



International Partnership
for Hydrogen and Fuel Cells
in the Economy

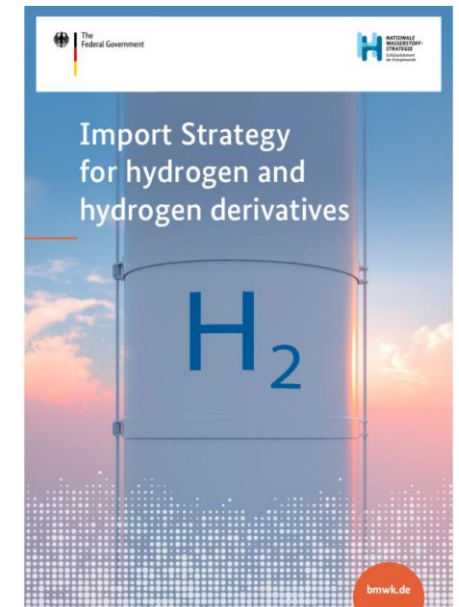
Germany Update

42nd IPHE Steering Committee Meeting
20 - 21 November 2024
Brussels, European Commission

Announcements / New Initiatives *Germany*

Policies/Initiatives

- In May, the German Government agreed on the **Hydrogen Acceleration Act** creating the legal framework for the rapid development and expansion of production, import and storage capacities of hydrogen
- In July, the German Federal Cabinet adopted the **National import strategy for hydrogen and hydrogen derivatives**. Initial expected domestic demand:
 - 95 - 130 TWh by 2030, with approx. 50% - 70% expected to be covered by imports
 - 360 - 500 TWh of hydrogen and around 200 TWh of hydrogen derivatives by 2045



Announcements / New Initiatives *Germany*

Policies/Initiatives

- In May, the **second amendment to the Energy Economy Act (EnWG)** came into force. Amongst others, the amendment establishes a framework for financing a core hydrogen network. In October the **Bundesnetzagentur (Federal Network Agency)** approved the joint application of German gas transmission system operators to develop a hydrogen core network.
 - The approved network includes a total of **9,040 kilometres of pipelines**
 - The total investment costs are expected to be **€18.9bn**
 - The core network pipelines are scheduled to be gradually commissioned between 2025 and 2032

- In July, the German Federal Government **approved a new strategy under the Power Plant Security Act**, which will tender a total of 12.5 GW of power plant capacity along with 500 MW of long-term storage. This strategy focuses primarily on new H2-ready gas power plants.



Announcements / New Initiatives *Germany*

Investments/Funding

- **H2Global: Ammonia results of the 1st tender** round for the import of green hydrogen derivatives have been published:
 - Between 2027 and 2033, at least 259,000 tons of green ammonia will be imported to Europe/Germany
 - Net price (excluding transport and import costs) of 811 €/t of ammonia, or less than **4.50 €/kg of green hydrogen**
 - Contract between Hint.co and Fertigllobe of up to € 397 million
 - In March 2024, a MoU between Germany and Canada was signed to establish a joint H2Global financing window
- In July, the German Government launched the implementation of 23 **IPCEI H2 projects** in Germany

Announcements / New Initiatives *Germany*

New Research & Development, Demonstration and/or Deployment Activities



- BMDV announced the launch of the NIP R&D project BALIS 2.0
 - Funding for the development of fuel cell drives for regional aircraft with 40 to 80 seats
 - Approximately €9.3 million will be invested between 2024 and 2026 to develop a 350kW fuel cell module, forming the basis for a powerful megawatt drive system (up to 10 MW)

Key Collaborations

- In May, **Germany, Austria and Italy** signed a joint declaration of intent for the development of the southern hydrogen corridor (SouthH2 Corridor)
- Via the SouthH2 Corridor imports from North Africa to important hydrogen demand clusters in Italy, Austria and Germany are to arrive through southern Italy



Germany – Profile November 2024

Status of Deployments

Application	Capacity (October 2024)
Electrolyser	108 MW
FC Trucks	219
FC Busses	162
FC Cars	2,202
Operational refueling stations	86

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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