



International Partnership
for Hydrogen and Fuel Cells
in the Economy

European Commission Update

43rd IPHE Steering Committee Meeting

10-11 June 2025

Santiago, Chile

The Clean Industrial Deal

The Commission adopted on 26 February 2025 a communication (COM(2025) 85 final) entitled “**The Clean Industrial Deal: A joint roadmap for competitiveness and decarbonisation**”.

The Clean Industrial Deal (CID) is the business plan to accelerate decarbonisation and competitiveness for European industry - by boosting innovation and reinforcing resilience. CID focuses on:

- **Energy-intensive industries:** to safeguard competitiveness from high energy costs and unfair global competition
- **Clean-tech sector:** to allow it to expand in the EU as it is a key enabler of competitiveness and decarbonisation

Hydrogen has a central role to play in decarbonising the EU energy system, in particular in the hard to abate sectors where electrification is not yet a viable option.

Hydrogen in the Clean Industrial Deal

- A clear regulatory framework is essential. **The Commission will therefore adopt the delegated act on low carbon hydrogen**, to clarify the rules for producing low carbon hydrogen in a pragmatic way, providing certainty to investors.
- To de-risk and accelerate the uptake of hydrogen production in the EU, the Commission will **launch a third call under the Hydrogen Bank** in Q3 2025 with a budget of up to EUR 1 billion and encourage Member States to use the auctions-as-a-service platform provided by the Commission.
- Moreover, the **launch of the Hydrogen Mechanism under the European Hydrogen Bank** in Q2 2025 will mobilise and connect off-takers and suppliers, linking participants with financing and de-risking instruments to facilitate aggregation of off-takers' demand for hydrogen and hydrogen-derived fuels in hard-to-decarbonise industrial sectors and transport, e.g. in the maritime and aviation sectors.
- To prepare the review of the delegated act on renewable fuels of non-biological origin, the Commission is launching a **study to assess the effectiveness of the hydrogen framework and identify possible barriers to the upscaling of renewable hydrogen**. The Commission also continuously supports stakeholders in the certification process, notably with a regularly updated online Q&A.

Demonstration – Deployment - Financing

Hydrogen and Fuel Cell R&D Update – Clean Hydrogen Partnership

- The Call for Proposals 2025 has an indicative total budget of EUR 184.5 million, including EUR 80 million to be directed exclusively towards Hydrogen Valleys topics according to the REPowerEU Plan. It also includes EUR 20 million from United Kingdom appropriations.

- Hydrogen Valleys Facility

The facility aims at accelerating the number of hydrogen valleys in Europe. It includes project development assistance to support Hydrogen Valleys at different level of maturity. The facility will include activities aiming to ensure that the knowledge gathered, and the lessons learnt from Hydrogen Valley projects (including skills) are retained, collected, analysed and widely disseminated and used in a structured and efficient way. The Facility will also be used to maintain and update the Mission Innovation Hydrogen Valley Platform. The Hydrogen Valleys Facility will be launched as part of the Hydrogen Valleys Days in June 2025

- https://www.clean-hydrogen.europa.eu/media/news/save-date-hydrogen-valley-days-second-edition-2025-01-28_en

Demonstration – Deployment - Financing

Innovation Fund

A second renewable hydrogen auction opened on 3 December 2024 and awarded up to €1.2 billion support to renewable hydrogen producers located in the European Economic Area (EEA), contributing to the further creation of a European market for renewable hydrogen by de-risking investments with public support.

This call for proposal included two topics subject to separate competitive bidding procedures:

- a general topic to support the production of RFNBO hydrogen regardless of the sector in which it will be consumed (€1.0 billion); and,
- a specific topic for the production of RFNBO hydrogen to be used in the maritime sector (€200 millions).

The auction was heavily oversubscribed, as it attracted 61 bids from 11 countries, requested four times the available budget and all bids taken together account for a total electrolyser capacity of around 6.3 GWe.

