

MARITIME HYBRID, ELECTRIC & HYDROGEN FUEL CELLS CONFERENCE & EXHIBITION



29-31 October 2024 • Bergen

#MHEHF2024

Delivering energy efficiency,
emissions reduction and sustainability

Post event report

Executive summary

Scalable solutions, shore power and regulation take centre stage in Bergen

October's Maritime Hybrid, Electric & Hydrogen Fuel Cells Conference showcased the industry's varied strategies for decarbonisation, featuring dedicated programmes on hydrogen fuel cells as well as hybrid and electric solutions.

Day One focused exclusively on hydrogen fuel cell technology. Speakers examined the current market landscape, challenges in scaling hydrogen production for maritime use, and the necessity for strong regulations to support hydrogen-powered vessels.

International case studies illustrated hydrogen technology in action, including the MS Skulebas project—the world's first hydrogen-powered fishing vessel—and the Sea Change project, which is notable as the first hydrogen fuel cell ferry in the US.

On Days Two and Three, discussions expanded to hybrid and electric solutions. Experts highlighted advances in battery technology and alternative fuels including LNG, methanol and ammonia.

A recurring theme was the essential infrastructure needed for widespread adoption of electric and hybrid vessels in ports. Speakers emphasised shore power development and standardisation as critical components for transitioning to zero-emission shipping.

Partnerships within the supply chain was seen as key to overcoming hydrogen technology challenges. For instance, Maersk is prioritising methanol due to safety concerns surrounding ammonia and high hydrogen costs. Their pilot fuel cell projects aim for a 2026 launch but face hurdles in sourcing affordable green methanol. MSC Cruises shared insights on solid

oxide fuel cells, discussing efficiency issues like thermal cycling.

Financial discussions revolved around funding mechanisms such as the EU's Clean Hydrogen Partnership. Experts stressed the importance of dedicated maritime funding to facilitate fleet-wide transitions while addressing the “chicken-and-egg” dilemma between infrastructure development and vessel adoption.

The complexities of designing vessels for new technologies were also explored through case studies that highlighted equipment considerations and crew training needs.

Several vessel owners shared their experiences with hybrid and electric technologies, identifying long-term contracts and crew training as crucial factors for successful implementation. Delegates praised the collaborative atmosphere that encouraged dialogue and knowledge sharing during generous networking throughout the programme.

Running concurrently was a three-day exhibition that provided a platform for companies to showcase products and services.

The evening programme included a drinks reception on Day One and a “Maritime Mingle” networking event hosted by Norwegian Electric Systems on Day Two aboard Havila Polaris. This unique setting allowed attendees to engage with groundbreaking technology firsthand while networking with industry professionals.

Riviera's Maritime Hybrid Electric & Hydrogen Fuel Cells Conference will return to Bergen 14-16 October 2025.

Event summary

180

Attendees

13

Sessions

42

Presentations

15

Networking hours

Canada
2%

United States of America
1%

Denmark
2%

The Netherlands
7%

Iceland
2%

UK
8%

France
2%

Monaco
1%

Italy
1%

Norway
39%

Sweden
4%

Finland
4%

Germany
8%

Switzerland
1%

Czech Republic
2%

Poland
1%

Turkey
8%

Japan
2%

South Korea
4%

Singapore
1%

Company types represented

24%

Governmental, Regulatory, Associations/
Education, Research & Training

21%

Ports, Vessel Operators
& Shipbuilders

9%

Consultancy & Classification

46%

Technology
Providers



I met a lot of people from other organizations who could help connect me to other charterers or cargo owners. It's very good for vessel owners like me."

**Quint Vedder, Head of
Innovation & Projects,
Maris Fiducia**

Attendee breakdown by job function



Great conference,
thanks for having me.”

Elias Van Sickle, COO,
SWITCH Maritime LLC

25%

Executive & Strategic Leadership



35%

Sales, Marketing & Business Development



25%

Technical, Engineering & Project Management



15%

Research, Development & Regulatory Compliance



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92%

Active users

368

Questions asked

594

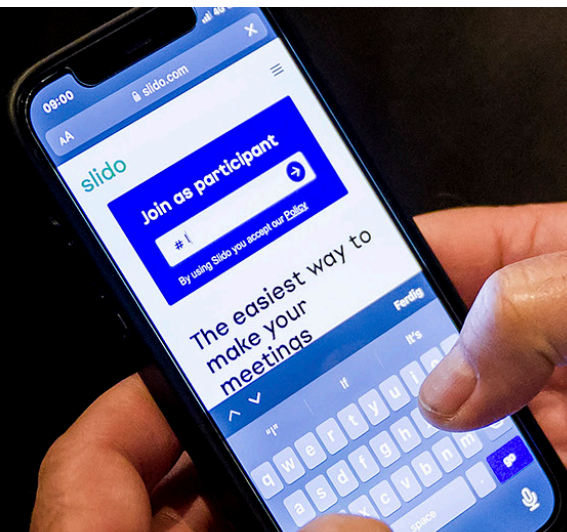
Question likes

37

Polls

2282

Total poll votes



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Media coverage

Total article views

19,434

Examples below



Attendees of the Maritime Hybrid, Electric & Hydrogen Fuel Cell Conference 2024 will gain insights into energy storage and fuel cells (source: Riviera)

Bergen event to explore maritime sector's zero-emissions initiatives

24 Oct 2024 by Martyn Wingrove

Vessel owners and operators are set to present advanced case studies showcasing new energy storage and fuel-cell technologies being deployed on vessels



The latest developments in batteries, hydrogen power, and fuel-cell technologies – and their applications across maritime sectors – will be thoroughly explored during a dynamic three-day conference in Bergen, Norway, from 29-31 October 2024 at the [Maritime Hybrid, Electric & Hydrogen Fuel Cell Conference 2024](#).

