

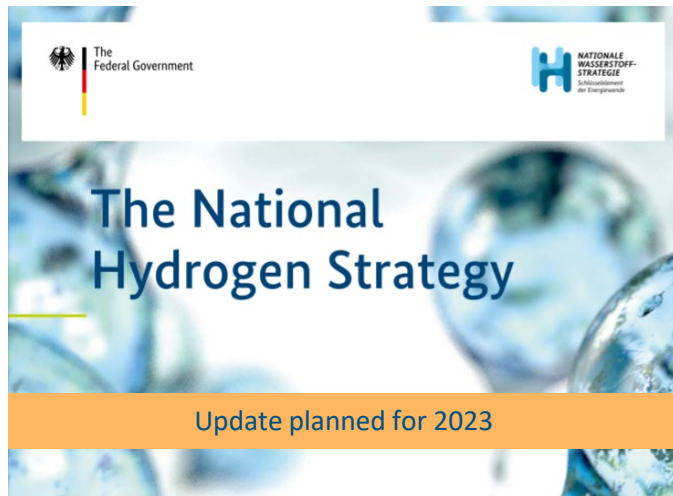


German Funding Schemes for Green Hydrogen Projects

22nd March 2023



Objectives of Germany's National Hydrogen Strategy

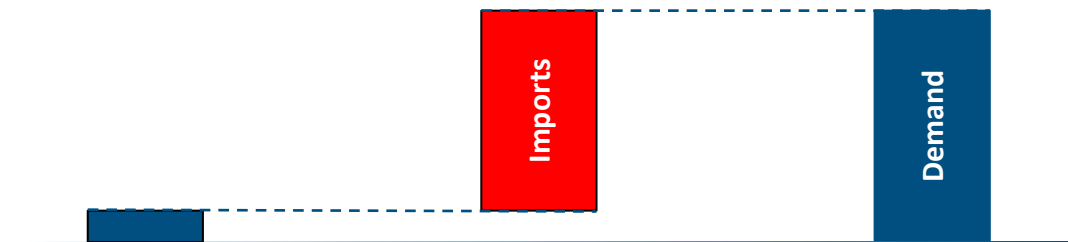


Establish international markets and cooperation for hydrogen to **bring down the cost globally**

Develop a “home market” with focus on hard to abate sectors ready for **imports**

Around 90% of green hydrogen required in Germany to be imported

Germany will remain an importer of energy also in a climate neutral world



10 GW

Green H₂
production
capacities planned
for Germany 2030

=

28 TWh

Green H₂
domestic
production in
Germany 2030

62 - 82 TWh

H₂ demand to be
covered by
imports in 2030

90 - 110 TWh

Total H₂ demand
expected in
Germany 2030
mainly for green
steel and
petrochemicals

Source: Guidehouse 2020 based on BMWK 2020

Green Hydrogen Trading starting in Germany

Deadline Green Ammonia: 28 Feb. 2023
Deadline Green Methanol + SAF: 11 April 2023



Long term purchase agreements at subsidized price

Tender for green ammonia + methanol and SAF
+4.3 bio EUR grant earmarked for countries outside EU

<https://www.bmwk.de/Redaktion/EN/Dossier/market-consultation-H2Global.html>



European trading of green hydrogen

in the making by European Energy Exchange (EEX)

<https://www.eex.com/en/services/hydrogen>



H2Cloud by beyondgas AG & Co. KG in the making

<https://www.beyondgas.de/h2cloud>

Carbon Finance Revenue for Green Hydrogen Projects



Gold Standard®



- 2,2 – 6,7 Mio. EUR annual revenue from green H2 certificate sales estimated for a 100 MW green H2 project with certificate prices projected to range between 10 and 30 EUR per tonne CO2
- First contracts foreseen to be signed in 2023
- More info: www.hydrogenfornetzero.org
- Webinar took place on 15 February 2023. Recording can be found [here](#).

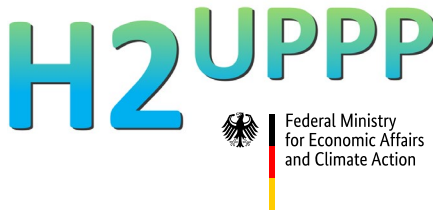
Grant Funding for Indo-German Green Hydrogen Projects



- German Funding Guideline with focus on Research
- Up to 15 Mio. EUR grant per green H2 project
- German investor required
- More info:
<https://www.ptj.de/en/project-funding/international-hydrogen-projects-bmwk-module-1>

Since 2022 Indo-German Cooperation on Green Hydrogen

Political partner is the Ministry of New and Renewable Energy (MNRE)



- Focus on private sector and specific green hydrogen project development under PPP model
- Up to 2 million EUR grant for IND-GER green H2 projects
- At least 100,000 EUR (in-kind) contribution by German partner required
- CAPEX participation in exceptional cases
- More info: pooja.bose@giz.de

DEG Impulse Fund

Technical (Pre-)Feasibility Studies in India



- Co-financing of feasibility studies and other measures
- Typical project size of +60 Mio. EUR
- More info: info@degimpulse.de

PtX Development Fund (250 million EUR)



- Support to organize structured project financing
- Grants and conventional promotional loans containing market funds can be combined
- More info: PtX-Financing@kfw.de

PtX Growth Fund (300 million EUR)



- Financing of commercial large-scale GH2 plants and corresponding RE sources
- Accessible for European companies and consortia with Indian companies
- More info: PtX-Financing@kfw.de

धन्यवाद