



Focus on Sub IMO / Sub 24m Professional Craft

International Group - Workshop via Zoom

12.00 to 17.00 (UK)

13.00 to 18.00 (EU)

07.00 to 12.00 (US EST)

Relevant to Professional – Commercial – Military

End-user Organisations • Operators • Boat Builders • Refit Yards
OEM Manufacturers • Engineers • Naval Architects • Designers
Classification • Legislators • Ports • Harbours • Marinas

Next Generation Energy – Power – Propulsion

Ferries • Work Boats • Pilot Boats • Offshore • Wind Farm Support
Search & Rescue • Military • Patrol Craft • Police & Security
Training • Charter • Superyacht Tenders

NEXT GEN HYDROGEN Workshop: Standard Rate £120

Military / Government / Academia / Ports / British Marine
RINA / IMarEST / UKHMA: Discount Rate £95

For further information:

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www.nextgen-marine.com

THEME: Utilisation of Hydrogen for Marine Power & Propulsion	
11:45 – 12:00	Log on and Join the Group
HYDROGEN ENERGY for Land - Air - Sea	
12:00 – 12:10	John Haynes – Managing Director, NEXT GEN Marine / Workshop Lead Workshop Aims & Objectives / Global & Regional Opportunities
12:10 – 12:35	Capt Muhammad Shafique – Chair, Alternative Fuels, IMarEST / Member State Rep to IMO Forms of Hydrogen - International Standards - Knowledge Transfer from and to Shipping
12:35 – 13:00	John Price – Director, JMP Systems Engineering / Former Airbus Group Innovations Next Generation Fuels and Energy - Knowledge Transfer from and to Aviation
13:00 – 13:20	David Yorke – Market Development Manager, Ballard Power Systems Europe Hydrogen Systems - From Busses and Trucks to Ferries and Workboats
13:20 – 13:45	Q & A Session Hydrogen Infrastructure - Lessons from Other Sectors
13:45 – 14:00	Break
HYDROGEN TECHNOLOGY for Marine Power and Propulsion	
14:00 – 14:20	Prof Alasdair Cairns – Chair of Propulsion Systems, University of Nottingham Utilising Hydrogen as a Flexi Fuel in Internal Combustion Engines
14:20 – 14:40	Trevor Jasper – Director of Advanced Research and Development, CMB.TECH Hydrogen and Dual Fuel Engines – the Transition to a Low Carbon Future
14:40 – 15:00	Technology – Knowledge & Information / Presenter TBC Taking a Hydrogen Vessel from Concept through Design to Operations
15:00 – 15:30	Q & A Session Viable Hydrogen Applications - Types of Vessels & Duty Cycles
15:30 – 15:40	Break
HYDROGEN TRANSPORT & STORAGE for Vessels and Ports	
15:40 – 16:05	Albert Willemsen – Environment & Sustainability Lead / Former ICOMIA - Int Marine Org International Hydrogen Strategies - Aims & Objectives - Legislation & Regulations
16:05 – 16:30	Peter Van de Graaf – Decarbonisation Business Development Manager, Lloyd's Register Use of Alternative Fuels in the Absence of Prescriptive Rules
16:30 – 17:00	Q & A Session Ensuring Safe Transport & Storage of Hydrogen - On Vessels - In Ports
17:00	Finish & Download CPD Certificate

The EU and UK Hydrogen Strategy - adopted in 2021 - aims to accelerate the development of clean hydrogen.

NEXT GEN Marine Hydrogen Workshop enables attendees to learn where hydrogen could provide solutions.

Hydrogen Technology looks at how marine can identify viable solutions for various applications.

Hydrogen Infrastructure will need rapid investment - with focus on flexibility and safety.



John Haynes



Muhammad Shafique



John Price



David Yorke



Alasdair Cairns



Trevor Jasper



Albert Willemsen



Peter Van de Graaf



CMB.TECH is a cleantech company that builds, owns, operates & designs large marine and industrial applications that run on hydrogen and ammonia. CMB.TECH also offers hydrogen and ammonia fuel to its customers, either through own production or by sourcing it from third party producers.

CMB.TECH has 4 Divisions: MARINE - ENGINEERING - H2 INFRA – INDUSTRY.

www.cmb-tech.com



Ballard Marine Center of Excellence in Denmark is dedicated to engineering, manufacturing and servicing fuel cell applications. Ballard is actively involved in projects including megawatt-scale marine power solutions with ABB, development of HySeas III the world's first sea-going renewables-powered car and passenger ferry. Also participation in European H2PORTS project and Flagships project to demonstrate fuel cell powered ferries and barges.

www.ballard.com

NEXT GEN Marine Energy - Shaped By Experience

NEXT GENERATION
HYBRID
Power & Propulsion
CONFERENCE
October 2015
RLNI Lifeboat College - Poole UK

NEXT GENERATION
MARINE
Batteries & Energy
WORKSHOP
April 2016
Grand Harbour - Southampton UK

NEXT GENERATION
MARINE
Power & Propulsion
CONFERENCE
18 & 19 April 2018
Grand Harbour - Southampton UK

NEXTGEN
Marine BATTERY
WORKSHOP • 19 OCT 2021

NEXTGEN
Marine HYDROGEN
WORKSHOP • 20 OCT 2021



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