

Official Journal of the International Association for Hydrogen Energy. The International Journal of Hydrogen Energy aims to provide a central vehicle for the exchange and dissemination of new ideas, technology developments and research results in the field of Hydrogen Energy between scientists and engineers throughout the world. The emphasis is placed on original research, ...

Without effective, efficient grid-scale storage, hydrogen's huge potential will never happen. The HyDUS solution The HyDUS system makes innovative use of depleted uranium, an unlikely material to feature in the shift to green energy but one that has unexpected and quite remarkable hydrogen storage properties.

Power-to-Hydrogen-to-Power energy storage is one of the most promising energy storage options for long-term storage (weeks to months), where pumped hydro storage is the only mature option today, accounting for 96% of the total energy storage capacity. Moreover, hydrogen, an energy carrier, can be used not only as a means to store renewable ...

As the landscapes of energy and industry undergo significant transformations, the hydrogen economy is on the cusp of sustainable expansion. The prospective hydrogen value chain encompasses production, storage and distribution infrastructure, supporting a broad range of applications, from industrial activities (such as petrochemical refining) to various modes of ...

CIMC Enric started the hydrogen energy business in 2006, and now its products cover various sub-segments including hydrogen storage, distribution and refueling. At the beginning of 2020, CIMC Enric and Hexagon Purus from Norway set up two joint ventures to jointly realize the localization of the type-IV hydrogen cylinder technology which has ...

Geologic Storage. Hydrogen can be stored as a gas underground in empty salt caverns, depleted aquifers, or retired oil and gas fields. In fact, there's a long precedent of storing gasses underground like this. Doing so is called "geologic" storage, and it's an ideal option for storing hydrogen for long periods of time, as is needed for ...

This paper highlights the emergence of green hydrogen as an eco-friendly and renewable energy carrier, offering a promising opportunity for an energy transition toward a more responsible future. Green hydrogen is generated using electricity sourced from renewable sources, minimizing CO2 emissions during its production process. Its advantages include ...

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