



Interreg
Atlantic Area



Co-funded by
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HYDEA is a 3.5-year Interreg Atlantic Area project with a total budget of €3.43M which aims at boosting the hydrogen transition in the Atlantic Area ports.



A growing Community

HYDEA Community is intended to be across borders forum for all hydrogen stakeholders. To date, 93 participants have been registered as members.

Throughout 2025, the Community successfully organised and executed 3 focus groups dedicated to Hydrogen storage and distribution, Hydrogen production and Hydrogen strategy in ports, respectively. These groups gathered experts from Spain, Portugal, France, and Ireland to analyse challenges, share experiences, and identify collaborative pathways across the hydrogen value chain in port environments.

The discussions and analyses carried out within the focus groups led to the identification of 23 collaboration opportunities. These opportunities cover complementary areas across the hydrogen value chain, including infrastructure, logistics, technological innovation, policy harmonisation, and cross-border hydrogen corridors.

[Join the HYDEA Community](#)

[Download the 2nd year report](#)

A tool to evaluate hydrogen deployment

HyTEA 1.0 is an open-source tool designed to support techno-economic assessment and decision-making in the planning and development of green hydrogen supply chains in ports.

HyTEA provides a flexible framework for assessing and comparing different green hydrogen supply-chain configurations, covering key elements from renewable electricity generation and hydrogen production through storage, transport and end-use demand. The tool enables users to examine how renewable resources and hydrogen demand affect electrolyser operation, hydrogen production, storage requirements and overall system economics.

A key feature of HyTEA is its ability to integrate multiple location-specific renewable energy sources and hourly generation profiles within a single model. Users can represent

different combinations of renewable resources. HyTEA can also be used to assess and optimise the sizing of electrolyser and hydrogen storage under different conditions.

HyTEA users can explore multiple green hydrogen supply chain scenarios and evaluate their technical and economic implications. The tool calculates key performance indicators, including LCOH and GHG intensity. These indicators provide a basis for comparing different scenarios from both economic and environmental perspectives and identifying potential options for further development.

[Register to attend the workshop
in Galway on 29 Sept. 2026](#)



Resolutions of the call for applicants

Throughout the project, HYDEA consortium launched three successive calls to provide access to the partners' experimental facilities and expertise to support the development and testing of pre-commercial and innovative technologies.

After the closure of each call for applicants, all proposals have been evaluated by the representative board of the HYDEA project. The assessment followed the criteria and procedures outlined in the application guidelines.

Congratulations to Coolergy, whose application has been successful in the framework of the second call! Its application deals with testing 80 kW PEM fuel

cell portable generator, with different port equipment and ships charging.

Unsuccessful applicants were contacted to support them in refining their applications and were encouraged to participate in the subsequent call.



Resolution of the 2nd call

A webinar is coming soon!

HYDEA partners are organising thematic webinar series throughout the project to cover the different stages of the hydrogen supply chain, from production through transport and storage to consumption.

The next webinar is organised by EVO and HIVE Hydrogen. It will hold on **24 September 2026**, from 11:00 am to 12:30 pm (CEST). under the following title: *Ports as anchors for hydrogen demand: End-uses and applications*.

The preliminary program is as follows:

- Industrial hydrogen demands at ports
- Hydrogen mobility at ports
- Fuels and chemicals production
- Q&A session.

Know more and register



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