



LNG VEHICLE FLEET FUELING SOLUTIONS





Innovation. Experience. Performance.®

About Chart

Our focus is cryogenic systems. Chart is a recognized global brand for the design and manufacture of highly engineered cryogenic equipment used throughout the liquid natural gas supply chain.

We express our brand promise through our tagline

Innovation Experience Performance.®

Innovation – We are passionate about what we do and dedicated to continuous and innovative development.

Experience – Customers rely on our knowledge because we are experts in our field.

Performance – We fulfil expectations. We respect our customers and are committed to meeting their needs.

Chart Vacuum Technology®

Providing the best insulation system to protect your valuable gases from harsh ambient conditions results in lower pressure rise and lower losses, yielding better gas utilization. Chart Vacuum Technology® is at the core of why Chart is recognized around the world as the premier supplier of cryogenic equipment.



Using natural gas to fuel vehicles reduces greenhouse gas emissions by 30 percent versus conventional liquid fuels.





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Chart LNG/LCNG Vehicle Fueling Stations

Chart vehicle fueling stations are dedicated to safely and reliably delivering fuel for all natural gas vehicles (NGV) and fleets. LNG is typically used for heavy duty vehicles, including trucks, buses and special handling vehicles, and CNG for passenger cars and vans. We offer a complete range of sizes, from private, relocatable stations through to ones with multiple dispensers open to both the public and fleet operators. All stations are offered with a comprehensive package of options enabling the customer to tailor according to individual requirements. Modular design permits multi-stage investment and expansion according to capacity requirements.

Chart LNG/LCNG stations are structurally similar to gasoline and diesel stations and both types deliver a liquid fuel. However, because LNG is stored and dispensed as a super-cooled liquid it requires Chart specialty cryogenic equipment, technology and expertise. Safety, reliability, the environment and total cost of ownership are paramount and our designs incorporate a number of specialty features for boil off gas and heat management, including Saturation on the Fly (SoF) vaporization, liquid nitrogen cooling and an external natural gas compressor. The stations offer fully automated operation, remote control access and are loaded with our latest technology for maximum accuracy and operational comfort. A combined solution with LNG and CNG dispensing from a single LNG storage tank facilitates maximum station utilisation, advanced boil-off gas management and business flexibility.

Chart provides a full turnkey package including engineering, equipment manufacturing, delivery, installation and commissioning.

Chart is the leading technology supplier for NGV fueling and associated infrastructure.





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LNG/LCNG Permanent Vehicle Fueling Stations

The proven ergonomic design of our fully automated LNG/LCNG Permanent Vehicle Fueling Stations affords both station operators and drivers maximum comfort and convenience with the complete entire fueling process, including card payment, completed inside 7 minutes.

Chart's scope includes the latest generation "Dynaflow" LNG dispenser, engineered to operate fully in ambient temperatures down to -40°C. The system measures real time density of the LNG delivered to a vehicle for the most precise LNG metering and accurate accounting. The metering system carries a life time guarantee and is completely compatible with Saturation on the Fly (SoF) technology.

Features

- Complete solution from design to commissioning
- LNG, LCNG or combined duel fuel systems available
- Low maintenance and lowest operational costs
- Wide variety of solutions to suit any vehicle fleet size





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Skid Mounted LNG Vehicle Fueling Stations

The skid mounted station consists of just two modules and is ideal for mid-sized vehicle fleets. Typical sites include private company yards and small ports and this compact unit is also suited to remote locations. It is easily relocatable and therefore makes an excellent temporary fueling solution.

Chart offers a full service scope and “Plug and Play” installation is typically completed within just a few days. The stations offer fully automated operation and remote control access and are loaded with our latest technology for maximum safety, accuracy and convenience. An additional CNG module can be incorporated to offer a complete natural gas fueling service for LNG, CNG and bio-gas vehicles.

Features

Portable

Minimal footprint

“Plug and Play” installation

Compact, high performance solution





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Mobile LNG Vehicle Fueling Stations & LNG MicroFueler

The mobile station is based on a 20' or 40' ISO intermodal container. It is equipped with the highly accurate 'Flowcom 3000' flowmeter, delivery note printer, and hydraulic on-board pump. Fuel is dispensed direct to the vehicle fuel tank via a flexible hose that is capable of delivering up to 190 litres per minute. Capable of fueling up to 15 vehicles per day, the mobile station requires no civil work and is an ideal entry level solution for start-up and test projects.

Features

- No civil work required
- Transportable and flexible
- Time and place independent
- Optional fully autonomous energy source

LNG MicroFueler is a palletized cylinder designed for temporary storage of LNG when fueling or defueling vehicle tanks. The all-round protection frame and rugged construction mean it can be transported even when full of product.



