



# electric & hybrid marine

**EXPO** CONFERENCE

**JUNE 18, 19 & 20, 2024**

RAI AMSTERDAM, NETHERLANDS

## CONFERENCE PROGRAM

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## DAY 1, TUESDAY, JUNE 18

### 08:45 - 09:35 - Keynote presentations

**Moderator**

**Madadh MacLaine**, founder and secretary general, Zero Emissions Ship Technology Association, UK

**08:45 - Case studies for battery-powered mid-size vessels**

**Peter Lystrup Christensen**, head of technology systems, MMKM Center for Zero Carbon Shipping, Denmark

**09:10 - The challenges to ship owners in the decarbonization process, and the responsibilities of equipment manufacturers.**

**Elias Boletis**, chair, CIMAC Working Group 10, Netherlands

### 09:40 - 12:40 - Integration challenges

**Moderator**

**Peter van Duijsen**, researcher, The Hague University of Applied Sciences, Netherlands

**09:40 - Challenges of assessing multi-component powertrains in the early design phase**

**Lukas Kistner**, senior researcher, HD Hyundai Europe R&D Center, Germany

**11:25 - MENENS – holistic grid design optimization of methanol-powered shipping**

**Despoina Mitropoulou**, manager - power systems, RH Marine, Netherlands

**11:50 - Enabling lifecycle performance through the ship's electric grid**

**Dr Makhlof Benatmane**, marine navy solutions leader, GE Power Conversion, UK

**10:05 - Whole ship system integration challenges of maritime energy storage systems**

**Shaun White**, managing director, Foreship Ltd, UK

**12:15 - Surfing the wave of cleantech: integrating marine fuel cell systems**

**Jeremy Bowman**, CTO, Hyper motive, UK

**11:00 - Experiences with integrating fuel cell solutions with batteries in aquaculture vessels**

**Jan-Olaf Willums**, founder, ZEM Energy, Norway

### 13.25 - 15.40 - Battery safety

**Moderator**

**Syb ten Cate Hoedemaker**, managing director, Maritime Battery Forum, Netherlands

**13:35 - Ensuring safe huge battery installations for crew, cargo and vessels**

**Asbjørn Halsebakke**, senior manager, marine concepts, The Switch, Norway

**14:25 - New battery technologies and chemistries on the horizon**

**Chris Kruger**, president, AYK Energy, Andorra

**14:50 - Safe energy storage: principles for reliable marine batteries**

**Maria Miranda-Medina**, validation engineer, Kreisel Electric, Austria

**14:00 - How to make a safe battery installation?**

**Sverre Eriksen**, senior principal engineer, DNV, Norway

**15:15 - Calendar life degradation and how to size for it**

**Trevor Small**, sales director, North America, Echandia Marine AB, Sweden

### 15:45 - 16:35 - Developments in hydrofoiling propulsion

**15:45 - Real-world performance of electric hydrofoiling vessels in commercial operations**

**James Morfee**, principal systems engineer, Seachange New Zealand, New Zealand

**16:10 - Unlocking the potential of waterborne public transportation**

**Brigitte Junker**, head of public affairs and policy, Candela Technology, Sweden



DAY 2, WEDNESDAY, JUNE 19

09:15 - 12:15 - Alternative fuels and energy sources for marine propulsion

**Moderator**

**Lukas Kistner**, senior researcher, HD Hyundai Europe R&D Center, Germany

**09:15 - How does hybridization support the adoption of new fuels?**

**Uwe Heine**, chief technologist, Wärtsilä Marine, Germany

**09:40 - Developing a 375kW power density, marine hydrogen fuel cell module**

**Trevor Downes**, project chief engineer, Ricardo Automotive & Industrial, UK

**10:05 - Using current oil infrastructure for hydrogen storage**

**Thorbjørn Hareide**, business development manager, Hydrogenious LOHC Maritime, Norway

**11:00 - Hydrogen on board – ship safety in light of regulatory aspects**

**Marek Narewski**, principal specialist, Polish Register of Shipping, Poland

**11:25 - A techno-economic assessment of a wind-assisted propulsion solution for a bulker**

**John Buckingham**, chief mechanical engineer, BMT, UK

**11:50 - Decarbonizing heavy-duty shipping: fuel cell solutions and renewable methanol circularity**

**Dr Manfred Stefener**, managing director, Freudenberg e-Power Systems, Germany

13:30 - 17:00 - Developments in fueling and charging infrastructure

**Moderator**

**Roland Teixeira**, president, European Onshore Power Supply Association, Belgium

**13:30 - Project ZEPHR – Zero-Emission Ports Hydrogen Refuelling**

**Chloe Fisher**, project manager, Sea-Kit International, UK

**John Dillon-Leetch**, port hydrographer, Port of London Authority, UK

**13:55 - Port electrification – MW MCS charger for the Port of Amsterdam**

**Kaushik Jadhao**, port electrification manager, Shell Marine, Netherlands

**14:20 - Clean shipping strategies and vision of the Port of Amsterdam**

**Jan Egbertsen**, manager - strategy and innovation, Port of Amsterdam, Netherlands

**15:15 - MAREN – Nordic collaboration for MARitime ENergy transition**

**Jón Björn Skulason**, general manager, Icelandic New Energy Ltd, Iceland

**15:40 - Accelerating the shore power rollout**

**Tiemo Arkesteijn**, director, Rotterdam Shore Power, Netherlands

**16:05 - Operational characteristics and requirements for a four-tug shore-base terminal**

**Marinus Jansen**, global marine technology steward, Caterpillar Inc, Germany

**16:30 - FLEXSHIP concept for vessels' electrification**

**Guido Gommer**, Director Product Strategy, Wabtec, Germany



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DAY 3, THURSDAY, JUNE 20

09:15 - 10:30 - Charging at sea

**Moderator**

**Roland Teixeira**, president, European Onshore Power Supply Assosiation, Belgium

**09:15 - Offshore power buoy charging for wind farm vessels**

**Dorothy Burke**, commercial director, Oasis Marine, UK

**09:40 - A review of offshore charging technology**

**Raymond Bergmann**, CTO, Stillstrom by Maersk, Denmark

**10:05 - Charging battery-powered vessels at sea**

**Håvard Vollset Lien**, VP research and innovation, Vard Group, Norway

**Øystein Longva**, CTO, Vard Electro, Norway

11:00 - 14:30 - Vessel and project case studies

**Moderator**

**Lukas Kistner**, senior researcher, HD Hyundai Europe R&D Center, Germany

**11:00 - Protecting the environment without compromising performance – hybrid case study**

**Tobias Kohl**, director application engineering marine, Rolls-Royce Solutions, Germany

**11:25 - Zero-emission operations in the marine industry**

**Christian Vinther**, account manager, marine, Ballard Power Systems Europe, Denmark

**11:50 - Hydrogen hybridization case study**

**Laurent Perignon**, business development, EODev, France

**13:15 - Hydrogen-electric powertrains for zero-emission service vessels**

**Philippe Davignon**, director, Genevos, France

**13:40 - Decarbonizing service operation vessels (SOVs) – the eSOV**

**Nigel Quinn**, CEO, Bibby Marine Ltd (BML), UK

**14:05 - Creating a better understanding for small operators – case study**

**Dr Juliano Franz**, director of software development, Glas Ocean Electric, Canada

14:35 - 15:00 - Innovation slot

**14:35 - From a DEIF excitation system to an alfa laval methanol fuel filter – how digital twin technology can aid innovation**

**Gert Bunt**, fleet support services manager, MULTI.engineering, Belgium

\*This program may be subject to change



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