



International Partnership
for Hydrogen and Fuel Cells
in the Economy

United Kingdom Update

37th IPHE Steering Committee Meeting
26 – 27 April 2022
Virtual Meeting

Announcements / New Initiatives *United Kingdom*

- **Energy Security Strategy (April 2022)**: The government published the British Energy Security Strategy which sets out how Great Britain will accelerate homegrown power for greater energy independence.
 - **Doubled previous ambition to 10GW of low carbon hydrogen production by 2030**, subject to affordability and value for money.
 - **At least half of this will come from electrolytic hydrogen**, drawing on the scale up of UK offshore wind and other renewables and new nuclear.
 - Aim to run **annual allocation rounds for electrolytic hydrogen under the hydrogen business model**, moving to price-competitive allocation by 2025 as soon as legislation and market conditions allow.
 - Up to **1GW of electrolytic hydrogen in operation or construction by 2025**, alongside existing commitment for up to 1GW of CCUS-enabled hydrogen.
 - Design new **business models for hydrogen transport and storage infrastructure by 2025**.
 - Set up a **hydrogen certification scheme by 2025**.

- **Hydrogen Investment Package (April 2022)**: As part of a wider £375 million package of support for innovative energy technologies, the government:
 - Published a **Hydrogen Investor Roadmap** - shines a spotlight on the numerous investment opportunities across the hydrogen value chain
 - Published the **response to our consultation on a Low Carbon Hydrogen Standard** - with the intention of setting a max threshold for GHG emissions for low carbon hydrogen
 - Published the **response to our consultation on the Net Zero Hydrogen Fund** - designed to support at-scale deployment of production projects
 - Published the **response to our consultation on the Hydrogen Business Model** & indicative **Heads of Terms for the hydrogen business model contract** – to provide revenue support for hydrogen production

United Kingdom – 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 & calculator live
- Net Zero Hydrogen Fund (NZHF) open for applications
- Joint allocation round for electrolytic projects for NZHF & business model opens summer 2022

Leading Government Initiatives

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

Goals or Focus Areas

- Production support for electrolytic & CCUS-enabled H2 - hydrogen business model, NZHF, low carbon H2 standard
- H2 certification scheme
- H2 T&S business models
- Use & fuel switching in industry
- H2 in power (G2P, P2G, P2G2P)
- Transport (+ shipping/aviation)
- Heating & blending trials

Deployment Goals

- Ambition for 10GW low carbon hydrogen production capacity by 2030, with at least half from electrolytic hydrogen
- Aim for up to 1GW electrolytic hydrogen & up to 1GW CCUS-enabled hydrogen in operation or construction by 2025

Funding

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

Thank you



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