

Corporate Profile

Gas Terminals of Tomorrow









WHO WE ARE

- Company Structure
- Locations



WHAT WE DO

- Core Competences
- How we work
- In-house Disciplines



PRODUCT LINES

- Terminals for LNG
- Terminals for PG
- Clean Energy



WHAT WE DID

- References
 - LNG
 - Petrochemicals
- Project Highlights
- Recently signed
 Projects



SUMMARY

- Highlight Figures
- Your Benefit
- Contact Information



WHO WE ARE

Company Structure







Mee

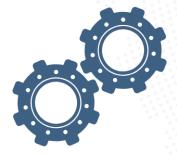
WHAT WE DO

1. 1

How We Work



WE UNDERSTAND OURSELF AS YOUR GENERAL CONTRACTOR FOR EPC PROJECTS PROVIDING THE FOLLOWING SERVICES:





ENGINEERING

PROCUREMENT



PROJECT & CONSTRUCTION MANAGEMENT



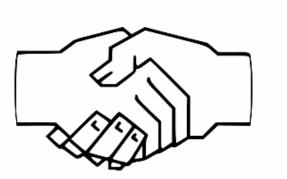


Core Competence

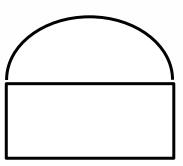




From the idea -



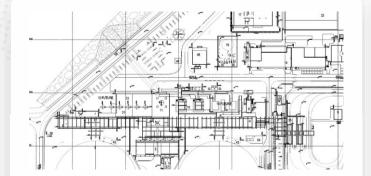
- to the first concept -



- bringing the project to life

All Disciplines In-House





Engineering



Procurement



Construction



Contracting



Project Management



Tank Design



Product Line Terminals & Storages for LNG



RENM

Terminals & Storages for LNG





LNG Tanks & Terminals

- Import / export terminals
- Liquefaction plants
- Sizes up to 250,000 m³
- All relevant infrastructure like ship, truck, container loading / unloading



LNG to Power Plants

- Stand-alone regas-solutions
- Dedicated to an adjacent gas power plant in remote areas
- High level of standardization
- Fast-track and cost-effective delivery



ssLNG Bunkering, Virtual LNG Piplines & other Applications

- LNG plant solutions with a high level of standardization
- Fast-track and cost-effective delivery
- Suitable for remote locations



Product Line Terminals & Storages for Petrochemical Gases



Terminals & Storages for Petrochemical Gases





Cryogenic storage for import, export, buffer or distribution

- Propylene / Ethylene
- Ethane / Butane
- LPG / Propane
- Ammonia / Butadiene



ECTs

• Earth covered tanks for pressurized liquefied gases



Spheres & Bullet tanks

 Horizontal bullet tanks and spheres for pressurized or semi-pressurized storage of liquefied gases



Product Line Innovations for Clean Energy Applications (ICE)

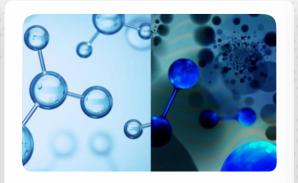
Innovations for Clean Energy Applications (ICE)





Green Ammonia Storage – the future energy carrier

- Ammonia infrastructure concepts
- Tank concepts for the storage of more than 100,000 m³



Multiproduct Storage Terminals

• Concepts for multiproduct storage terminals which are designed from the first project idea for the storage of different products



Plant Conversion and upgrade Engineering Services

- Product change services
- From LNG to Ammonia or others
- Activities to increase the capacities
- Debottlenecking
- Creation of new revenue streams

