

TGE LNG Vaporisation System

TGE Gas Engineering GmbH, as a leading EPC Contractor for LNG Re-gasification Terminals has developed a new LNG Vaporisation System (patent application pending).

The TGE concept adopts the use of compact, high efficiency welded plate heat exchangers coupled with a pumped intermediate fluid circuit which is vaporized by water, steam or other readily available heating medium and re-condensed by the vaporising LNG. The natural gas is then heated to export conditions in the super-heater against the heating medium.

Contrary to other schemes, the heat of condensation is transmitted in the novel injection heater and not within the LNG vaporiser. The LNG vaporisation is achieved through the sensible heat from the intermediate fluid in its liquid state. This ensures even distribution of the intermediate fluid in the LNG vaporiser and keeps the temperature gradients within acceptable limits for all operating conditions, leading to a robust arrangement and long lifetime of the heat exchangers.

The particular design features of the TGE LNG Vaporisation System have the following benefits:

- Robust design with long lifetime
- Environmentally friendly concept
- Suitable for a variety of heating media
- No risk of freezing of the heating medium
- Skid mounted pre-assembled units
- Standard road transport of modules
- Short delivery times and fast installation
- Resilience to motion – suitable for offshore plants (FSRUs)
- Competitive investment and operation cost
- Easy maintenance of standard components

All components of the TGE LNG Vaporiser System are well-proven and robust equipment. TGE has extensive experience with all equipments used within the system.

Basic Technical Data

LNG Flow Rates:	50 t/h to 230 t/h
Design Pressure:	up to 140 bar
Design Temperature:	-196°C to +70°C
Intermediate Fluid:	Propane and other
Heating Medium:	Seawater, water, steam, hot oil, etc.

For further information contact info@tge-gas.com

Please look at our website at www.tge-gas.com

