

International Hydrogen Ramp-up Program (H2-Uppp)

Gefördert durch:



Bundesministerium
für Wirtschaft
und Klimaschutz

aufgrund eines Beschlusses
des Deutschen Bundestages

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

Energie  **wende**
Umschalten auf Zukunft

International Hydrogen Ramp-Up Program (H2Uppp) - the goal

The market introduction of green hydrogen needs entrepreneurial spirit and ideas.



H2-Uppp accompanies and supports efforts **to ramp up the market** for green hydrogen (H₂) and power-to-X (PtX) applications in selected developing countries and emerging economies in cooperation with the **private sector**

Early market
development

Private
sector

Project
implementation

Set-up project
pipeline

H2-Uppp – Key Figures & Country Selection

- » **Commissioning party:** German Federal Ministry for Economic Affairs and Climate Action (BMWK)
- » **Implementation partners:** German chambers for commerce (AHKs), DIHK
- » **Further partners:** Germany Trade & Invest (GTAI) & Industry associations
- » **Timeline:** 01/01/2022 to 31/12/2023, possible extension until 06/2026
- » **Volume:** 16 Mio. EURO

» **Focus countries:**

Mexico, Brazil, Chile, Morocco, Algeria, Tunisia, Egypt,
South Africa, India, Thailand, (Ukraine)

» **Extended target countries:**

Colombia, Argentina, Uruguay, Nigeria, Namibia, Turkey, (Guatemala)

The 'International Hydrogen Ramp-Up Program' (H2Uppp) focuses on ...



Networking and Project Scouting

H2-Uppp supports companies on site in identifying project ideas and building networks with local stakeholders.



Public Private Partnerships (PPP)

H2-Uppp works with private companies to jointly implement pilot projects along the entire value chain of green hydrogen.



Know-how and Capacity Development

H2-Uppp supplements the project development with in-depth studies, dialog formats and technical trainings.

From idea to contract

Application review by GIZ
(Technical review, sustainability standards ...)

Application by the company

Review by BMWK
(Commissioning party)

Joint project preparation (task definition, finding consortium partners, ...)

Contract signing
GIZ & private company



PPP Project example in H2-Uppp

Mexico - Marengo I: The road to decarbonization with Green Ammonia

Offgrid Green Ammonia Production in Mexico for export and local use.

Company (applicant) Hy2Gen (D)

Company in Mexico Mexion

PPP - Project Blueprint for offgrid green ammonia production projects that is based on the feasibility analysis of a real project case Marengo I; communication & stakeholder engagement and capacity development

Volume > EUR 500,000, of which public contribution is 39%

Contribution GIZ Environmental and social impact assessment, regulatory assessment
Communication & stakeholder engagement, capacity development

Contribution companies Technical and economic feasibility assessment

Period 1,5 years

Results and Impacts of PPP Blueprint lowers risks and costs for project developers
Enhanced stakeholder engagement and improved capacities

You are welcome to contact us if you...

- ... are planning a green hydrogen project (early stage)
- ... are needing support for analysing regulatory, social or environmental issues
- ... have ideas for a jointly implementation of Private-Public-Partnership (PPP)
- ... are searching for German and European partners to create a consortium
- ... are interested in information about German funding and support instruments for green H2 and PtX
- ... are seeing the need for in-depth analysis on specific hydrogen related topics for your region
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Contact

Regine Dietz

Head of Programme

Regine.Dietz@giz.de

H2Uppp@giz.de

[PPP-Call for Proposals](#)



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PPP Project idea in H2-Uppp

Long-distance inter-city bus transport

Inter-state bus transport in country X using fuel-cell powered buses.

Company (applicant) To be disclosed after approval

Company in country To be disclosed after approval

PPP - Project Development of prototype fuel-cell buses to a) demonstrate the viability, b) develop and pilot licensing requirements, and c) initial training of mechanics (to ensure sustainability of operations after hand-over).

Volume > EUR 1,900,000, of which public contribution from GIZ is 40%

Contribution GIZ Materials and parts, licensing process, training

Contribution firms Staff time for construction of prototypes, testing & licensing, simulation of routes & optimal design

Contribution Indian public sector Allocation of route license, operating costs of fuel-cell buses, allocation of land, construction of hydrogen refueling station, delivery of green H2

Period 1,5 years

Results and Impacts of PPP Prototypes prove the business case for FC powered buses.
Operation of prototypes supports market entry (for expansion into the market).

Innovation Challenge

● Current status: Open for proposals

Deadline: 30.12.2022

Call for proposals: H2-Uppp Promotion of green hydrogen and its derivatives in emerging and developing countries

Submit your innovative projects to support PPPs along the complete H2/PtX value chain and contribute to the development of hydrogen markets in a partner country.

Would you like to invest in green hydrogen or its derivatives with your company in a developing or emerging country? On behalf of the BMWK, GIZ offers funding for German and European companies that are active in the H2 sector or would like to become so.

In Public Private Partnerships (PPPs), private and public partners contribute their strengths in a formalised partnership to **develop the market for green H2/PtX technologies and applications along the value chain**. GIZ is the public partner in the PPPs and contributes technical expertise, its structures and networking on the ground to the projects. **PPP projects pursue a non-profit purpose**, i.e. the measures must go beyond the company's own interests and distortions of competition must be avoided.