Flexible, highly adaptable mobile fueling solutions





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On-Board LNG Fuel Tanks

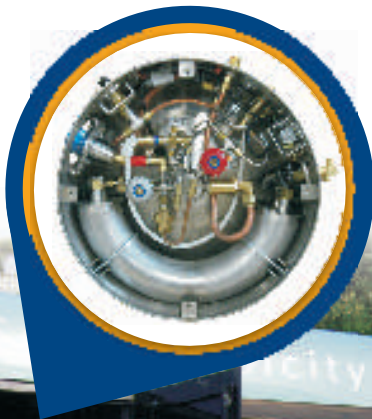
Chart works with many of the leading truck and bus manufacturers to provide vehicle fuel tanks with the highest levels of safety, quality, reliability and compatibility. All of our proprietary designs feature austenitic stainless steel inner and outer vessels and plumbing components manufactured from high quality stainless steel, brass and copper. Two main models are available for the European market, the UNECE R110 approved system in which the LNG vaporizer and automatic shut-off valve are installed inside the tank's shroud, and the previous TPED version in which those two components are external to the tank.

Features

- Single hose filling
- Superior holding time
- Proven, state of the art design
- Full compliance with ECE R110
- Single or dual tank configurations
- LNG dedicated or dual fuel vehicles

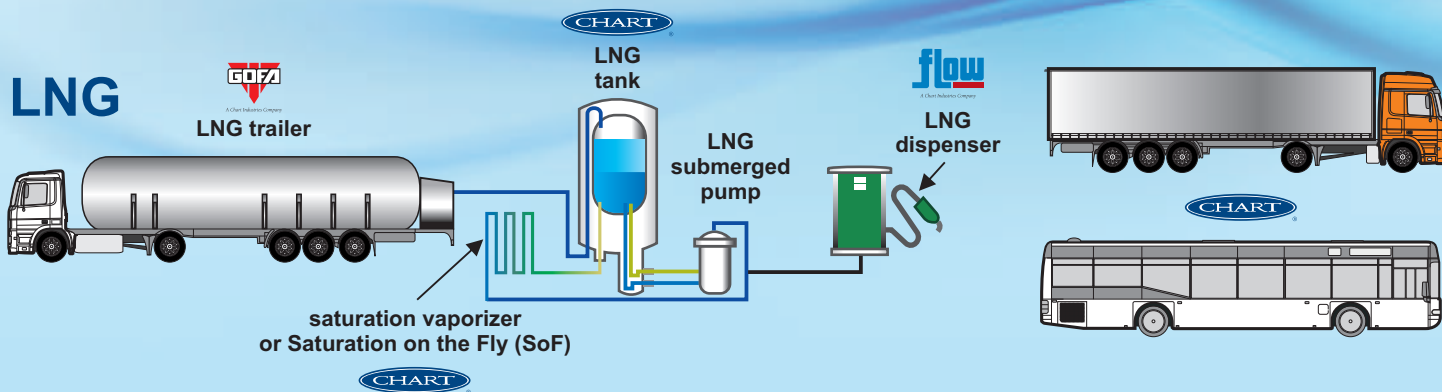


Customized solution according to your fleet vehicle needs.

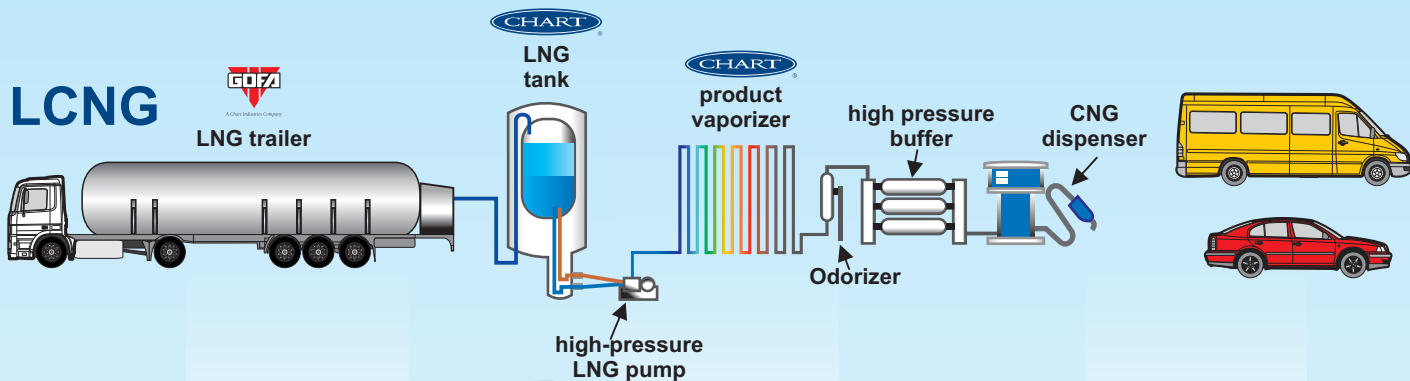




LNG fueled heavy duty trucks & buses



CNG fueled light goods vehicles & cars



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