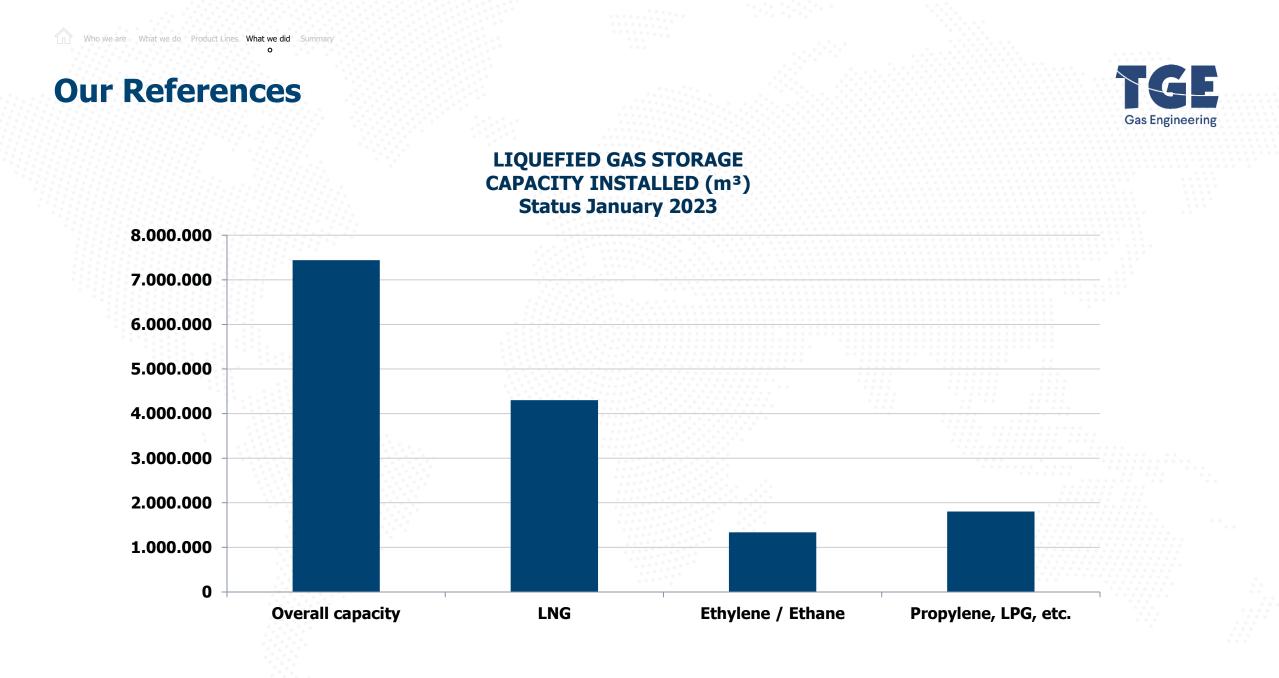


Gas Processing & Treatment Solutions

- Boil off gas treatment unites
- LNG recondenser systems
- Vaporizer packages
- Flare gas recovery
- Various other gas treatment solutions

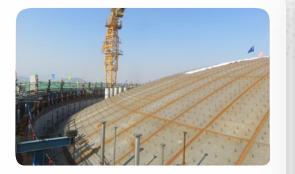


WHAT WE DID



LNG Project Highlights





LNG Terminal Zhoushan

- EPC contract
- 2 x 160,000 m³ tanks
- Full containment tanks
- 6 MTPA terminal capacity



LNG Terminal Mugardos

- EPC contract
- 2 x 150,000 m³ tanks
- Full containment tanks
- 4.8 MTPA terminal capacity



LNG Terminal Guangdong Province

- EPC contract
- 3 x 200,000 m³ LNG tanks
- Full containment (concrete / steel)
- 10 MTPA terminal capacity



LNG Extension Poland

- EPC contract
- 1 x 180,000 m³ tank
- Full containment tank
- Terminal expansion project

Petrochemical Project Highlights





Ethane / Propane Terminal Taixing

- EP+CS contract
- 3 x 160,000 m³ tanks
- Full containment tanks (steel/concrete)
- Ship unloading / loading system
- Propane / ethane liquefaction systems



Ammonia Terminal Izmit

- EP+CS contract
- 1 x 25,000 mt tank
- Full containment tank
 (steel/steel)
- Ship loading / unloading system



Ethane Terminal Grangemouth

- EPC contract
- 1 x 60,000 m³ tank
- Full containment tank
- Ship loading / unloading system



Butane Terminal Antwerp

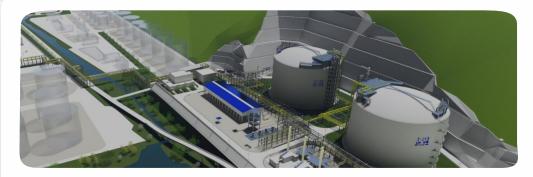
- EPC contract
- 1 x 135,000 m³ tank
- Full containment tank
- Option for future Propylene / Propane operation