The event brings together leading vessel owners, operators, logistics companies, port authorities, regulators, investors, banks, system integrators, naval architects, class societies, technology suppliers, battery manufacturers and industry associations.

Day one will focus on the developments and adoption of hydrogen fuel cells, with sessions covering



(Left) Syb ten Cate Hoedemaker (Maritime Battery Forum) with Henrik Helgesen (DNV) at MHEHC 2023 in Bergen, Norway (source: Riviera)

Managing risks amid the rising demand for battery-powered vessels

08 Oct 2024 by Martyn Wingrove

Environmental legislation and local rules are encouraging investment in vessels running on batteries and green energy, but owners need to understand the financial and technical risks



Increasing demand for green maritime solutions is driving investment in energy storage systems for all types of vessels, but there are risks and safety issues to consider.

Batteries are being installed on ferries, tugs, workboats, offshore support vessels, inland cargo ships and shortsea ships, while ports are installing charging stations.

These market drivers and their risks will be debated at Riviera's [Maritime Hybrid, Electric & Hydrogen Fuel Cell Conference 2024](#), which returns to Bergen, Norway, on 29-31 October 2024, bringing together vessel



Amrei Tomaszewski Perez (AP Moller-Maersk): "We are looking at future power and energy solutions to decarbonise our fleet" (source: Riviera)

Shipowners lay groundwork for fuel-cell pilot projects

30 Oct 2024 by Martyn Wingrove

Vessel operators are gaining practical experience with hydrogen fuel cells in pilot projects, with large modules being installed for higher power generation



Owners from across shipping sectors are investing in hydrogen fuel cells and dual-fuel engines to test the technology on board their assets.

Several owners explained their investments, strategies and pilot projects during Riviera's [Maritime Hybrid, Electric & Hydrogen Fuel Cell Conference 2024](#), in Bergen, Norway.

Social media activity pre/during event



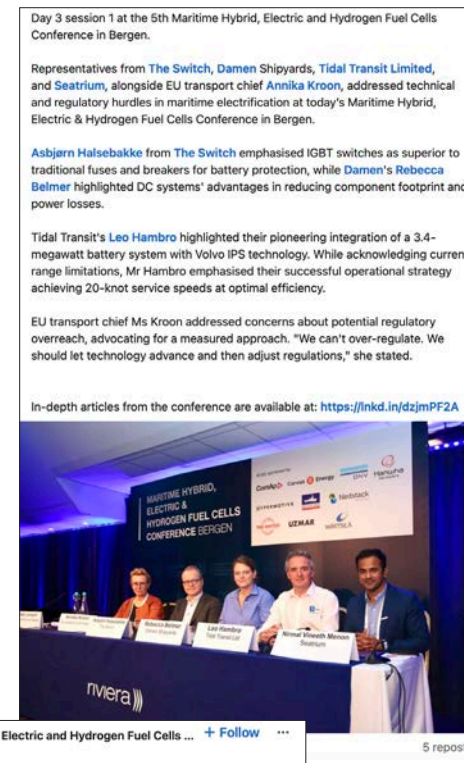
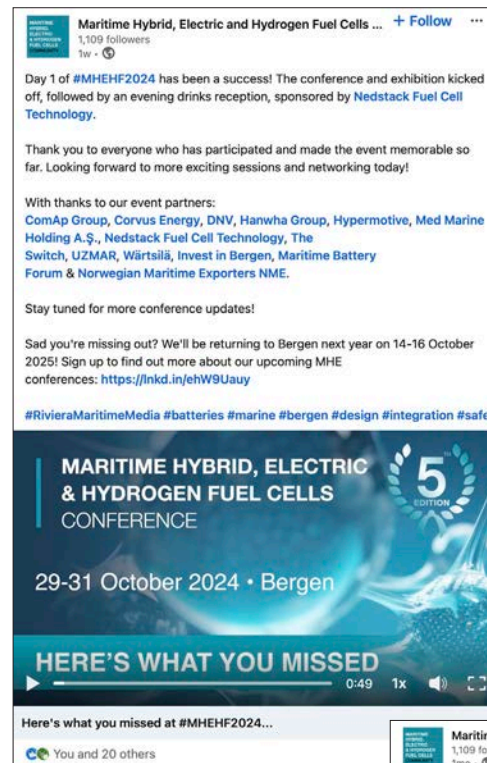
220
Total posts



85,000
Total impressions



2,350
Total reactions



Event partner & speaker testimonials



I just wanted to thank you all for the great week in Bergen again. Always a pleasure! Looking forward to the next one!”

Syb ten Cate Hoedemaker,
Managing Director,
Maritime Battery Forum



First of all, let me thank you and Riviera Team for a fantastic conference, I enjoyed and learnt a lot... the best.”

Andrea Macorini,
Electrical Instructor Specialist,
CSMART Carnival Corporation



You have shipowners, you have suppliers of different equipment, you have class societies and even end users. To be part of a conference where there are so many different players with so many different inputs is for sure great value for us.”

Jørgen Kopperstad,
Head of Maritime,
Norwegian Hydrogen AS



It has been a very good experience both participating and speaking at the conference. Job well done! The excellent teamwork and collective efforts made this event very successful.”

Yang Zhang,
Product Manager – Maritime,
Yara Clean Ammonia



I think the magnitude of competence that is in this room is really high.”

Jahn Helge Bjørnstad,
Chief Commercial Officer,
Napier

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