



International Partnership
for Hydrogen and Fuel Cells
in the Economy

Germany Update

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

Announcements / New Initiatives *Germany*

Investments/Funding/Policies/Initiatives

- Federal government is currently working on **revising the hydrogen strategy** in order to anchor the targets from the coalition agreement (e.g., increasing the electrolyser capacity to 10 gigawatts by 2030).
- In December 2022, the Federal Ministry of Economics and Climate Protection (BMWK) **started the tendering process** for the import of green hydrogen derivatives under the **H2Global mechanism**.
- In February 2023, the **European Commission assessed and approved** a €55 million (approx. USD 60,05 million) direct funding for a **green hydrogen project of steel company** ArcelorMittal Hamburg GmbH by the federal government under EU state aid rules.
- In February 2023, NOW GmbH, on behalf of the BMDV, started a **funding call for electrolysis plants** for the production of **hydrogen for the transport sector**.

New Research & Development, Demonstration and/or Deployment Activities

- In December 2022, the roll-out of series production of fuel cell trucks in Germany started. The “XCIENT Fuel Cell” from manufacturer Hyundai represents the start for the HyLane fleet, which will initially consist of 44 trucks.



- The deadline for the application in the HyLand competition, category HyPerformers II, ended in late January 2023. 13 projects applied, a total of €45 million (approx. USD 49,1 million) is available from the market activation guideline of the NIP II. The winners of HyPerformer II are expected to be announced in late April 2023.

Announcements / New Initiatives *Germany*

Key Collaborations

The German chapter of Dutch transmission system operator Gasunie is entering the implementation phase of the **hydrogen project** "[HyPerLink](#)". Between Bremen and Hamburg, the company is starting to convert the first 54-kilometer-long natural gas pipeline section for **transporting hydrogen**. The grid operator is making advance payments of around €10 million (approx. USD 10,95 million). In total, the pipeline will reach a length of around 660 kilometers and connect the Netherlands with Germany and Denmark.

Numbers of Deployment and Infrastructure – *Germany*

Transportation	Target Number	Current Status	Partnerships, Strategic Approach	Support Mechanism
FC passenger vehicles (M1)	-	2,218 (April 2023)		Subsidy for purchase for fleets (NIP II 3rd Call) incl. construction of refueling infrastructure.
FC busses (M1-M3)	-	104 (April 2023)	Joint procurement in Europe, funded by JIVE, FCH-JU and NIP I and II	Subsidy for purchase (NIP II call 2018) incl. construction/installation of refueling infrastructure. New funding guideline for procurement of vehicles and infrastructure since 2021 in place. Duration 2021-2025. Two calls already happened.
FC commercial vehicles (N1-N3)	-	43 (April 2023)		R&D activities of NIP. New funding guideline for procurement of vehicles and infrastructure since 2021 in place Duration: 2021-2026. Two calls already happened.
Forklifts	-	201 (April 2023) plus 189 in implementation	Industry Network Clean Intralogistics Net (CIN)	NIP market activation, additional procurement call.



Numbers of Deployment and Infrastructure – *Germany*

H ₂ Refueling Stations	Target Number	Current Status	Partnerships, Strategic Approach	Support Mechanism
70 MPa Delivered	100 by 2020 (basic network)	89 in operation + 4 in optimization mode (refueling already possible, but not yet officially opened), plus 15 in planning or under construction (Feb 2023)	H2 Mobility, others	Subsidy for construction/ installation for publicly accessible stations for road transport.
35 MPa Delivered	400 by 2025; 1000 by 2030 (depending on vehicle roll out)	15 in operation + 3 in optimization mode, 19 in planning or under construction (Feb 2023)	H2 Mobility, others	Subsidy for construction/ installation for publicly accessible stations for road transport.
Stationary	Target Number ¹⁶	Current Status	Partnerships, Strategic Approach	Support Mechanism
Small	No target	21,607 units approved for funding (2016 through December 2022)		KfW programme 433 of the BMWK, a combination of fix rate and capacity-related subsidies. The KfW 433 was transferred to the " New Federal Support for Efficient Buildings (BEG) ". More units will be added in the future.
Telecom backup	No target	950 (April 2023) plus 508 in implementation	Industry Network Clean Power Net (CPN)	Subsidy for procurement (NIP II call).
H ₂ Production	Target ¹⁷	Current Status	Partnerships, Strategic Approach	Support Mechanism
Water Electrolysis (PEM, Alkaline, SOEC)	10 GW by 2030. (pledged by new government)	78 MWel plus >3 GWel planned or proposed as part of IPCEI		Various support schemes.



Thank you



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