H₂Uppp

International Hydrogen Ramp-Up Program



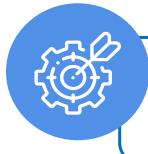


aufgrund eines Beschlusses des Deutschen Bundestages

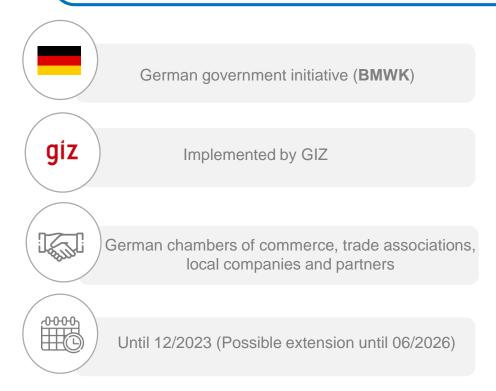




H2 Uppp: a program for the development of green H2 projects (early stage) in markets outside Europe.

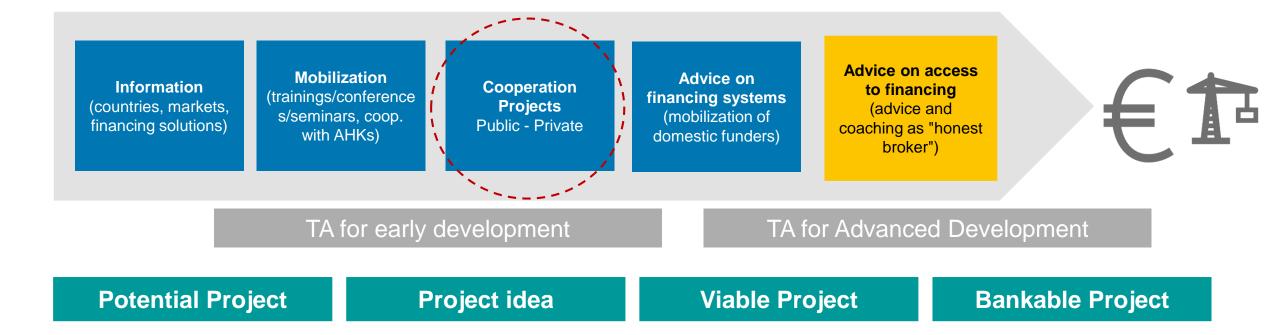


H2-Uppp accompanies and supports efforts to boost the green hydrogen (H2) and Power-to-X (PtX) market in selected developing countries and emerging economies in cooperation with the private sector.





Concrete H2Uppp services for green H2 market development in the region





H2Uppp regional Service: Market Information

Country Briefs

Quick overview on country investment climate (multi-lingual)



Get a quick overview of a country's investment climate for Green H2

Market Insights

Guidance on "how to" enter a specific market segment in H2 value chain (multi-lingual)



Understand 'how to' enter a specific market segment in H2 value chain

Funding Database

Comprehensive, searchable, accurate database on available financing solutions for Green H2 market



Find a financier that suits your needs



H2Uppp regional Service: Market Mobilisation

Networking with industry associations

+15

Communications with public institutions

+10

Meetings with private companies

+150





















Plataforma para el desarrollo del hidrógeno verde en Latinoamérica













































H2Uppp regional Service: Market Mobilisation











Press releases





























+65

Participants technical seminars organized by H2Uppp

+3000

Newsletter subscribers

+3700

Public-Private Partnerships: Agreement between GIZ and private enterprise



Projects along the entire H2 value chain



H2 green and derivatives



Sustainable development *in the project country*



Public Benefit purposes, public contet and results



Synergies between German/European companies and local partners



Service agreement

Public



Private



Cooperation agreement

- Public contribution are minimum EUR 100,000 and up to EUR 200,000 for certain services implemented by the company.
- There is a cash flow between both parties

- The company receives up to a maximum of 50% remuneration for these services.
- Regular audits are required.
- and GIZ • company quantifiable agree on which measures. financed and implemented by each party.
- There are no cash flows between the two parties

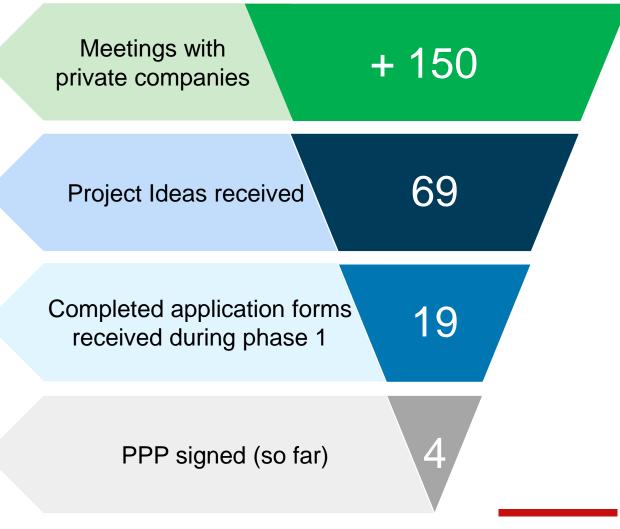
- **Public** contribution are *minimum EUR 100,000*
- **Public** cooperation includes a contribution of up to EUR 2,000,000



Numbers of H2Uppp in LATAM region

Highlights

- The "funnel" illustrates the performance from the beginning of the process, but also the company's journey from the first contact to the approval of the PPP.
- Throughout the application process, 69 companies decided to work on a project idea to apply to H2Uppp
- Thanks to the support of H2Uppp teams in LATAM region, 19 concrete proposals were developed until a completed version.
- Of the 19 forms received, 4 materialized in PPPs currently under development, while a part of the rest is being evaluated for implementation during 2023, and the other part has expressed interest in applying for a potential phase 2.





