

Renewable energy is not stored
We've found a way to store it efficiently and inexpensively
creating Green hydrogen

EIC pathfinder for consortia,
To research technological Breakthroughs

Presentation for Successful R&I
in Europe 2024, 11th European
Network Events

H2 Energy Now
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Opportunity

As Europe sets its sights on connecting an ambitious 111 GW of offshore wind by 2030 and 317 GW by 2050, as was agreed in January 2023 among Member States, it faces a monumental challenge: the structural congestion of onshore grids.

In 2023 alone, Germany curtailed **8 TWh of renewable energy**, with onshore wind turbines accounting for 60% of these curtailments. This highlights a critical issue.

Curtailment means power that was generated but the grid could not take it. Lost power, lost revenue.

Technical expertise

H2 Energy Now has developed a new method for hydrogen generation using electromagnetic waves

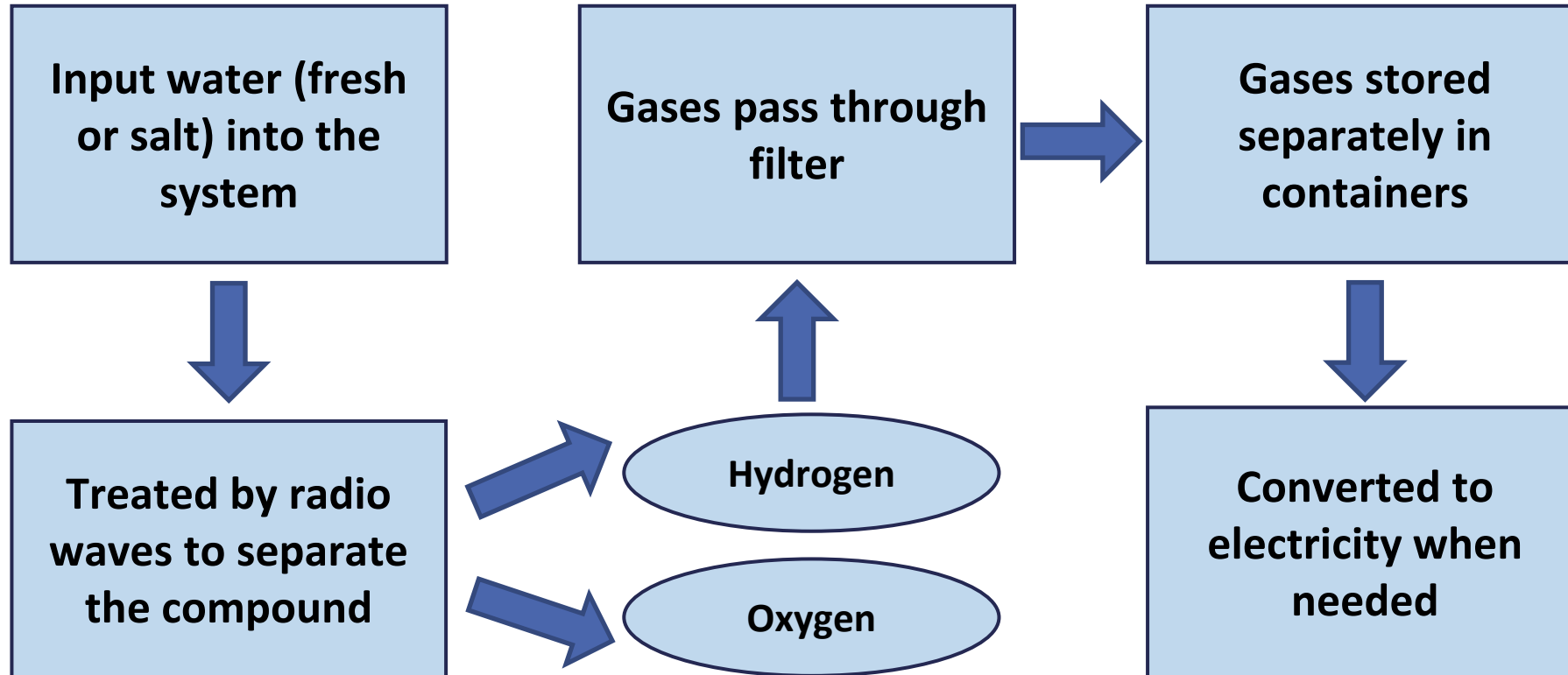
- ✓ Testing has shown 88% efficiency in separation process.
- ✓ Since we use no rare metal CAPEX is half.
- ✓ Patents in EU and USA have been granted
- ✓ Simple and cheap (1 €/kW)

Challenges

Reached (TRL 4)



H2 Energy Now Underlying Magic



It's like a battery!

Project Idea Concept

Objective: To test/commercialize a new hydrogen storage system.

Scientific/Technological challenges/Partner roles

- Lab testing and validation of a hydrogen production system
- Integration of hydrogen production solution with hydrogen storage, and conversion back to electricity systems all in the market today.
- Field testing with a strategic partner

Product Idea Impact

- ✓ Change the world by solving intermittence of wind power
- ✓ Bring a new hydrogen system to market.

Looking for Strategic Partnerships

A hydrogen lab

Hydrogen labs in Leuna, Gorlitz and Bremerhaven

Fraunhofer hydrogen labs

Westkuste 100 State of Schleswig-Holstein

GFZ Hydrogen Lab Potsdam

Hydrogen Technologies labs around Germany

A company in the business of hydrogen to electricity.

- Helmholtz International Labs

A partner who understands how to apply and coordinate a consortium.

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