationships with select technology and equipment vendors. The cost of conversion is typically recouped in less than a year.

Why LNG? LNG can be sourced domestically, unlike imported diesel fuel. With new technologies to tap vast natural gas reserves, prices are at historic lows and predicted to remain stable for the foreseeable future. In addition, LNG is recognized for its lower air emissions.

Why Linde for LNG? Linde, the leading global cryogenic liquids and engineering company, is the ideal partner for oil and gas operating and service companies planning to use LNG. We focus on the full set of customer needs and provide the LNG, equipment and services to sustain drilling and completion operations. We have honed these skills over decades by supplying cryogenic gases, including carbon dioxide and liquid nitrogen, and providing well-site services to oil and gas rigs for stimulation and fracturing.

Our core competencies include:

- Cryogenic product handling
- Safety
- Logistics
- Customer service
- Application and production technologies for efficient, safe liquefied natural gas supply and use

Partner with Linde Working with Linde, you get a comprehensive and customized approach to high-quality fuel supply. We own and operate more than 1,000 plants worldwide and safely and reliably make several million deliveries of cryogenic gases each year. In North America alone, Linde makes more than 1,000 bulk cryogenic liquid deliveries a day, serving over 10,000 customers.

Linde Traditions For more than 100 years, Linde has led the way in cryogenic gas project development, plant operations, distribution and logistics, and management of assets for customers. For drilling and completion using LNG, Linde is your partner for safety, reliability, cost savings and excellent customer service.

Safety Because of the hazards that natural gas poses, Linde, a ResponsibleCare® company, provides specialized design and engineering expertise, and is skilled in HAZOP and emergency response planning. We offer major hazard reviews, process safety management and loss prevention programs, and emergency response and personnel safety protection systems. The results have led to world-class performance and numerous safety awards.

Reliability You can count on the reliability and quality of Linde products. We have a top rating in the cryogenic gases industry for on-time delivery, 24/7/365. Our world-class logistics skills ensure proper management of LNG fuel supply networks. We optimize programs for product supply, including forecasting, scheduling and dispatch. Applying decades of experience to specific customer situations has resulted in reliable plant and field operations, consistent product output and quality, and peak performance. Linde has the expertise to manage multiple plants that form a natural gas fuel supply network.

Cost Savings Linde works with you to reduce costs, through careful equipment selection and integration of our design and engineering services with your personnel and contractors. We evaluate site-specific needs and local product requirements and undertake ongoing remote monitoring and maintenance. Relying on Linde personnel allows E&P companies to avoid costly staffing and redundant training.

Service ISO9002-certified since 1994, Linde provides remote operations capabilities, services support and coordination of deliveries and tank-related services, as well as predictive and preventive maintenance. Proprietary software enables us to efficiently deliver product when and where it is needed at any time, 365 days a year.

Talk to Linde Linde has the experience and know-how to enable world-class approaches to drilling and completion using LNG fuel.

Learn more about LNG for drilling and completion at www.lindelng.com.

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