



International Partnership
for Hydrogen and Fuel Cells
in the Economy

Germany Update

36th IPHE Steering Committee Meeting
16 – 17 November 2021
Virtual Meeting

Announcements / New Initiatives *Germany*

• Investments/Funding/Policies/Initiatives

- Development of renewable fuels with a total of 640 million euros funding by BMVI
 - New funding guidelines for alternative drives trains were published for trains, trucks, buses, as well as for fuel cell cars in fleets and for refuelling infrastructure for heavy duty vehicles.
 - IPCEI prenotification process and matchmaking of preselected projects has started.
 - H2 Global – Instrument to support import of green hydrogen is in launch phase.

• New Research & Development, Demonstration and/or Deployment Activities

- Europe's largest PEM green hydrogen electrolyser (10 MW) started operation at Shell's Rhineland Refinery in Wesseling as part of the REFHYNE project.
- Funding approval notice for the construction of a 20 MW electrolyser for the production of green hydrogen by Air Liquide Germany in Oberhausen
- The winners of the second phase of the HyLand programme were officially announced in the HyStarter and HyExperts categories. Fifteen regions won each category, so a total of 30 regions were announced.

Announcements / New Initiatives *Germany*

- **Key Collaborations**

- Germany joined the Clean Hydrogen Mission as part of Mission Innovation

- **Other**

- Federal Government published the first progress report on the implementation of the National Hydrogen Strategy

Applications – Current Status and Goals

GERMANY



Application	Status	Goal
Fuel Cell Vehicles (light duty)	1347 (September 2021)	n.a.
FC Buses	54 (September 2021)	n.a.
FC Trucks	20 (October 2021)	n.a.
Forklift trucks	117 plus 167 approved for funding (some of them currently starting into operation)	n.a.
HRS 70 MPa	91 plus 15 in planning or under construction	100 by 2020
HRS 35 MPa (delivered)	10 plus 9 in planning or under construction	- 400 by 2025 (depending on vehicle roll-out, irrespective of dispenser pressure level) - 1000 by 2030 (depending on vehicle roll-out, irrespective of dispenser pressure level)
Small stationary FC CHP	18,251 units approved for funding (2016 through September 2021)	n.a.
Small back-up power FC	700 in operation (558 additionally approved for funding)	n.a.
Water electrolysis	58 MWel	5 GW by 2030



Thank you



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