



# LNG Solutions for Your High Horsepower Needs

Clean Energy®  
**CRYOGENICS**



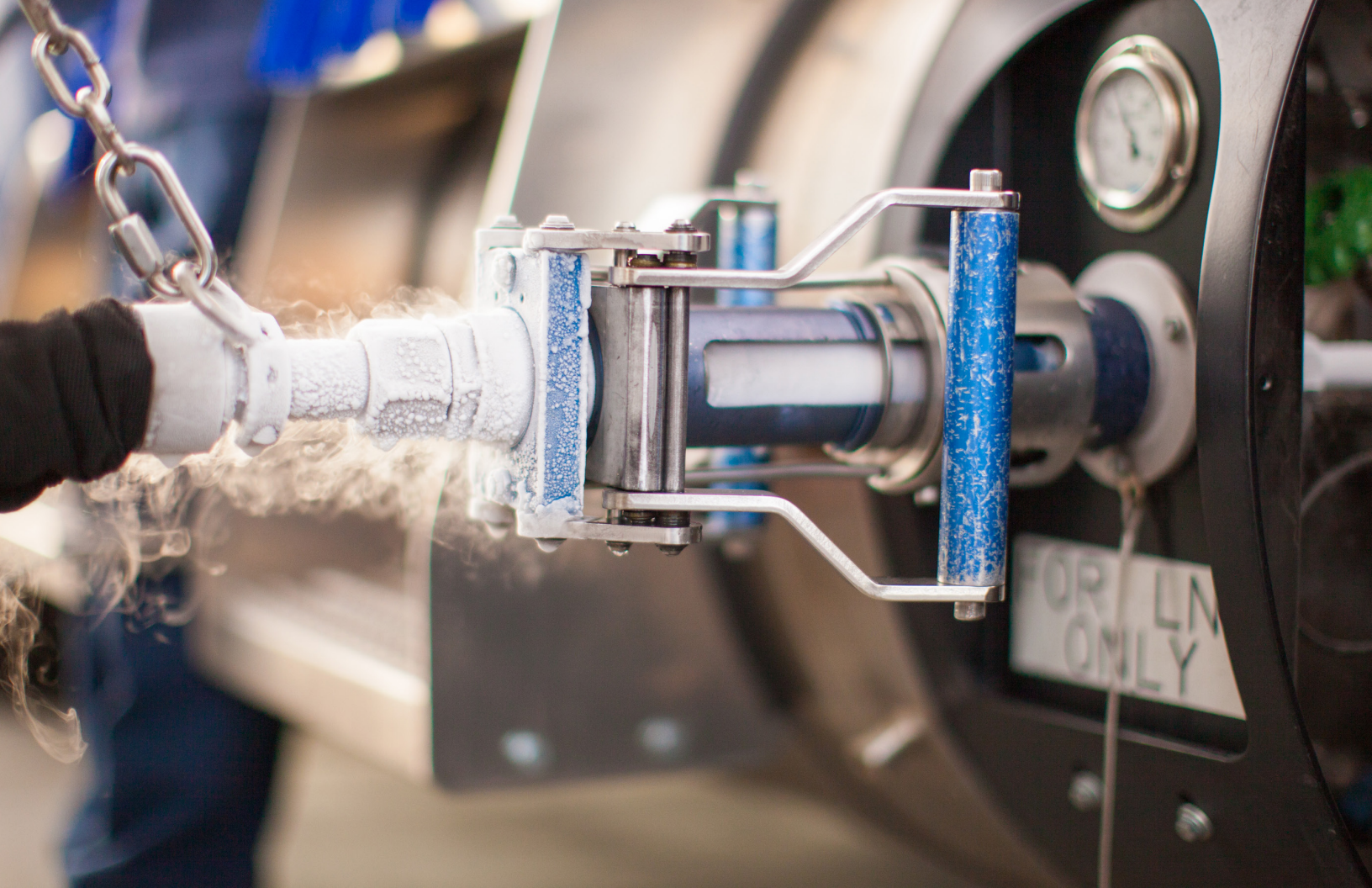


## Why LNG?

- **Economical**  
Save with stable, less volatile fuel cost\*
- **Domestic**  
Natural gas is abundant in North America and fuels the growth of our economy
- **Cleaner**  
Reduce your fleet's carbon footprint by up to 70%\*\*
- **Safe**  
20 million+ vehicles around the world are fueling safely with natural gas
- **Competitive Edge**  
Put your green foot forward and attract new customers
- **Reduce Maintenance**  
LNG runs cleaner, protecting your engines

\* When compared to gasoline or diesel

\*\* Applies to fleets fueled with Redeem® LNG



## LNG Expertise for Your High Horsepower Needs

Whether you're interested in our standard designs, customized solutions, or upgrading your existing facilities and equipment, we are the LNG partner of choice for high horsepower applications including vehicle, marine, mining and rail.

