



International Partnership
for Hydrogen and Fuel Cells
in the Economy

United Kingdom Update

39th IPHE Steering Committee Meeting
26 – 27 April 2023
Pretoria, South Africa

Announcements / New Initiatives *United Kingdom*

Recent Announcements, Government Funding & Policies

- April 2023: Update to our [Low Carbon Hydrogen Standard](#) & publication of new [Investor Roadmap](#)
- March 2023:
 - confirmed the first 15 winning projects from the £240 million [Net Zero Hydrogen Fund](#), second competition round in Spring.
 - Shortlist of [20 projects](#) in the first electrolytic hydrogen allocation, up to 250MW of new electrolytic hydrogen production capacity. Second electrolytic allocation round planned for later this year, through which we intend to support up to 750MW capacity.
 - Named the [two CCUS-enabled hydrogen projects](#) moving forward on the Track-1 clusters, intended to support our ambition for up to 1GW of CCUS-enabled hydrogen in operation or construction by the end of 2025.
- February 2023: [Consultation](#) on a low carbon hydrogen certification scheme, due to be set up by 2025.
- December 2022: Finalised the [Heads of Terms for the Hydrogen Production Business Model](#)

Announcements / New Initiatives *United Kingdom*

Demonstration, Research and Innovation :

- March 2023: the Low Carbon Hydrogen Supply 2 innovation programme awarded £19 million of funding to 5 new demonstration projects to develop technologies in the production and supply of hydrogen.
- Dec 2022: Industrial Hydrogen Accelerator programme with up to £20m in funding available for innovation projects that can demonstrate end-to-end industrial fuel switching to hydrogen.
- £10m NZIP Green Distilleries Competition is progressing 3 demonstration projects.

Department for Transport

- £20 million Tees Valley Hydrogen Transport Hub which will see demand and supply for hydrogen transport collocated and £300,000 to support the development of relevant skills in hydrogen transport. Winning bids will be announced shortly.
- Zero Emission Road Freight Demonstrator (ZERFD) programme which will demonstrate zero emission HGV technologies, including hydrogen fuel cell, at-scale on UK roads over the coming years. Winning bids will be announced shortly.
- February 2023: Launch of the Zero Emission Vessel and Infrastructure (ZEVI) competition, with £77m available to accelerate the roll out of zero emission solutions for vessels and port-side infrastructure that are nearing commercialisation, including hydrogen and derivatives.

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Key Collaborations – International

- UK Partnering for Accelerated Climate Transitions – bilateral climate finance cooperation with partner countries including South Africa, Mexico, Vietnam
- North Sea Energy Cooperation
- 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)
 - Work underway to coordinate priority actions and deliverables for COP28.
- Bilateral MoUs, for instance with Belgium, Norway

United Kingdom – Profile April 2023

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 2 hydrogen projects selected under Phase 1, Phase 2 underway
- Up to 250MW of new electrolytic hydrogen production capacity from first joint allocation round for electrolytic projects for NZHF & business model: shortlist of 15 projects (NZHF) + 20 projects H2BM)

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
- Hydrogen Certification scheme under development
- 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

- £375m –incl. for NZHF, hydrogen business model, Industrial Hydrogen Accelerator.

Thank you



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