



SAVE THE DATE | Workshop

Green fuels for the maritime sector: challenges, risks and ways forward

16 October 2024 - The Quartz Conference Center, Brest, France

Why participating in this workshop?

This workshop will give an overview of strategic challenges related to the transition to green fuels for the maritime sector. It also aims at providing a common vision and framework to set out a roadmap shared by ports, shipping companies and energy industries.

Context

Energy transition is a core strategy of the European Commission with challenging steps to “green” the maritime transport. In this context, is hydrogen or how hydrogen is a response to the market? With the FuelEU Maritime regulation, greenhouse gas emissions reduction targets, and maritime emissions being monitored under the Emissions Trading System (ETS) as of 2024, shipowners are incentivised to adopt renewable liquid and gaseous fuels of non-biological origin (RFNBO) to decarbonise their fleet. However, shipping companies, ports and energy providers must work together to set out common strategies and roadmaps. The price gap between e-fuels for shipping and conventional fuels is a barrier, but there are other challenges including refuelling capacities to switch to RFNBO in this sector.

There is a need of switching to alternative fuels questions our European and national capacities at ensuring their availability on the long run, over the production, storage and distribution chains. But several questions remain: how securing the supply, what are the risks associated to changing regulations, how will we secure the change of scale between small- and large-scale usage of new fuels and electricity, and how to finance the change?

Ensuring availability of sufficient quantities of hydrogen and green fuels will require a smooth or adaptative transition from natural gas and oil to various colours of hydrogen. Then, how the regulation can support these development steps, even though these steps would not be carbon free at the beginning? And how is the ETS and carbon exchange market is foreseen to work along the steps?



Agenda of the workshop

09:30 - 12:30 | Session 1 - Challenges of hydrogen for maritime applications

Chair: Tim SCARBROUGH from Ricardo Consultancy (to be confirmed)

09:30 - 09:50 | Opening speech

- New energies - Holistic safety perspective by Carsten MØLLER and Mads RAGNVALD NIELSEN, Danish Institute of Fire and Security Technology, DBI group

09:50 - 10:30 | Shipping as leader of the transition

- Experience of end-to-end implementation of LNG and hydrogen for the maritime and terrestrial transport, by Compagnie Maritime Belge by Deepak MEHTA, Maritime Campus of Antwerp
- From concepts to pilot exploitation and operational exploitation of green energies in the maritime sector, by Didier BOUIX, Energy Observer

10:30 - 11:50 | Ports as energy hubs and nodes of the maritime energy corridors

- Jan VINCKE, Port of Hamburg, Germany
- Marc ITGEN, Ingenion / Port of Cuxhaven, Germany
- Elisa OYONARTE and Julio DE LA CUEVA, Port of Seville and Puertos del Estado, Spain
- Pedro PONTE and Nuno MATOS, Port of Setúbal and Eco-Oil, Portugal

11:50 - 12:10 | From the experience of LNG terminals to hydrogen and e-fuels - Vision of an operator

- Reuse or retrofit of gas pipelines and LNG storage terminals to provide hydrogen and e-fuels and foreseen road maps, by ENGIE and Elengy

12:10 - 12:30 | Discussion with the panellists and the audience

- A transition under way: involving ports, short sea shipping lines, and energy terminals

13:00 – 15:30 | Side event alongside Sea Tech Week

In the Chambre de Commerce et d'Industrie (CCI) of Brest premises (5 min walk from the Quartz Conference Centre)

13:00 – 14:00 | Lunch

14:00 – 15:15 | Open dialog with decision makers

15:30 - 17:00 | Session 2 – Sustainability of hydrogen and e-fuels - Towards a common framework and roadmap

Chair: Jens Henrik MØLLER from GEMBA

15:30 - 15:50 | Opening speech

- Cooperation and coordination to create hydrogen valley, hydrogen ports valley and maritime corridors - Emphasise on ports and short sea shipping, by Koen STAMOU, New Energy Coalition

