Small volume – high energy density.

Stations for the liquefaction or compression of natural gas decrease the volume of natural gas and increase the energy density per m³ enormous. The liquefied or compressed gas could be easily transported by truck, train or ship to the consumers. Via a direct regasification or and storage and regasification in satellite stations the natural gas could be feed into existing or new networks.
Natural gas liquefaction and compression plants

Containerized or skid-mounted

Each CRYOTEC plant is custom-made and can be equipped with various treatment processes for the rough natural gas according to specific requirements of the rough natural gas, applications of the customer and ambient conditions also higher capacities are possible.

Our natural gas liquefaction and compression plants are destined for the application of natural gas treatment and designed as containerized or skid-mounted modules. Together with our re-gasification stations remote regions can be supplied with cheap natural gas. The re-gasification system allows also the storing and supplying of natural gas on demand in case of increasing the gas consumption (peak load).

In addition to this usage we also offer refueling solution to fuel different types of vehicles. Three types of fuel are possible: compressed natural gas (CNG), liquefied natural gas (LNG) and heavies from the liquefaction process (NGL or LPG).

Technical parameters LNG

Performance / Plant capacity:

- Skid mounted modules or containerized units: 500 - 15,000 kg/h
- Other sizes on request!

Products from LNG liquefaction plant

- LNG – ready for distribution to
  - Local customer for power and heat production
  - Satellite stations for regasification and feed in in local gas network
  - Satellite stations for power production
  - Fuel stations for CNG (up to 300 barg) and LNG (up to 18 barg) – Truck, car, bus etc.
- Fuel from heavies separation – ready for distribution to
  - Local customer for power and heat production
  - Fuel stations for LPG – Truck, car, bus etc.
  - For company own fuel station
  - For company own power and heat production

Application for small-scale LNG plants

- Alternative for high pressure pipelines – transport by truck, container on trailer or train and ship
- Peak load covering via storage and regasification units – seasonal peak loads or peak loads for industrial processes
- Satellite terminals for decentralized supply of natural gas for industrial plants and small end users
- Fuel – LCNG filling stations, power production with CHP, production of heat for industrial plants.