



ECONOMICAL AND CLEAN –
INTO THE FUTURE WITH LNG

THE DIRECT WAY TO A CLEAN MOTOR

A GREEN SOLUTION – THE TGE CONVERSION KIT

Real plug and play without long work shop- or downtime. Readily preassembled on a frame, the closed fuel system can be easily installed on the vehicle. A fast way to implement all advantages of LNG as a propulsion fuel.

- Fast, easy conversion
- Easy and safe operation through easily accessible control valves
- Service-friendly construction – Reduced spare part variety
- High process reliability – while refuelling or on cold start
- More than 400l tank capacity for an attractive range
- Pressure Building Unit (PBU)
- Strong frame construction which can be used as a frame for a storage box or a climbing aid
- Good value for money: purchase and installation costs are significantly lower compared to leading competitors



DIESEL – A SUBSTITUTE IS NECESSARY

Diesel is already established as an energy source for the propulsion of commercial vehicles. There are a lot of advantages regarding availability and energy density but a lot of disadvantages with exhaust and noise emissions.

It is time for an alternative energy source – LNG! No available fuel burns cleaner and is available in such high quantities. Cryogenic storage makes the necessary energy density possible – the clean combustion makes for a much simpler gas treatment. Furthermore gas engines have much lower noise emissions.

LNG – an environmentally friendly solution for all challenges in the commercial vehicle sector.

QUICKLY CONVERT AND SAVE

Most operators could use LNG as an economical alternative to Diesel immediately. TGE can offer the LNG fuel system.

Additionally TGE Gas Engineering provides LNG fuelling stations with storage tank and dispenser as well as operation and service of the installation. TGE offers those for vehicle fleets which are refuelled in the depot.

- Low consumption
- Very low fuel costs
- High quality, pure fuel, thus a clean combustion in the engine
- Low abrasion
- Up to 99% lower fine dust- and particle emissions
- About 81% lower nitrogen oxide emissions
- About 25% lower CO₂ emissions
- Significantly less noise emissions inside and outside
- About 95% lower Sulphur dioxide emissions

ALL THAT SPEAKS IN FAVOUR OF LNG

The natural, fossil resource is available in large quantities. Liquefied natural gas has been established as an energy source for heavy-duty traffic in large parts of the world already for many years. It has a high energy density and the handling is particularly safe: Liquefied natural gas is odourless, neither toxic nor flammable or explosive. Furthermore in case of accidental leakage the liquid vaporizes into non-hazardous natural gas without forming puddles or penetrating into the soil.



30% reduction in fuel costs via conversion!

TGE Gas Engineering looks back at 30 years of experience with storage and transport of cryogenic, liquid gases. As a member of the worldwide active, listed commercial vehicle and logistic group CIMC, we have access to a lot of the necessary parts for the technology. We assemble those parts with other quality parts to a complete module – Kit. The whole unit is certified according to European standard (ECE R110 and other).

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