



International Partnership  
for Hydrogen and Fuel Cells  
in the Economy

# Country Update: Germany

**30th IPHE Steering Committee Meeting**  
**Pretoria, South Africa**  
**6 December 2018**

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## New initiatives, Programs, Policies

1. 7<sup>th</sup> Energy Research Programme of the Federal Ministry of Economic Affairs and Energy
  - 7 Bn.€ funding budget for innovative R&D and large-scale projects
  - Including large-scale production of hydrogen for different sectors
  - Development of a suitable framework within the large-scale projects
2. French-German cooperation to accelerate the energy transition
  - Hydrogen is addressed in this cooperation
  - facilitate possible industrial cooperation
  - Joint funding for R&D projects
3. Mission Innovation IC#8 for Renewable and Clean Hydrogen
  - Doubling R&D efforts for FCH technologies by 2020
  - Multinational research and large scale demonstration efforts
  - Information sharing platform

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## Current Data

|                               | Target Number              | Current Status   | Partnerships, Strategic Approach                                     | Policy Support   |
|-------------------------------|----------------------------|--|--|--|
| Fuel Cell Vehicles            | No target                  | Around 500 (Nov. 2018)   | -  | Subsidy for purchase for fleets (NIP II 3 <sup>rd</sup> call 2018) incl. construction/installation of refueling infrastructure |
| FC Bus                        | No target                  | 16 buses in operation, funding for 51 more secured (Nov. 2018) | Joint procurement in Europe, funded by JIVE, FCH-JU and NIP I and II | Subsidy for purchase (NIP II call 2017) incl. construction/installation of refueling infrastructure                            |
| Fuel Cell Trucks              | No target                  | -  | -  | NIP II for R&D   |
| Forklifts                     | No target                  | > 100 units as of Nov. 2018                                    | Industry Network Clean Intralogistics Net (CIN)                      | NIP II for R&D   |
| 70 MPa Delivered              | 100 by 2020<br>400 by 2025 | 55 operational as of Nov. 2018 (39 in progress)                | H2Mobility   | Subsidy for construction/ installation for publicly accessible stations for road transport (NIP II call 2018)                  |
| Small Stationary System (CHP) | No target                  | 1,900 funding approvals as of Nov. 2018                        | -  | KfW programme 433 of the Ministry of Economy and Energy (BMWi), a combination of fix rate and performance-related subsidies    |
| Telecom backup                | No target                  | >300 units as of Nov. 2018                                     | Industry Network Clean Power Net (CPN)                               | Subsidy for procurement (NIP II call 2018)   |

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## Funding updates for R&D, demonstration and deployment

### i. Government expenditures

The second phase of NIP has a budget of 250 Mio. € until the end of 2019. This relates to approximately 50 Mio. € in the period of May to November. This budget splits to R&D projects, demonstration and deployment. Exact numbers can be given with the finalist annual budget of 2018 in the beginning of next year.

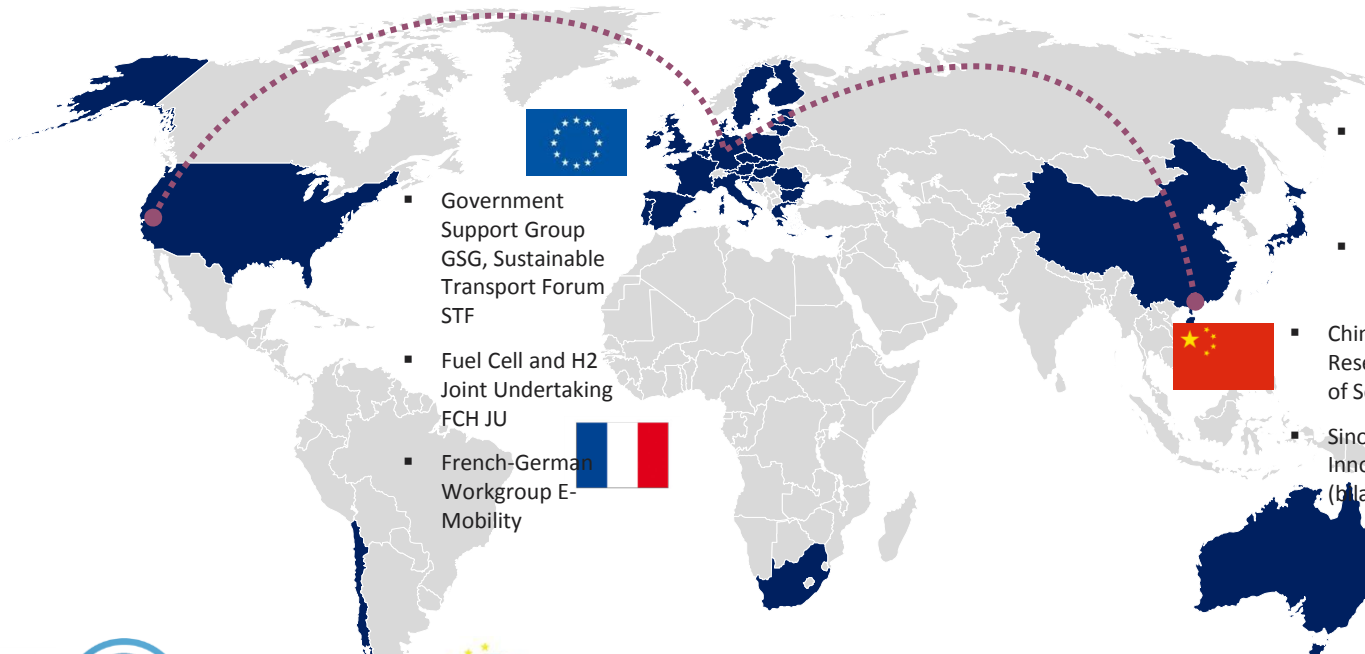
### ii. Industry expenditures

A funding budget of 50 Mio. € usually leads to investment on the industry side of about 50 to 100 Mio. €. Exact numbers are depended on the share of R&D and deployment, so final numbers can be given in the beginning of next year.

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## Views and Engagement on International Initiatives



- Government Support Group GSG, Sustainable Transport Forum STF
- Fuel Cell and H2 Joint Undertaking FCH JU
- French-German Workgroup E-Mobility



- New Technology Development Organisation NEDO & Ministry of Energy, Trade and Industry
- Bilateral Power-to-Gas-Project



- China Automotive Technology and Research Center CATARC & Ministry of Science and Technology MoST
- Sino-German Electro Mobility Innovation and Support Center SGEC (bilateral projects)

