

Organized by:



Workshop: Batteries and Electrical Energy Storage in Shipping

Thursday, June 22nd 2023

10.00 - 16.00 CET (Refreshments from 9.30)

DFDS House, Marmorvej 18, DK-2100 Copenhagen

Electrification is a central aspect of the green transition of shipping, but lack of commercial electrical energy storage solutions for shipping challenge the speed and the extent at which shipping can make a green transition. Today, batteries are used to electrify local and small ferries either completely or in hybrid setups with fuel cells and combustion engines. Solutions for long distance and heavy shipping are still in their infancy, but showing potential. However, the dominant commercial electrical storage method, lithium batteries, are expensive and in high demand in other sectors. Furthermore, they require critical and scarce raw materials and are energy intensive to produce. Therefore, the industry is currently exploring alternative technologies that may be applied to store energy onboard different types of vessels.

The aim of this workshop is to bring shipowners and operators together with experts from the industry and academia to explore the potential and challenges of different energy storage technologies today and in the future. We will focus on the practical use of batteries, potential alternative core technologies and electrical energy storage methods, recycling and sustainability. We hope to show cases in operation to demystify the topic, bring forward the central challenges, confirm or refuse central myths and stories, and, most importantly, connect central experts across the industry and academia to bridge knowledge and pave the foundation for potential future collaborations.

If you wish to attend, please sign up through [this link](#), no later June 15th, 2023.

There is a cap on the number of participants for this workshop, so please sign up at your earliest convenience.

09.30 - 10.00	Arrival & Refreshments
10.00 - 10.10	Welcome and Introduction to the day
10.10 - 11.00	Shipowners panel <ul style="list-style-type: none">- Mads Billesøe, Head of Innovation, DFDS- Jens-Christian Strate, Maritime Electrical Engineer, Maersk- Hans-Henrik Simonsen, Deputy Technical Director, Molslinjen- Jesper Kristiansen, General Manager - Technical, Hafina
11.00 - 11.15	Break
11.15 - 12.15	Industry panel <ul style="list-style-type: none">- Tunji Adebuseyi, Technical Manager e-Marine, Leclanché- Roger Trinterud, Sales Director, Kongsberg- Søren Bødker, Co-founder & CEO, VisBlue- Louise Drue Andersen, Business Developer - Batteries, Stena Recycling
12.15 - 13.00	Lunch
13.00 - 14.00	Academia panel <ul style="list-style-type: none">- Dorthe Ravnsbæk, Professor, Aarhus University- Daniel-Ioan Stroe, Associate Professor, Aalborg University- Thomas Ebel, Professor, University of Southern Denmark- Ilmar Santos, Professor, Technical University of Denmark
14.00 - 15.00	Breakout workshops Themes (working - subject to change) <ul style="list-style-type: none">- Battery core technologies- Alternative/complimentary technologies (Flywheels, Flow batteries etc.)- Applicability/Optimization of energy grids onboard- Sustainability
15.00 - 15.50	Plenum Discussion
15.50 - 16.00	Round-up and next steps

In collaboration with:

