Small Scale LNG Plants
with power-, road-, marine- and other functionalities

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- REGASIFICATION FUNCTIONS of a Small Scale LNG Plant

- DISTRIBUTION FUNCTIONS of a Small Scale LNG Plant

- COMBINING functionalities

- Conclusion
Introduction
Concept to Reality
Cost Optimization

Study  Design  Build  Install  Service

Vertical Integration
Proven Track Record
LNG Value Chain
REGASIFICATION FUNCTIONS
Power for (remote) industries
Gas supply into grid
Peak shaving
DISTRIBUTION FUNCTIONS
Ship bunkering

Halhjem, Norway
Ship bunkering

Jacksonville, USA
Semi-trailer / Container Loading
Rail Car Loading
LNG Vehicle Fueling
LNG/LCNG Vehicle Fueling
COMBINING functionalities
Sunndalsora, Norway
Sunndalsora, Norway

3 x 500 m³ storage tanks
Evaporation capacity 4200 Nm³/hr serving aluminum foundry
Trailer loading
Bunkering
Bjugn, Norway

- 3 x 257m³ storage tanks
- 2000Nm³/h ambient air vaporizers
- LNG Bunkering
Ora, Norway

9 tanks with 6400m3 total LNG storage
4500Nm3/h ambient air vaporizers
LNG / gas return lines for ship connection
Truck loading/offloading.
Ora, Norway

First LNG 1000 000 litres cryogenic tank in Europe.
Vermont, USA

Regasification plant for minerals processing facility
Truck fueling station for a fleet of haulage vehicles.
Xuzhou, China

Ship bunker station
Vehicle fueling station
Shanghai, China

Ship bunker station
Vehicle fueling station
GOING OFF-GRID
KLAIPEDA LNG RELOADING STATION IS A SOLUTION FOR REGIONAL OFF-GRID USERS

- LNG reloading (bunkering) to ships
- LNG loading from small-scale carrier (1,000m³/h)
- LNG storage 5x1,000m³
- BOG management unit
- Gas fired heating boilers
- Base electricity supply
- LNG reloading to trucks (2 loading bays)
- LNG pumps

Co-financed by the European Union
Trans-European Transport Network (TEN-T)
Klaipeda
Klaipeda

6000Nm3/h evaporation capacity
Two trailer loading bays 60m3/h
Ship bunkering nominal flow rate 250m3/h, designing flow rate 500m3/h
Conclusion
Considerations

- Stakeholders
- Timeline
- Permitting / FEED
- Metering concept, acceptance by authorities
- Interfaces to ships, trailers,
- Multiply your revenue streams!
Thank you for your attention

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