Flexible Small Scale LNG Bunkering

Frej Olsen
Business Development Manager
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67 years in the Gas Business

“We deliver cleaner energy solutions – good for people and the environment”
Worldwide References

- More than 3,500 plants/larger installations supplied since 1951
- We deliver infrastructure and solutions
- We do not sell gas
Wherever you are, we are
Methods of LNG Bunkering

Source: ABS, USA
## Advantages & Disadvantages

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Source: SSPA, Sweden
## The 4th Option

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Source: SSPA, Sweden
The “Samsø” Project

Project partners:
The Samsoe Project
Prinsesse Isabella
Tender for the Bunkering facility

- No permanent tank on quay-side
- Maximum bunkering time <15 min
- No permanent staff on shore
- Entire facility has to be moved to Samsoe in less than 5 year
- Green Profil = No Emission
- Turnkey
Source of the LNG

GATE Terminal

Port of Hou
LNG Bunkering Unit
Bunkering from Multiple Trailers
Multiple Trailers

- 2-4 Tank Trailers
- Serial or Parallel Connections
- Flow rates from 40-240 m³/h

- 4 Tank Trailers
- 2 Pumps each with 60 m³/h
- Flow rates 120 m³/h
Movable Multiple truck to ship (Movable MTTS)

- 100% autonomous and movable
- Bunkering directly from multiple tank trailers
- 2 - 6 trailers connected
- 40 - 240 m³/h bunkering flow.
- Bunkering of 5-300 m³ per bunker operation

Project partners:
Y-Piece

- Connection of 2 trailers
- Bunkering volume per. trailer < 45m³
- Total volume for two trailers = 90 m³
- Bunkering flow 1000-2000 l/m
Bunker manifold

- Bunkering with on-board trailer pumps
- Bunkering volume per. trailer < 45m³
- Total volume for 4 trailers = 180 m³
- Bunkering flow 1600-4000 l/m

Project partner: ENGIE
Barge/Pontoon
LNG Barges / Bunkering Pontoons

- Bunker Pontoon
- Bunkering volume 1000m³
- Total volume for 4 trailers = 180 m³
- Bunkering flow 500 m³/hour
- Bunker Crane

Project partner:
LNG Bunkering Solutions Overview
P.O. Pedersens Vej 22
DK-8200 Aarhus N
Denmark

Tel. +45 8740 3000
Fax +45 8740 3010