Geographic PPP Pipeline Distribution

➤ Strong interest from the private sector in all H2Uppp focus countries in LATAM.

Large number of proposals in their final version ready for evaluation -> potential for future PPP projects in phase 2.

➤ At least 3 more PPPs are expected to implemented in LATAM during phase 1.



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AHK cooperation across LATAM:

PROJECT SCOUTING

- Building a pipeline of **PPP** project candidates
- Promotion of the PPP instrument
- Linking companies
- Driving PPP applicants to H2Uppp

OUTREACH & COMMUNICATION

Communicate the benefits of green H2 and the project activities

RAISING AWARENESS

- Mobilize the private sector
- Generate leads for PPP instrument
- Forge partnerships
- Promoting B2B relations with Germany on national and subnational level
- Raising awareness for green H2 investments

DELEGATIONS & BUSINESS CASE LABS

- Selected regional events/forums
- Business case labs in the region





PPP Stories in H2Uppp - Cooperation Agreement Mexico - Marengo I: The road to decarbonization with Green Ammonia



Applicant Company

HY2GEN



Volume

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





"The cooperation of GIZ Mexico through H2-Uppp, with Hy2GEN and MexCo will support them in the development of projects and proposals with sustainable impact for all", Elke Hüttner, GIZ GloBe.



About this PPP

Development of a Green Ammonia Blueprint for feasibility of an integrated off-grid production plant in Mexico, including regulatory critical path and safeguards assessments, as well as capacity development of external actors.





Results and impacts

Reduction of risks and costs for project developers. Greater commitment of the stakeholder engagement and improved capacities. Environmental, social, safety and techno-economic analysis of the project. Map of a regulatory path for off-grid green ammonia plant







PPP Stories in H2Uppp - Cooperation Agreement Brazil - MELE Biogas GmbH: Production of sustainable hydrogen derivative from biogas and green hydrogen









Applicant Company

MELE Biogas GmbH



Volume

> EUR 2,638,400, of which 20 % public contribution



About this PPP

Development of a concept for the sustainable use of agricultural waste to produce green SynCrude and build knowledge about technical possibilities and economic opportunities with the aim of accelerating the development of the green hydrogen market and its derivatives.

Implementation time: 1 year.



Results and impacts of this PPP

Ecological and economic benefit from the transfer of know-how and technical applications. The concept will improve the economic situation of participating cooperatives and support the expansion of a regional hydrogen economy.

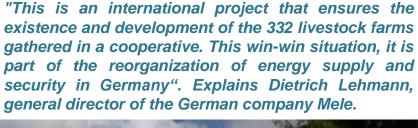




Photo by: Luíz Diaz/GIZ





PPP Stories in H2Uppp - Cooperation Agreement Brazil - SAP and GIZ Cooperate on Digital Solutions for Green Hydrogen Certificates



Applicant Company

SAP



Volume

> EUR 2,638,400, of which public contribution is 20%



About this PPP

This PPP aims to help Brazilian companies demonstrate that their hydrogen is truly green by evaluating and summarizing certification standards and testing digital solutions; this with the objective of validating general requirements and developing concepts for a green hydrogen certification support software for Brazil and Germany. **Implementation time:** 34 months



Results and impacts of this PPP

Contribute significantly to developing the hydrogen economy in Brazil and LATAM region by creating the necessary proof points through reliable certification solutions.



"We're excited to work with GIZ on this project, which will eventually allow certification data to be exchanged and evaluated along the value chain in a tamperproof, cost-efficient, and traceable manner," Sabine Bendiek, chief people and operating officer and member of the Executive Board at SAP SE.







PPP Stories in H2Uppp - Service Agreement Chile: Solar NH3-Pool Chile











Applicant Company Volume Soventix

> EUR 300,000, of which 50% public contribution

"The collaboration with H2-Uppp has allowed us to contribute in relevant topics for the development of the green hydrogen industry in Antofagasta Region, such as the proposal for a Green Hydrogen Industrial Park in Mejillones. The support of GIZ and the explicit objectives of a collaborative PPP project opens doors and allows us to make a novel contribution to the development of the regional green H2 hub" Jorge Taboada, Executive Director at Soventix.



About this PPP

Design of a sustainable green hydrogen and ammonia production plant pool in the Antofagasta region based on an optimized regional infrastructure analysis, including a techno-economic and structural assessment. **Implementation time:** 1 year.



Results and impacts of this PPP

Green hydrogen and ammonia production pools enhance resource efficiency and sustainability, and enable smaller players to participate in large-scale projects.



Mejillones Port Complex (@CPM S.A)





H2Uppp HUB team: Chile, Argentina and Uruguay

Javier Ortiz de Zuniga (Chile) Jefe de Equipo H2Uppp





Ignacio Jofré (Chile)
Asesor Técnico

Jose Fuster (Chile) Asesor Técnico







Gloria Cuadra Herrera (Chile) Asesora Técnica

Maria Jose Lambert (Chile) Asesora Técnica





Gabriel Fuentes (Chile)
Asistente Técnico Junior

BACKSTOPPING
Cristian Fuentes (Chile)
Asesor en
Comunicaciones 4E





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