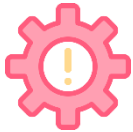




H2V Test bed: Multipurpose Platform for Validation and Technological Scale-Up of Green Hydrogen H2V

Development Area: Green Hydrogen and Derivatives

Problem:



Chile **does not have experimental infrastructure to validate hydrogen technologies under Atacama Desert condition**. This creates three effects: a) Technological uncertainty, b) Investment risk and project delays c) Chile lacks human talent capacity to develop the industry.

Solution:



Develop a multipurpose hydrogen testbed to enable, validate, optimize and scale production, storage, and end-use technologies under real Atacama Desert conditions, generating technical data and capabilities that support the deployment of testing infrastructure.

expected impact:



- Reduction of technological risk.
- More accurate production cost.
- Increase in specialized human capital.
- Positioning of the Antofagasta región as a technological hub for green hydrogen and derivatives.
- This Will enable the alignment of supply and demand from a technological validation perspective.



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Test Bed Project Sheet



Test Bed services:



- Pilot testing of technologies for production, storage, conditioning, uses cases, and operational testing services, as well as system integration.
- Evaluation of waste valorization: new material and industrial applications..
- Benchmarking of suppliers and optimization of operational parameters.
- Generation of technical information for pre-feasibility studies.
- Support in the development of technical standards for the operation of green hydrogen plant.

Benefits for partners:



- Reduction of investment risk through access to real data, performance curves, and technological validation prior to major CAPEX.
- Platform to test business models.
- Opportunity for early participation in technologies and use cases with high scaling potential (early mover)

Current status:



Initiative in the pre-**investment stage**.

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