WHAT IS NEW

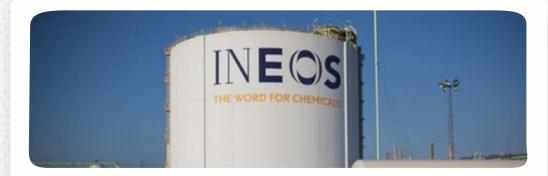
Recently signed Projects





LNG Peak Shaving Terminal Extension, Shenzen

- EPC
- 2 x 160,000 m³ Full containment tank
- Process Plant
- Loading/unloading berth for LNG vessels
- Shenzen, P.R. China



Ethane Tank for INEOS Project One, Antwerp

- EPC contract
- 1 x 197.000 m³ Full containment tank
- Ethane
- Antwerp, Belgium



Summary

Who we are What we do Product Lines What we did Summary

Highlight Figures





Installed Tank Sizes for

- Ethylene 80,000 m³
- Propylene 80,000 m³
- LPG 120,000 m³
- Ethane 160,000 m³
- Ammonia 25,000 mt
- LNG 200,000 m³ (under construction)



Additional Features

- Own tank design
- Own certified inspection team
- References for all relevant design codes
- Working expertise in 22 countries around the world



Working Expertise

- 189 tanks installed
- 96 earth covered tanks
- 86 facilities around the globe
- 7 Mio m³ storage capacity built or under construction

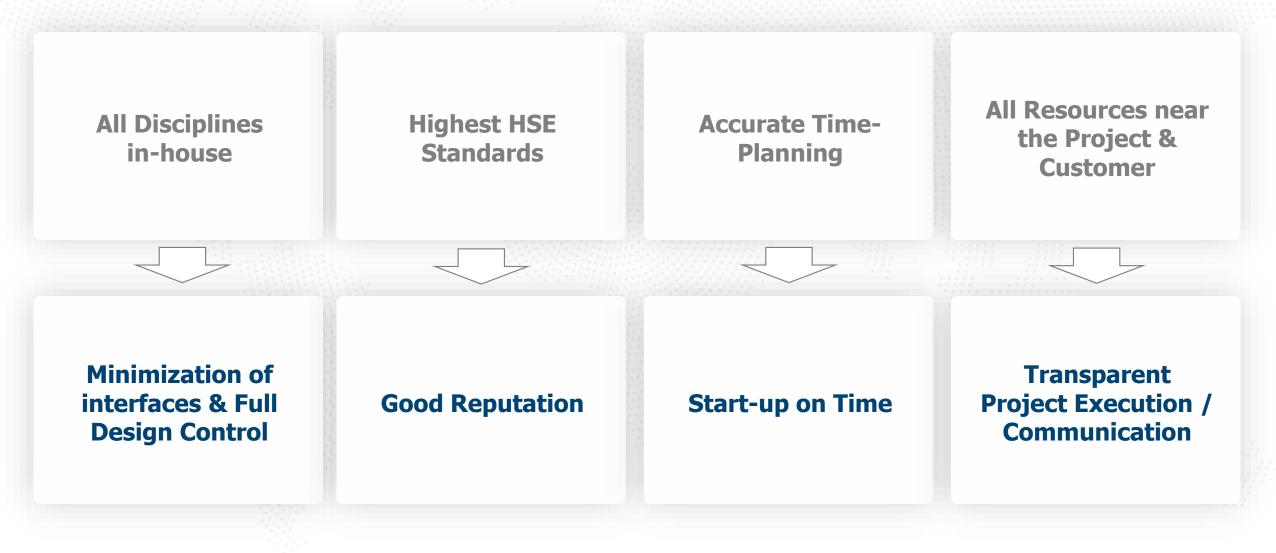


Tank Types / Tank Sizes

- Cryogenic storage for import, export, buffer or distribution
- Earth covered tanks (ECT)
- Horizontal bullet tanks and spheres
- Built 1,200 200,000 m³
- Designed 1,200 250,000 m³

Our Expertise is your Benefit





We are the Experts



43 Years Business Experience

 From initial concept / feasibility study to turn-key lump-sum execution of complete projects as main contractor

Strong References

- For all relevant design codes
- All tank sizes and terminal concepts

Located in Europe and Asia

- With our offices we are always near to the customer and the projects
- Embedded in a group with strong partners and shareholders

Ready for the Future

• We provide innovative and reliable design, made for the future

Gas Terminals of Tomorrow



Contact us

TGE Gas Engineering Mildred-Scheel-Str. 1 53175 Bonn, Germany

+49 228 604480 0 tge-service@tge-gas.com www.tge-gas.com

Follow us



LINKEDIN @TGE Gas Engineering



