



Case Study LNG #14

Natural Gas Fueling Stations

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Highlights:

Locations — China, Europe & North America

Scope of Projects:

- Custom engineered fueling stations for natural gas vehicles (NGVs)
- Stations can be privately owned and operated for a dedicated fleet or open to the general public
- Stations comprise Chart Vacuum Technology® and proprietary, best in class equipment

Application:

Safely and reliably deliver fuel for natural gas powered vehicles. Because of its increased driving range, LNG is typically used for heavy duty vehicles, including trucks, buses and special handling vehicles. CNG is utilized for passenger cars and vans. Chart has built small standardized, single pump, temporary (or relocatable) units through to fully customized facilities with multiple dispensers. Stations are both privately owned and operated by companies to fuel their own fleet, or communal and available to all fleet operators and the general public.

System Configuration:

- Structurally, a Chart LNG/LCNG fueling station is similar to its gasoline and diesel counterpart as both deliver liquid fuel. However, because LNG is stored and dispensed as a super-cooled liquid, it requires special cryogenic equipment
- Chart Vacuum Technology® keeps operating costs to a minimum
- Fully modular design means that stations can be expanded quickly, easily and economically to keep pace with demand
- Full turnkey scope including engineering, equipment manufacture, delivery to site, installation and commissioning
- All stations feature fully automated operation, remote control access, ergonomic design and are loaded with our latest technology for maximum safety, accuracy, efficiency and operational comfort

Accomplishments:

- PetroChina station in Changzhou fuels over 240 buses every day
- Station in Warsaw, Poland fuelled its 2,000th bus in 2015 and has continued to fuel 35 more each day since
- Chart stations in Finland are actively contributing to the country's stated intention to reduce greenhouse gases and harmful diesel emissions
- Designed and built equipment for the first 20 Shell fuel stations in the US

