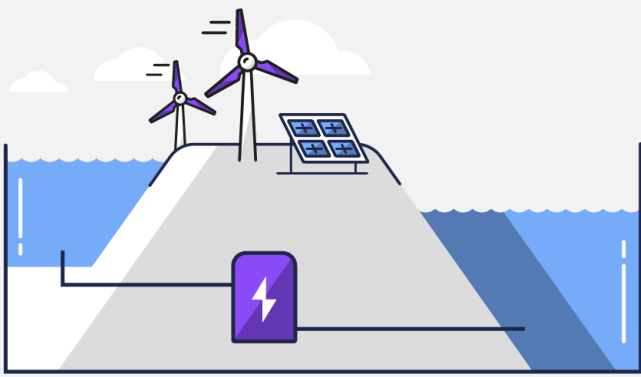




AEA Annual Conference

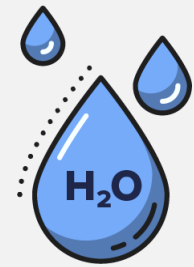
November 2023

The Green Hydrogen Economy is Experiencing Significant Tailwinds

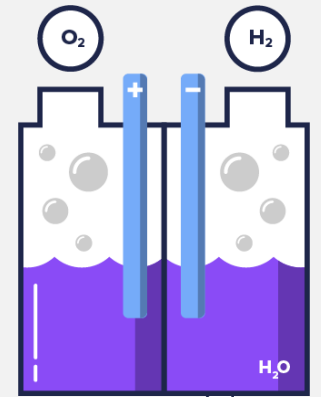


1 **Renewable Energy Generation**
Solar, wind, geothermal, & hydro power to create carbon-free energy

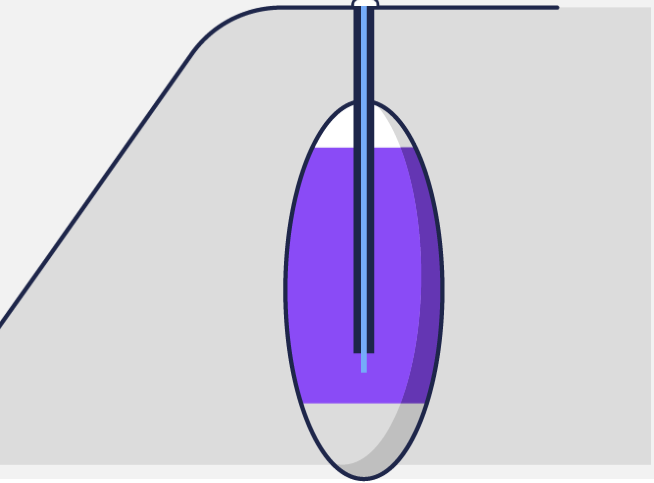
2 **Add water**
This electricity powers an electrolyzer



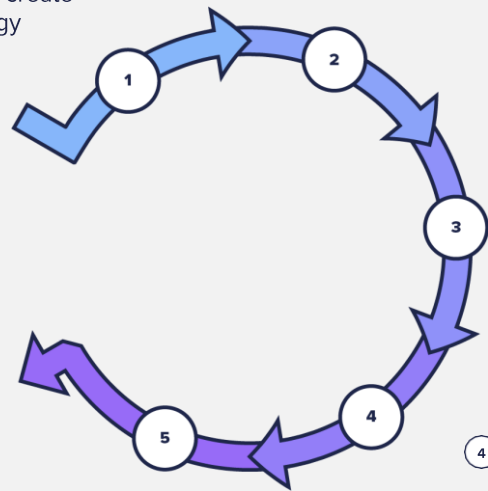
3 **Green hydrogen production**
The electrolyzer splits the water molecule into its two parts – hydrogen and oxygen.



4 **Storage**
The hydrogen gas is compressed and stored underground in salt caverns.



5 **End-Use**
100% renewable energy is available 24/7 for a multitude of end uses



The Mississippi Clean Hydrogen Hub

Why Mississippi?

The geology and geography are uniquely well-suited for salt cavern storage of renewable hydrogen at scale with the technology available today.

FACILITIES

- 1 **Renewable Power Source**
Solar, Wind, Geothermal, Waste Hydropower & Green H₂
- 2 **H₂ and O₂ Renewable Production**
Electrolysis
- 3 **Salt Cavern Storage**
- H₂ Pipeline**
Purpose built Renewable H₂ Dedicated Transport

MARKETS

- A **Heavy Industry**
Steel, Fertilizer Fuel & Plastics
- B **Maritime Transport & Port Operations**
- C **24/7 Power Generation**
Stationary Backup Power & Dispatchable Load Balancing
- D **Datacenters**
- E **Heavy-Duty Transport**
- F **Rail**
- G **Aerospace**
- H **Aviation**
- I **Agriculture**



Hydrogen Storage in Salt Caverns

GEOGRAPHICALLY RARE

TREMENDOUSLY VALUABLE

The only commercial solution today for **seasonal renewable energy storage**.

