



Final event

13th December 2024

Politecnico di Milano

Via Lambruschini, 4 – 20156, Milan
Building BL28, Aula Magna Carassa e Dadda



Concept Note

The e-SHyIPS partnership is pleased to announce the final event of the project, which will be held at the end of a four-years journey undertaken on the route of research in hydrogen for the maritime transport.

This initiative aims at presenting key findings and main achievements from the project, hence outlining future directions and bringing this project to its successful conclusion.

The event will represent an opportunity to further promote and enhance discussions and collaborative efforts between e-SHyIPS partners and all interested parties, assess the impact of e-SHyIPS and explore together the next steps towards a hydrogen-powered future in shipping.

Acknowledgements

This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking (now Clean Hydrogen Partnership) under Grant Agreement No 101007226. This Joint Undertaking receives support from the European Union's Horizon 2020 Research and Innovation programme, Hydrogen Europe and Hydrogen Europe Research. The project consortium is composed by: Politecnico di Milano, UNI Ente Italiano Di Normazione, Teknologian Tutkimuskeskus VTT OY, CINECA Consorzio Interuniversitario, ATENA scarl - Distretto Alta Tecnologia Energia Ambiente, Proton Motor Fuel Cell, Levante Ferries Naffiki Etaireia, Ghenova Ingegneria sl Danaos Shipping Company Limited, OY Woikoski AB, DF - Ingegneria del Fuoco srl, Dimos Andravidas-kyllinis DNV GL Hellas sa, Scheepswerf Damen Gorinchem.

AGENDA

09:00 – 10:00	Networking coffee Reception and Registration	
10:00 – 10:20	Welcome & opening	<u>Brendan Sullivan</u> Politecnico di Milano, e-SHyIPS Project Coordinator
10:20 – 11:00	Keynote <i>Advancing Maritime Decarbonization: Net Zero Strategies and IMO Regulatory Impact</i>	<u>Onder Canbulat</u> IMO Delegate Advisor, and Maritime Net Zero Lead
11:00 – 13:15	Session: Outcomes from e-SHyIPS	
11:00 – 11:20	<i>Converting ships to hydrogen: the DAMEN waterbus and the LEVANTE ferry</i>	<u>Nikos Sakellaridis</u> DAMEN <u>Kyriakos Mahos</u> Levante Ferries
11:20 – 11:40	<i>Virtual towing tank analysis of the selected scenarios</i>	<u>Francesco Salvatore</u> , <u>Raffaele Ponzini</u> CINECA
11:40 – 11:55	Coffee break	
11:55 – 12:15	<i>Environmental Impacts on PEM-Fuel Cells in Maritime Application</i>	<u>Baumann Nils</u> Proton Motor
12:15 – 12:35	<i>Influence of contaminants on PEMFC performance</i>	<u>Lius Daniel</u> VTT
12:35 – 12:55	<i>Analysis of emergency hydrogen discharge</i>	<u>Markus Rautanen</u> VTT
12:55 – 13:15	<i>Explosion risk aspects</i>	<u>Davide Manenti</u> IDF – Ingegneria Del Fuoco
13:15 – 14:15	Lunch	
14:15 – 14:45	Keynote <i>Superyacht policy towards GHG provision and adoption of new technologies for propulsion</i>	<u>Lorenzo Pollicardo</u> SYBAss, IMO works participant
14:45 – 15:45	Session: cluster projects	
14:45 – 15:00	<i>Status update of the first projects demonstrating hydrogen-based maritime transport: Flagships, RH2IWER & SHIP-AH2OY</i>	<u>Markus Rautanen</u> VTT
15:00 – 15:15	<i>H2PORTS: the first application of hydrogen technologies in port handling equipment in Europe</i>	<u>Giovanni Di Ilio</u> University of Naples Parthenope
15:15 – 15:30	<i>FuelSOME - Multifuel SOFC system with Maritime Energy vectors</i>	<u>Simona Di Micco</u> University of Naples Parthenope
15:30 – 15:45	<i>Overview of the ELVHYS project on safety of liquid hydrogen transfer technologies</i>	<u>Donatella Cirrone</u> Ulster University
15:45 – 16:30	Session: Outcomes from e-SHyIPS	
15:45 – 16:15	<i>The new guidelines for H2 passenger ships from the early stage of design: a CEN workshop agreement developed by e-SHyIPS project</i>	<u>Cristina Di Maria</u> UNI Italian Standards Body
16:15 – 16:30	<i>A roadmap for hydrogen-based fuels adoption for passenger ships in EU maritime sector</i>	<u>Laura Pirrone</u> Politecnico di Milano
16:30 – 16:40	Closing remarks	<u>Brendan Sullivan</u> Politecnico di Milano, e-SHyIPS Project Coordinator
16:40 – 18:00	Farewell aperitivo	