Future50

Energy

Energy Storage (Thermal or Electricity)

Hydrogenious LOHC

Hydrogenious LOHC Technologies GmbH



https://hydrogenious.net/

#ClimateTech

Highlights

The company has reported that it has **55 patent families** around the world along with a diverse portfolio of investors, including large private corporations, such as **VOPAK**⁹⁶ and **Chevron;**⁹⁷ financial investor giants, such as **Temasek**⁹⁸ and **AP ventures;**⁹⁹ as well as public investments and grants from the EU. The company also indicates that it is partnering with major energy players in the region, such as **ADNOC,**¹⁰⁰ and Europe, such as **Uniper**¹⁰¹ and the **Port of Amsterdam.**¹⁰²

Strategic alliances:

- Businesses (Large Companies)
- Government (Central Authorities)

List impact technologies:

Hydrogen Transport Infrastructure

Headquarters:

Germany

Middle East operational countries:

Saudi Arabia, United Arab Emirates

Summary

Hydrogenious is a clean tech company that provides hydrogen storage technology using liquid organic hydrogen carriers (LOHC) to store and transport hydrogen. The company's technology is designed to collect and reserve hydrogen gas that can be released and converted back to supply off-takers in the industry and mobility sector.

Hydrogenious notes that LOHC is not consumed but can be reused similar to a deposit bottle, and can be transported as easily as diesel without the need for it to be pressurised or temperature-regulated. The company states that it can **reuse existing liquid-fuel infrastructure**, bringing the safely stored hydrogen to wherever it is required for usage or export – including hard-to-reach places across the country.

Impacts

Hydrogenious believes that hydrogen transportation will be fully decarbonised in the long-term, **bringing zero-CO2 energy** to every region in the world. Hydrogenious indicates that its offering allows for flexible hydrogen supply to consumers in industry and mobility across the globe, utilising **conventional liquid-fuel infrastructure**. The company adds that its solution infrastructure can be reused throughout the transporting cycle, resulting in an efficient circular system.

