



International Partnership  
for Hydrogen and Fuel Cells  
in the Economy

# United Kingdom Update

38<sup>th</sup> IPHE Steering Committee Meeting  
29 – 30 November 2022  
San José, Costa Rica

# Announcements / New Initiatives United Kingdom

## New Initiatives, Programmes, and Policies on Hydrogen and Fuel Cells

- July 2022: Update to the market, details on hydrogen production strategy, appointment UK Hydrogen Champion
- July 2022: Hydrogen Sector Development Action Plan
- In July 2022: Low Carbon Hydrogen Standard, implemented by projects applying to government funding schemes.
- August 2022: Consultation on Transport and Storage infrastructure, T&S business model by 2025

# Announcements / New Initiatives United Kingdom

## Hydrogen production & supply:

- May 2022: launched strands 1 and 2 of the Net Zero Hydrogen Fund (NZHF)
- July 2022: first joint Hydrogen Production Business Model / NZHF electrolytic hydrogen allocation round, closed in October. Applications under review, shortlist of projects to be published in early 2023.

## Hydrogen Use

- October 2022: Opened 6<sup>th</sup> competition round of £315m Industrial Energy Transformation Fund, investments in hydrogen fuel switches among other energy efficiency and low carbon/decarbonisation technologies
- October – November 2022: Net Zero Innovation Portfolio (NZIP) - £26m Industrial Hydrogen Accelerator + £55m Industrial Fuel Switching 2 competition
- August – October 2022 - Transport: Zero Emission Road Freight Demonstrators, £60m Clean Maritime Demonstration Competition, £20m Trees Valley Hydrogen Transport Hub R&D competition

# Announcements / New Initiatives United Kingdom

## Key Collaborations – International

- CEM H2 Twin Cities – joint announcement with US and Japan at COP27
- North-West European hydrogen monitor - CEM H2I-IEA
- Breakthrough Agenda :
  - Report published in September 2022 by the International Energy Agency (IEA), the International Renewable Energy Agency (IRENA) and the UN Climate Change High-Level Champions (UN HLAC)

# *Insert Country Name* – Profile April 2022

## Status of Deployments

- Up to 20GW of low carbon hydrogen production projects in UK pipeline
- Almost 50 projects in public domain, green & blue H2
- CCUS cluster sequencing – Phase 2 underway
- Low Carbon Hydrogen Standard
- First joint allocation round for electrolytic projects for NZHF & business model – shortlist expected to be published in early 2023

## Leading Government Initiatives

- UK Hydrogen Strategy
- Energy Security Strategy
- Hydrogen Investment Package, incl. Hydrogen business model – revenue support and £240m Net Zero Hydrogen Fund – capital support
- UK Low Carbon Hydrogen Standard
- COP26 Hydrogen Breakthrough initiative

## Focus Areas

- Production electrolytic & CCUS-enabled H2
- Low carbon H2 standard + H2 certification scheme
- H2 T&S business models
- Use & fuel switching in industry
- H2in power
- Transport (+ shipping/aviation)
- Heating & blending trials

## Deployment Goals

- 10 GW installed production capacity by 2030 – with at least 5GW electrolytic

## Funding

- £375 mil April package –incl. for NZHF, hydrogen business model, Industrial Hydrogen Accelerator

# Thank you



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