



**Interreg
Atlantic Area**



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The ports of the Atlantic Area will investigate the use of technologies based on green hydrogen from marine energy and other renewable energies.

The HYDEA project kicks off with the first meeting of the consortium in the Port of Vigo. This project, led by the EnergyLab Technology Centre, and funded by the Interreg Atlantic Area 2021-2027 programme, will carry out pilot tests for the application of hydrogen and methanol as an energy alternative in the fleet and vehicles of the ports of the Atlantic area, to achieve the integration of marine technologies and renewable energies in the maritime sector. It is made up of 11 partners from different public and private entities from Spain, France, Ireland, and Portugal, which are part of the transport and bioenergy ecosystem.

Contributing to net zero emission objective by 2050

To be the world's first net-zero emissions area by 2050, the European Union has set out a plan to put us on the path to a green transition. The European Green Pact aims to reduce emissions by 50% compared to 1990 levels by 2030, and one of the areas that is attracting attention for its transformative potential is the maritime sector, as a crossing point for people, goods, and different modes of transport. Although ports are best known as interconnection points within the maritime transport network, they are also multimodal nodes, industrial areas and commercial sites that play a key role in this decarbonisation process.

Ports can act as drivers of this energy transition from two points: as promoters of a more sustainable port activity and maritime transport, and as a link in the maritime-port clusters, where ports interact with agents from the different value chains, with common objectives and interests. For all these reasons, the Atlantic ports are positioned as an excellent testing platform that will allow the application of the results in the different sectors, thus strengthening their competitiveness and decarbonisation.

Making green hydrogen a credible solution

The HYDEA project was created to accelerate the development and application of technologies based on the use of green hydrogen as an energy alternative in different types of fleets and vehicles, thus taking another step forward in research for the development and application of alternatives to current

energy sources. Green hydrogen comes from renewable energies with zero CO₂ emissions, which makes it a clean, sustainable fuel with a zero-pollution index, making it a key agent for the decarbonisation of society in general, and ports in particular.

The main objective of the project is to assess, develop and promote the use of technologies based on green hydrogen from renewables like marine energy in Atlantic Area ports. This is articulated through the achievement of several specific objectives, which will address the following challenges:

- Promoting a clear role of hydrogen in the strategic energy plans of ports.
- Increasing knowledge on various hydrogen production technologies that are viable for use in ports.
- Implementing technology demonstrators to attract investor interest in viable business models.

A powerful transnational cooperation across Atlantic Area

The HYDEA project consortium, funded by the Interreg Atlantic Area 2021-2027 programme, brings together entities from Spain, France, Portugal and Ireland under the leadership of the EnergyLab Technology Centre, with the active participation of 4 ports - Port Authority of Vigo, Port Authority of Seville, Brest Brittany Port Company and Administration of the Ports of Douro, Leixões and Viana do Castelo-, 1 technology centre - France Energies Marines -, 2 universities - University of Galway and University of Porto - and 3 companies - Hive Hydrogen, Automotive Synergy Evolution, and Energy Observer Developments -. All of them will also have the support of 13 associated entities: 7 Atlantic port authorities and 6 entities promoting clean energies.

Furthermore, it is worth highlighting the creation of the HYDEA Community, which will be coordinated by the Port Authority of Vigo, and which will integrate entities from the entire hydrogen value chain from the tertiary sector, academics or industry, as well as from the public administrations. This Community aims to be an international forum for sharing experiences, good practices and, in general, disseminating the potential of hydrogen for the sustainable development of communities and for achieving the decarbonisation of society in general, and of ports in particular.

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HYDEA project in short

OBJECTIVE	Accelerating the deployment and the use of green hydrogen-based technologies in an integrated way with marine and other renewable energies in Atlantic Area ports		
DURATION	3 years (2023-2026)	BUDGET	€3.43M
FUNDING	European Interreg Atlantic Area Programme - N°EAPA_0057/2022		
LEADER	EnergyLab Technology Centre, Spain		
PARTNERS	11 consortium partners 11 ports involved		