15:50 - 16:30 | Derisking the supply and support through regulations

- Securing the supply of green fuels, by Laurent SIFFRE and Deepak MEHTA, Movin'On
- Focus on regulations and the especially crucial ship repairing activities, by Jean-Marc ECOBICHON and Sylvain MORVAN, DAMEN shiprepair & retrofit

16:30 - 17:00 | Discussion with the panellists and the European Commission

- Financial and economic capacities, cooperation within the EU framework, next steps and road maps

17:30 – 19:00 | Visit of the Port of Brest facilities (*Meeting point in front of the Quartz Conference Centre*)



Organisers

The workshop is organised by Brest Port, France Energies Marines and Bretagne Développement Innovation, with the support and contribution of 4 European brother projects under a common banner to facilitate discussions and build synergies between Atlantic and Nord Sea Areas.

BrestPort



**Interreg
Atlantic Area**



Co-funded by
the European Union

**Interreg
North Sea**



Co-funded by
the European Union

GREEN SUPPLY CHAINS Interreg North Sea project (01.2024-12.2026) will design and demonstrate solutions for short term energy transition in ports including their logistic/transport chains. Coordinated by Port of Hamburg Marketing and Authority, it brings together 10 partners from Germany, Sweden, The Netherlands, Denmark, and France.



HYDEA Interreg Atlantic Area project (10.2023-09.2026) aims at creating hydrogen markets in the ports, designing and demonstrating use cases and preparing the hydrogen import/export network based on ports of the Atlantic Area. Coordinated by EnergyLab, it brings together 10 partners from Portugal, Spain, France, and Ireland.



NORTH SEA H2 VALLEY PORTS Interreg North Sea project (01.2024-12.2026) aims at creating hydrogen import/export networks centred on ports of the North Sea, considering the specific port use cases including shipping lines and shipping refuelling needs. Coordinated by New Energy Coalition, it brings together 9 partners from The Netherlands, Denmark, Germany, Sweden, and France.





DIOL Interreg North Sea project (05.2023-14.2026) supports the realization of the Esbjerg Declaration about transforming the North Sea into a green power plant of Europe. Coordinated by Esbjerg Airport, it brings together 13 partners from Denmark, The Netherlands, Germany, Belgium, and France.



The **REDII Ports** Interreg North Sea project will test into port environments small-scale renewable energy solutions considering the list of energy sources listed in the REDII regulation (electricity, wind, solar, bio-diesel, H2, ammonia, methanol). The goal is to identify solutions offering maximum benefits in ports.



Your contacts

- **Fabienne VALLÉE**, Innovation & Development coordinator- BrestPort: fabienne.vallee@brest.port.bzh
- **Mélusine GAILLARD**, Communication Officer - France Energies Marines: melusine.gaillard@ite-fem.org
- **Koen STAMOU**, Project Manager- New Energy Coalition: k.stamou@newenergycoalition.org
- **Stefan BREITENBACH**, Head of project department- Hamburg Marketing: breitenbach@hafen-hamburg.de
- **Jens Henrik MØLLER**, GEMBA consulting, jm@gemba.dk

More about the Sea Tech Week event

Sea Tech Week is an international event dedicated to marine and maritime science and technology. It attracts every 2 years 1,200 top international experts, representing a wide variety of ocean-related disciplines. For more than 20 years, this event has forged and strengthened international collaboration, research and business in marine science and technology. For this new edition, Ireland is the country of honour with the topic of maritime safety and security. Sea Tech Week will hold from 15 to 17 October 2024 in Brest, France. This event will feature 3 high level sessions, 30+ workshops on different topics, a professional trade fair and BtoB meetings.

Highlights of interest to speakers and participants of the workshop **Green fuels for the maritime sector: challenges and risks and ways forward**

15 OCTOBER 2024

14:00 - 15:00 | High level session - Maritime surveillance, action by the state at sea, sovereignty, non-defence activities



17 OCTOBER 2024

- 09:30 - 12:30 | Workshop** - Ammonia as a maritime fuel: bridging knowledge gaps for a safe and green future
- 14:00 - 15:00 | High level session** - Safety of good and people, resilience at sea
- 15:15 - 17:45 | Workshop** - Safety related to hydrogen and new fuels on board ships and in port facilities