On 20 May 2025, the Commission announced the selection of 15 renewable hydrogen production projects for public funding across the European Economic Area (EEA). **The projects, located across five countries, are expected to produce nearly 2.2 million tonnes of renewable hydrogen over ten years, avoiding more than 15 million tonnes of CO₂ emissions.** The hydrogen will be produced in sectors such as transportation, the chemical industry, or the production of methanol and ammonia. They will receive a total of €992 million in EU funding, from the Innovation Fund sourced from the EU Emissions Trading System (ETS).

Project Name	Coordinator	Country	Bid Volume (hydrogen kilotonne over 10 years)	Bid Capacity (Megawatts electric)	Expected GHG avoidance** (kilotonnes of CO ₂ equivalent over 10 years)	Bid Price (EUR/kg)
General topic						
VILLAMARTIN H2	GALENA RENOVABLES 6, S.L.	Spain	126	252	859	0.2
PUERTO SERRANO H2	GALENA RENOVABLES 7, S.L.	Spain	49	98	337	0.25
<u>Kristinestad PtX</u>	<u>Koppo Energia Oy</u>	Finland	258	200	1,763	0.33
<u>SolWinHy Cadiz</u>	<u>Viridi RE GmbH</u>	Spain	63	80	431	0.4
H2LZ	IGNIS HIDROGENO ALFA	Spain	26	20	179	0.41
AGS	ARMONIA GREEN SEVILLA	Spain	238	198	1,631	0.41
AGG280	ARMONIA GREEN GALICIA, S.L.	Spain	238	198	1,629	0.42
H2CRI	GREEN DEVCO ENERGY 6, S.L.U.	Spain	30	30	204	0.44
KASKADE	Meridiam SAS	Germany	354	367.5	2,424	0.45
<u>H2-Hub Lubmin</u>	<u>H2-Hub Lubmin GmbH</u>	Germany	238	210	1,628	0.47
<u>TORDESILLASH2</u>	<u>Elawan Energy</u>	Spain	17	15	115	0.48
<u>Zeevonk electrolyser</u>	<u>Zeevonk Electrolyser</u>	Netherlands	411	560	2,812	0.6
Maritime topic						
RjukanH2	NORWEGIAN HYDROGEN AS	Norway	29	18.75	201	0.45
Gen2-LH2	Gen2 Energy AS	Norway	104	82.21	714	0.59
HammerfestH2	GREEN H AS	Norway	12	7.5	80	1.88

** Calculated based on the 2021-2025 ETS benchmark of 6.84 tons CO₂e/tH₂, not taking into account additional carbon abatement due to substitution effects in the H₂ end use application

Lessons Learned – Importance of monitoring



Brussels, 12.5.2025
SWD(2025) 121 final

COMMISSION STAFF WORKING DOCUMENT
**Report on implementation and monitoring of large-scale hydrogen deployment projects:
the IPCEIs on hydrogen and the ECH2A project pipeline**

