International Partnership for Hydrogen and Fuel Cells in the Economy

Germany Update

43rd IPHE Steering Committee Meeting

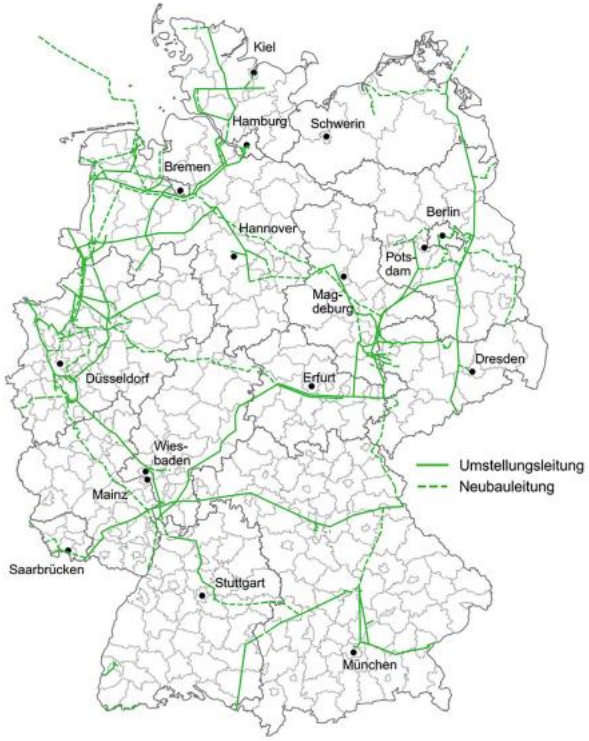
10-11 June 2025

Santiago, Chile

Announcements / New Initiatives *Germany*

Investments/Funding/Policies/Initiatives

- In November 2024, the German development bank KfW announced a € 24 billion loan to finance the **H_2 amortisation account** - an essential **mechanism for enabling the national hydrogen core network**.



- In February 2025, Hintco launched the **second H2Global auction round**. The supply-side tender includes five lots - four regional and one global - with a minimum allocation of € 484 million per regional lot and € 567 million per global lot. The tender targets RFNBOs and features both product-and vector-open lots. The global lot is jointly funded by Germany and the Netherlands.

Announcements / New Initiatives *Germany*

New Research & Development

- In November 2024, Daimler Truck received a total of € 235 million in public funding for its **"Pegasus" project** which aims to develop, produce, and test 100 heavy-duty trucks powered by liquid hydrogen. The project has been classified as an IPCEI by the European Commission.
- The energy service provider EWE completed its **HyCAVmobil research project** **on hydrogen storage** at its gas storage site in Rüdersdorf. As part of project, EWE and the German Aerospace Center (DLR) were able to prove that it is possible to **safely store hydrogen in an underground cavern**.

Announcements / New Initiatives *Germany*

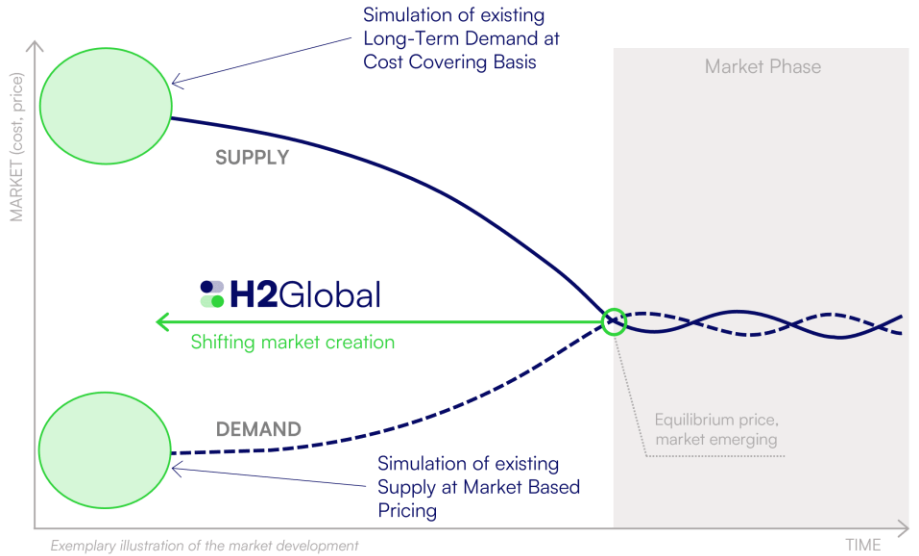
Demonstration and/or Deployment Activities

- In December 2024, the **BioH2Ref** project for the first time **produced hydrogen with a purity of 99.999%** from **agricultural residues** at a facility in Krefeld.
- In February 2025, Bielefeld's public transport company moBiel **put the first 9 of a total of 25 new fuel cell buses into operation**. The vehicles, including eight 12-meter buses and seventeen 18-meter (articulated) eCitaro Fuelcell buses, can be powered by both hydrogen and electricity.
- In April 2025, **EnBW commissioned Germany's first hydrogen-ready gas-fired combined heat and power** plant in Stuttgart-Münster. Equipped with two 62-MW hydrogen-compatible turbines supplied by Siemens Energy, the facility will initially run on natural gas and is expected to transition to 100% hydrogen operation by the mid-2030s.

Announcements / New Initiatives *Germany*

Key Collaborations

In January 2025, Germany committed up to € 588 million for two hydrogen import tenders with **Canada** and **Australia** as part of the **H2Global bilateral auction programme**. Australia intends to co-finance a € 400 million auction and Canada a € 200 million auction.



Germany – Profile June 2025

Status of Deployments

Application	Capacity (May 2025)
Electrolyser	163 MW
FC Trucks	294
FC Busses	171
FC Cars	1,874
Operational refueling stations	75

Leading Government Initiatives

- IPCEI
- H2Global
- National core H2 network
- Climate protection contracts (CCfDs)
- REDII implementation
- AFIR implementation

Goals or Focus Areas

- Availability of hydrogen
- Infrastructure
- Implementing applications in industry, transport and power generation
- Framework conditions

Deployment Goals

- 10 GW electrolysis capacity by 2030 in Germany
- 45-90 TWh imports of hydrogen and derivatives by 2030

Funding

Various programs and mechanisms (see initiatives)

Thank you

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