



STENA ELEKTRA  
GÖTEBORG

Connecting Europe  
for a Sustainable Future

**Stena Line**

**Niclas Mårtensson, CEO Stena Line**

*Member of the Swedish Government Electromobility Commission*



# On Shore Power Supply - OPS

- Our first installation in 1990.
- Today operational in 25% of our ports; Gothenburg, Karlskrona, Trelleborg, Norvik, Kiel and Hoek van Holland.
- Presently 40% of our vessels are equipped to accommodate HVSC High Voltage Shore Connection
- Installation cost on a ship abt. €500 k. Installation cost in port abt. €700 – 1,000 k (switchgear, drives, crane, groundwork's, container).
- If renewable electricity – save CO<sub>2</sub>. Also NO<sub>x</sub>, SO<sub>x</sub>, particles and noise – important in urban areas.
- Currently saves about 13,000 mt carbon emissions/year.



# Clean Energy projects



Stena Elektra - 2030



AI assisted Fuel Pilot - 2019



Methanol conversion - 2015



Shore power - 1990  
Today 14 ships



First battery hybrid - 2018



Sea Li-Ion 2021





## Summary

- Stena Line is a first mover in electrification, starting in 1990 and several ongoing projects, including the battery hybrid Stena Jutlandica and 100 % fossil free Stena Elektra in 2030.
- 14 vessels, 40% connected to shore power in 7 ports, 25% Kiel and Trelleborg latest additions.
- Green shore power connections creates greener cities by lowering emissions and less noise.
- Challenging to increase shore power in many places due to lack of interest, high installation costs, high electricity prices and poor infrastructure of green electrical lines.
- Increased electrification of the society demands even more capacity with electric vessels/ hybrid vessels, electric vehicles – tugmasters, trucks and cars.
- High investment costs in infrastructure both ashore and onboard. All stakeholders must carry their own costs.



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Questions?  
Take care!