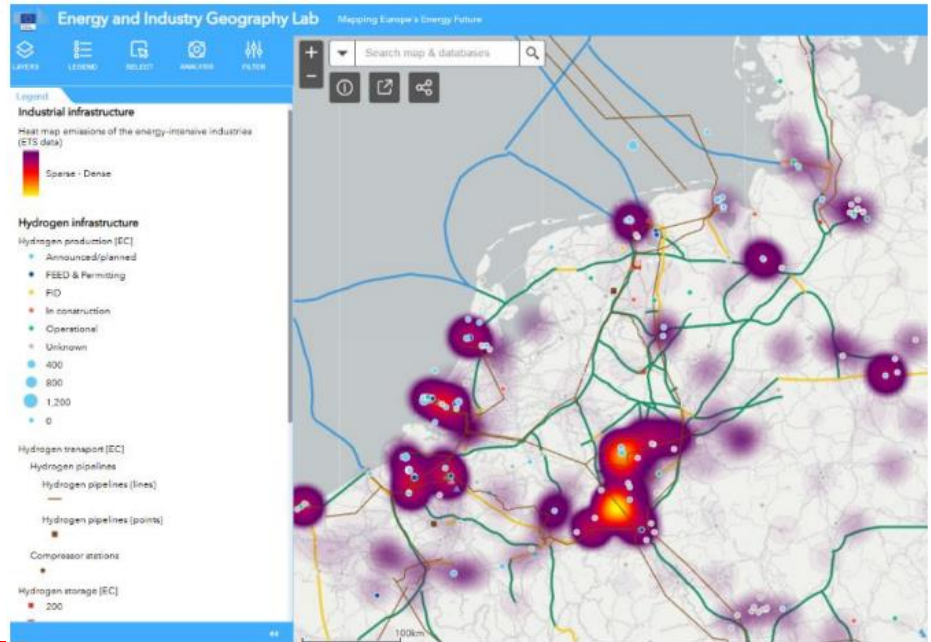
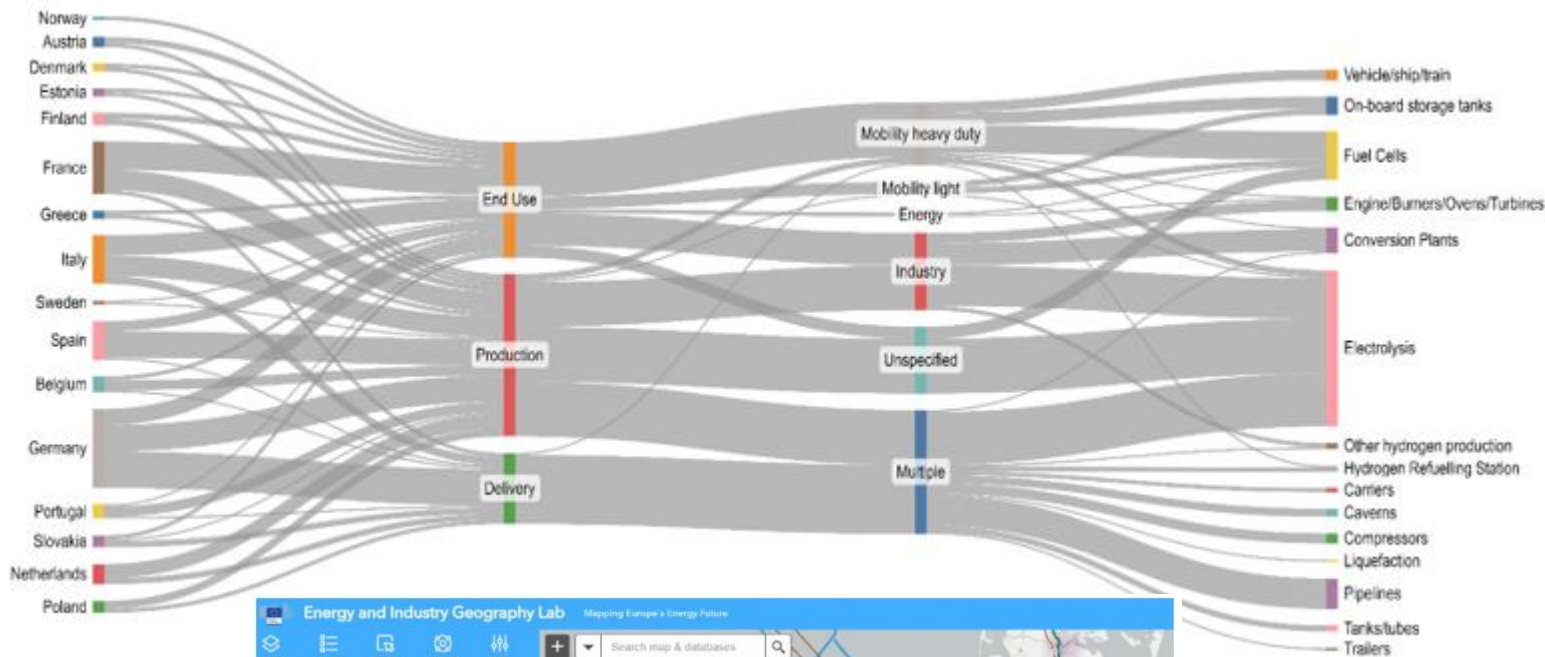


Figure 25. Example of visualisation: European hydrogen backbone map, current hydrogen projects, and heat map of industrial greenhouse gas emissions.



Thank you



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