### A Proven Track Record You Can Trust

For over 20 years, Clean Energy Cryogenics has engineered, fabricated, installed and maintained natural gas fueling stations across North America. As an ASME certified pressure vessel manufacturer and B31.3 piping systems expert, we offer proprietary equipment that is the most advanced and highest quality available today.

### State-of-the-Art Service

Our designs offer LNG and LNG & CNG combination fueling solutions, custom-fit to your application and optimized with the highest performing systems in the industry. Quality and reliability begins with superior design and fabrication and continues with ongoing support from our nationwide network of customer service technicians.



#### Engineering & Construction

Build your LNG facility with our engineering and drafting teams who have designed and constructed over 70% of the LNG stations in North America.



#### Technology & Equipment

Minimize operating costs and prolong the life of your investment using customized, proprietary LNG equipment we design, manufacture, install and maintain.



#### Operations & Support

Fuel confidently knowing that our nationwide technician team is on standby 24/7 to keep your station up and running under any circumstances.



#### Financing & Grants

Realize your financial goals and keep your business moving forward with our financing, grant, and leasing solutions.

## Customized Stainless Steel Vacuum Jacketed Piping

We custom design and manufacture piping systems based on your needs and your station layout, eliminating inefficiencies, minimizing installation time and operating costs.

- Increases LNG storage times
- Maintains insulation factor longer *(when compared to other forms of insulation)*
- Tailored to your facility's design and layout

## LNG Load Racks for Liquefaction Plants

We design, manufacture and install LNG load racks to transfer fuel from large liquefaction storage tanks into LNG tanker trailers for transport. Our LNG Load Racks feature:

- Single or dual trailer loading systems
- Optional custody transfer metering and gas chromatography and weigh scale filling
- PLC easily integrated with liquefaction control systems
- Easy (new or existing) facility installation

## Mobile LNG Fueling Systems

For high horsepower fleets without access to a LNG fueling station or for projects that require only temporary LNG fueling, we can design and deliver a mobile LNG fueling system. A mobile LNG fueling station “on wheels,” our system consists of a 16,000 gallon LNG tank with all components and equipment mounted to a trailer.

- Customized storage capacity and flow rates available
- Remote monitoring and support

## LNG Station Components



### 1 OFFLOAD PUMP SKID

Used to pump the LNG out of the trailer at 120 to 150 gallons per minute (GPM); offload time is between 1.5 to 2 hours.

### 2 PROCESS SKID

Used for dispensing and saturation operations.

### 3 LNG STORAGE TANK

Above ground storage with a recommended volume up to 18,000 gallons; other capacities available.

### 4 FAST-FUEL LNG DISPENSER

Single hose dispenser with flow rates up to 23 DGE/min.

### 5 TIME-FILL POST (OPTIONAL)

A fill hose at a parking stall connected to a common supply.



### SAFE-FILL TECHNOLOGY

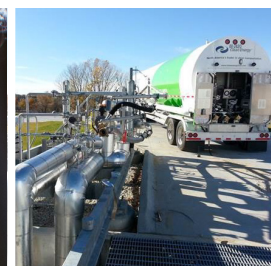
Clean Energy's advanced patented leak detection system.



## Customized LNG Systems

Our storage, pumping and dispensing systems safely and reliably transfer LNG into your LNG-powered equipment. We design and manufacture the pump skids, piping, LNG dispensers and control systems used in our facilities, ensuring the highest quality equipment and installation for your application.

- Weights and Measures compliant custody transfer systems
- Improves thermal performance by reducing the heat entering the piping system
- Features PLC control and safety systems with remote access capabilities
- Customized design to meet your specific application and budget





## Let us find the right fueling solution for you.

Clean Energy® is a pioneer in creating comprehensive natural gas fueling solutions for the transportation industry. We continually invest in developing and manufacturing new technologies. This means everything we do — from designing and operating stations, to helping you navigate financing options, gives you one of the most advanced fleets on the road today. The switch to natural gas fuel is easier and more affordable than you think. Start saving money from day one, and reduce your carbon footprint with the leading domestic, alternative fueling solution.

To learn more, call the **Clean Energy** team today.

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