

Breakout Session

SSD 2026
29 – 30 June 

Lucerne, Switzerland 

SUSTAINABLE SHIPPING DAYS

Electrolysers & Fuel Cells for waterborne transport



SB1

Parallel

PEM Fuel Cell Applications in the Maritime Sector

H2Marine & MiNaMi Projects -EU-funded Clean Hydrogen JU projects

Monday 29 June 2026, 17:15 - 18:45 KKL Lucerne, Switzerland

**High-Durability & High-Power-Density PEMFC stacks,
Advanced Diagnostics and Monitoring Procedures**

Partners: CETH, VTT, PowerCell Group, ZSW, University of Freiburg, Greenerity, Dana, CluBE, TKMS, EH Group, CLEOS, EPFL, Beyond Gravity, SINTEF, ABB Oy, Fondazione Bruno Kessler, Vaisala, Allengra and DFDS.

Free Breakout Sessions: Register at www.SSDship.com/SBregistration



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PEM Fuel Cell Applications in the maritime sector

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High-Durability & High-Power-Density PEMFC stacks, Advanced Diagnostics and Monitoring Procedures

The H₂MARINE project focuses on designing, testing, and validating two 250–300 kW PEM stacks for marine use. In parallel, the MiNaMi project is developing the first MW-sized PEMFC for the maritime sector, targeting an 80,000-hour lifetime to cover over a million nautical miles at 12.5 knots. The H₂Marine & MiNaMi workshop will explore the main findings of these projects, specifically addressing challenges in stack durability, maritime environmental factors and the upscaling of FC systems.

Organised by:

The diagram illustrates the organizational structure and technical components of the project. It features three main pillars: **PEMFC PEM Fuel Cell**, **PEMFC Stack**, and **PEMFC Stack Utilization**. The **PEMFC PEM Fuel Cell** section shows a detailed cross-section of the cell with an anode, cathode, and electrolyte (PEM), illustrating the flow of hydrogen and oxygen ions. The **PEMFC Stack** section shows a stack of cells receiving hydrogen and air, producing electricity and heat. The **PEMFC Stack Utilization** section shows a ship equipped with a PEMFC stack, with a callout for 'FOR A ZERO EMISSIONS MARINE ENVIRONMENT'.

H₂MARINE
<https://h2marineproject.eu>

MiNaMi
 MILLION NAUTICAL MILE FUEL CELL SYSTEM
<https://minami-project.eu>

Clean Hydrogen Partnership (Co-funded by the European Union)

H₂MARINE is supported by the Clean Hydrogen Partnership and its members Hydrogen Europe and the Swiss State Secretariat for Education Research and Innovation under grant agreement No 101137965
 MiNaMi is supported by the Clean Hydrogen Partnership and its members Hydrogen Europe and Hydrogen Europe Research under grant agreement No 101250260.

In conjunction with



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Sustainable Shipping Days

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Breakout Session Program:

see also **SSD program**
www.SSDship.com/program

16.00	Registration & visit the SSD poster session
17.15	Welcome & Introduction
17.25	H₂Marine & MiNaMi Projects: Powering Cleaner Shipping Kyriakos Panopoulos, CPERI/CERTH, Greece
17.45	Recent findings on the development of PEMFC stacks for marine applications Andreas Bodén PowerCell Group, Sweden
18.05	Advanced diagnostics and monitoring methods for PEMFC stacks and systems in maritime applications Mikkola Jyrki VTT, Finland
18.25	Discussion panel
18.45	End of Breakout Session
19.45	SSD Sunset Dinner on the Lake

Who should join:

- OEMs of Fuel Cells, Electrolysers & Storage Systems
- Marine Fuel Suppliers
- Marine Genset Manufacturers
- Ship Yards, Ship Owners & Ship Operators
- Hydrogen transportation and logistics
- R&D specialists in the related fields
- Policy makers
- Regulatory authorities
- Inventors project developers, banks
- Classification Organisations

Registration

Free Breakout Session:

Register at www.SSDship.com/SBregistration
or message info@SSDship.com

Full SSD Conference (incl. Breakout Sessions):

Register at www.SSDship.com/REGISTRATION
or visit www.SSDship.com

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Breakout Session

Your contact



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Join Us at SSD 2026 in Lucerne

The SB breakout sessions are part of the wider SSD 2026 conference programme, bringing together leading experts, EU projects, industry partners, and maritime decarbonization stakeholders.

Explore the full programme, keynote lectures, networking events, and registration information in the SSD 2026 Final Announcement.

Final Announcement:

www.SSDship.com/FA

Registration:

www.SSDship.com/REGISTRATION

Website:

www.SSDship.com