



International Partnership  
for Hydrogen and Fuel Cells  
in the Economy

## *European Commission* Update

40<sup>th</sup> IPHE Steering Committee Meeting

4 – 5 October 2023

Washington DC, United States

# State of Play – Regulatory Framework

## RED conclusion and Hydrogen Targets

Share of renewable energy in the EU's overall energy consumption to **42.5% by 2030** with an additional 2.5% indicative top up that would allow to reach 45%. Each member state will contribute to this common target.

Industry agreed that **42% of the hydrogen used in industry should come from renewable fuels of non-biological origin (RFNBOs) by 2030 and 60% by 2035.**

## Publication on 20 June 2023 of two Delegated Acts required under the Renewable Energy Directive.

Outlining detailed rules on the **EU definition of renewable hydrogen** and providing **a methodology for calculating life-cycle greenhouse gas emissions for RFNBOs**. The final texts are unchanged from the draft acts adopted by the Commission on 13 February 2023.

## Adoption of the alternative fuel infrastructure regulation (AFIR) on 20 July 2023

**Hydrogen refuelling stations serving both cars and lorries** must be deployed from 2030 onwards in all urban nodes and **every 200 km along the TEN-T core network**.

The stations will have a daily supply capacity of **one ton/day of hydrogen at a pressure of 700 bars** for all modes of road transport.

**Alternative Fuels Infrastructure Facility (AFIF): €189 million in EU funding for projects supporting greener mobility** - some 63 hydrogen refuelling stations

# State of Play – Regulatory Framework

## Adoption on 25 July 2023 of the FuelEU maritime initiative

The new law to decarbonise the maritime sector. It contains the following main provisions:

- Measures to ensure that the **greenhouse gas intensity** of fuels used by the shipping sector will gradually decrease over time, by **2% in 2025**, 6% from 2030, 14.5% from 2035, 31 % from 2040, 62% from 2045 and to 80% from 2050.

## ReFuelEU Aviation

The legislative proposal aims to ensure a level playing field for sustainable air transport by **periodically increasing the share of sustainable aviation fuel (SAF) to supply at Union airports**. The proposal fully relies on the Renewable Energy Directive (RED) to define and certify SAF and, from 2030, **a minimum share of synthetic fuels**, with both shares increasing progressively until 2050. **SAFs would make up 70% of all fuels supplied to operators at EU airports by 2050 (tbc)**. It has been voted positively by the European Parliament and the Council vote should take place in October.

## The Hydrogen and gas markets decarbonisation package

The legislative proposals aim **to create dedicated hydrogen infrastructure and a hydrogen market**. The proposals introduce **a definition of low-carbon hydrogen (greenhouse gas savings of at least 70%)** and a certification system for low-carbon hydrogen including **a methodology for determining emission savings** to be spelled out in a Delegated Act by the end of 2024.



# Demonstration – Deployment - Financing

## Hydrogen and Fuel Cell R&D Update

- EUR 195 million call 2023.

## Innovation Fund

- The Innovation Fund's **third call for large-scale** projects: 8 projects directly targeting the hydrogen sector, plus an additional 11 projects indirectly related with the production and use of hydrogen. EUR 700 million.

## The European Hydrogen Bank

- The Domestic side of the bank implemented through **auctions** under the Innovation Fund. The Commission will launch on 23 November 2023 a first auction (EUR 800 million) for supporting the production of renewable hydrogen. Winners of this auction will receive **a fixed premium (4.5€) for each kg of renewable hydrogen produced over a period of 10 years.**

## Relaunch of the European Hydrogen Valleys Platform (8 May 2023)

- The platform now features 55 hydrogen valleys identified in the EU, at different stages of development from the concept to pre-FID to operational.

This work will lead to the publication of the European Roadmap for Hydrogen Valleys, to be published on the last quarter of 2023.

# Industrial Alliances



## Renewable and Low-Carbon Fuels Value Chain Industrial Alliance

The Renewable and Low-Carbon Fuels Value Chain Industrial Alliance is a new initiative that focuses on boosting production and supply of renewable and low-carbon fuels in the aviation and waterborne sectors.

It is a key flanking measure to the FuelEU Maritime and RefuelEU Aviation initiatives.

The objective is to prepare the aviation ecosystem for the entry into commercial service of hydrogen-powered and electric aircraft. These novel propulsion technologies will contribute to decarbonise intra-EU flights and enable new climate-friendly mobility offers.



# European Commission – Profile October 2023



For the EC - Top three priorities for the IPHE to focus on in the next five years and accelerate global progress.

IPHE: The platform for exchanges among government officials.

- Allow hydrogen and hydrogen based alternatives to become traded commodities – creation of a global market.
- Develop standardisation and certification at global level (the latter conducive of trade).
- Address the issue of education, skills and training – the need for a workforce.

**Clean hydrogen project deployment: does ambition match the reality?**

Next EHF – 20 November 2023 during the Hydrogen Week (20-24/11/23)



Relaunch on 29 September of the **European Hydrogen Observatory**

[Homepage | European Hydrogen Observatory \(europa.eu\)](#)



# Thank you



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