

PROJECT

Project name:
LNG Peak Shaving Plant

Country:
Germany

Client:
RWE Energy
RWE Gasspeicher GmbH

Year:
2004 - 2008

GOC project:
7032



PROJECT DESCRIPTION

Modification and upgrade of an existing LNG peak shaving plant

- 1 x 23,000 m³ double wall LNG storage tank
- NG gas treatment
- NG liquefaction system with mixed refrigerant (MRL) cycle
- Plate fin heat exchanger (PFHX)
- LP and HP LNG pumps
- Submerged combustion LNG Vaporizer (SCV)
- LNG truck loading facility
- LIN plant for conditioning of gas
- Boil off gas handling with HP compressor
- Utility system

PROJECT PHASES

Detailed engineering	Front end engineering design (FEED)
Permitting	Site Supervision
	Start up

GOC DISCIPLINES

Process	Mechanical & Rotating Equipment
LNG Tanks	Piping
E&I	
Civil	

GOC WORK SCOPE

Feasibility study	Warming up of LNG Tank
Detailed engineering	LNG tank modifications
Owner 's engineer	Installation of new submerged LNG pumps
Pre-commissioning	Installation of a new PLC system
Commissioning	Installation of new field instruments
Start-up	Revamping of mechanical equipment
Safety Engineering	Process optimization
Authority Engineering	
Preparation/Participation of a risk-orientated hazard assessment based on PAAG/HAZOP techniques (ROGA)	