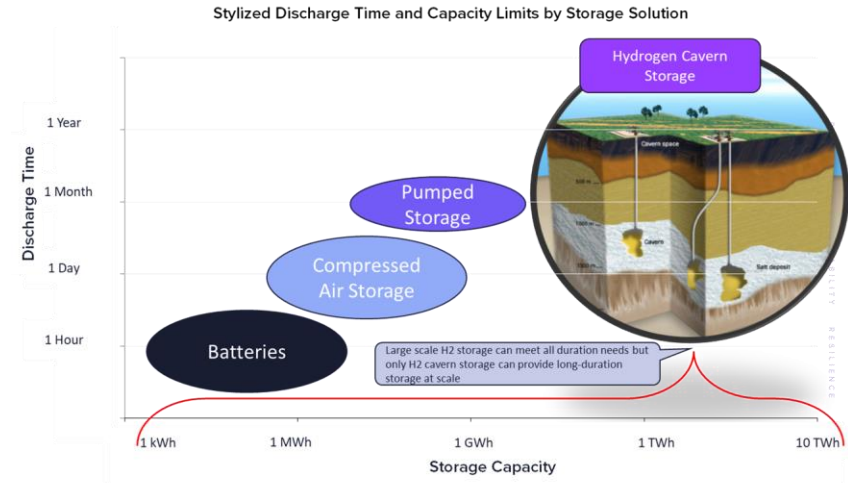
Salt cavern storage is the solution for large-scale and long duration hydrogen storage.

The withdrawal of hydrogen from storage is highly flexible in rate, duration, and volume. Allowing it to dispatch several days, weeks, seasons and years' worth of green hydrogen.

At scale, salt cavern storage is the **lowest per-unit cost solution**.

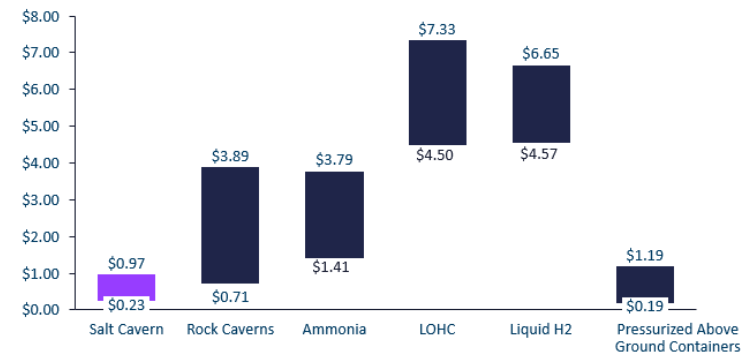
Most cost-effective CAPEX per unit and low OPEX and maintenance.

Limited above ground footprint and reduced visual impact.



Levelized Cost of Storage Estimate
\$/kg H₂

Source: Hydrogen: The Economics of Storage, BNEF 2019



AEA Case Study: The Green Hydrogen Standard

The first ever global green hydrogen standard

A global reference point with a clear quantitative benchmark for green hydrogen for customers, governments, manufacturers and other stakeholders to follow.

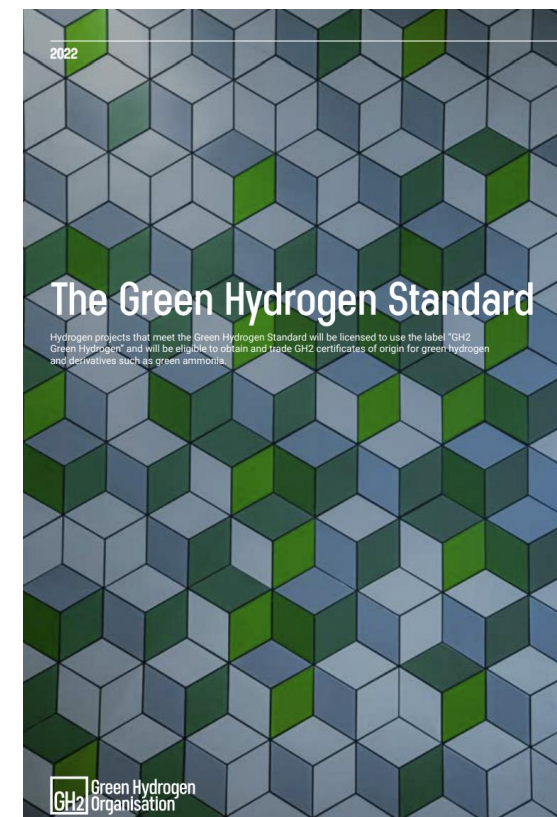
AEA Case Study

Together with AEA we will be undertaking a case study on how the AEA certification system can be used to demonstrate that our green ammonia has been produced in a way that satisfies the Green Hydrogen Standard.

Global Green Hydrogen Definition

Green hydrogen is hydrogen produced through the electrolysis of water with 100% or near 100% renewable energy with close to zero greenhouse gas emissions (≤ 1 kg CO₂ per kg H₂ taken as an average over a 12-month period).

The Standard requires that the ESG aspects of green hydrogen production are addressed such as sustainable land use, water use, and community engagement.



CLARITY TRANSPARENCY CUSTOMER CHOICE



Global Market Reach

HARMONIZATION ACROSS GEOGRAPHIES

HARMONIZATION ACROSS MARKETS



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