

H2SHIPS

System-based Solutions for Hydrogen-fuelled Water Transport in North-West Europe



Key Facts



Funding Agency
Interreg North-West-Europe



Project Call
7 call, Priority Axis 2 Low carbon SO4: To facilitate the implementation of transnational low-carbon solutions in transport systems to reduce GHG emissions in NWE



Duration
01/2019 – 07/2022



Coordinator
European Institute for Energy Research (EIFER)



Partners

- Hynamics
- University of Birmingham
- Amsterdam Port Authority
- Delft University of Technology
- Navalu
- SYCTOM
- Haropa Port of Paris
- Port of Oostende
- Steinbeis 2i GmbH
- Hydrogen Europe
- Transport & Environment
- Tata Steel Europe



Website
www.nweurope.eu/h2ships

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Project Objectives

The Interreg North-West Europe project H2SHIPS will demonstrate the technical and economic feasibility of hydrogen bunkering and propulsion for shipping and will identify the conditions for successful market entry for these technologies. Two pilot projects will be implemented as part of H2SHIPS:

A hydrogen powered port vessel will be built in Amsterdam and in Belgium a Hydrogen refuelling system for maritime ports will be developed and tested. A further major output will be an action plan for the implementation of an H2SHIPS pilot on the river Seine in Paris in 2022. H2SHIPS will demonstrate the added-value of H2 for water transport and develop a blueprint for its adoption across North-West Europe which can avoid considerable GHG and particle emissions arising from shipping.



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Main Project Outputs:

- A demonstration project for H2-powered water transport of passengers and for offshore H2 refueling
- A replication study for inland cargo ships
- An action plan for the implementation of a pilot in Paris in 2021-2022
- A blueprint for the uptake of a new hydrogen-based transport system in North-West Europe
- The creation of an H2 value chain that supports transport operators in implementing H2 products/services developed by enterprise-research cooperation
- Positive impacts on the water transport sector and port cities

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