

This paper proposes a two-layer, multi-step optimal sizing framework for electric-hydrogen energy storage to address multi-scale energy storage requirements. The first step, the optimal sizing ...

So-called liquid organic hydrogen carriers (LOHCs) offer a solution to the storage and transport problem. But inserting and extracting hydrogen into LOHCs requires catalysts that are often ...

Spain pressing ahead with R& D on emerging energy options, including hydrogen, geothermal With regional interest in nuclear energy rising, Spain must build capabilities too: Tan See ...

Looking ahead, T&V Rheinland will increase investment in multiple cutting-edge fields, such as carbon and sustainable development, hydrogen and fuel cells, new energy vehicles and their supporting facilities, information ...

On July 4, 2025, President Trump signed into law the One Big Beautiful Bill Act (H.R. 1 119th Congress) (OBBBA), which significantly changes the clean energy tax credit landscape established by the Biden administration pursuant to the ...

Green Hydrogen Innovation Centre, an initiative from International Solar Alliance, the mission is to provide a one-stop platform that consolidates and disseminates the latest advancements, insights, and resources related to ...

Trump eases off Russia sanctions - While the EU continues to strangle its own energy future New US Sanctions on Iran Increase Pressure on Iraq To cut water loss & generate renewable ...

METASPACEX, a leading energy sector company, has announced a strategic partnership with Chongqing Bihe New Energy Technology Co., Ltd. (Chongqing Bihe) to enter the hydrogen ...

Hydrogen storage used to be one of those niche industrial topics only a few insiders really paid attention to. But not anymore. Today, it's becoming a powerhouse in the global clean energy ...

Green hydrogen is another frontier. By 2030, China aims to produce over 1 million tonnes annually, with 36,000-tonne storage facilities ensuring a reliable fuel supply. Companies like ...

By combining experimental insights with computational advances, carbon-based hydrogen storage platforms are expected to play a pivotal role in the next generation of energy storage ...

Green Hydrogen, Energy Storage & Solar: The Future of Energy Is Collaborative and Digital We need to

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discuss the importance of collaboration, innovation, and digitalization in driving a ...

While much of the spotlight has been on hydrogen production technologies like electrolysis and blue hydrogen capture, the real game-changer lies in how we store it. The hydrogen energy ...

The new liquid contains up to 6.9% hydrogen by weight, surpassing the hydrogen storage goals set by the U.S. Department of Energy for 2025. This discovery marks the beginning of a new ...

Hydrogen is a promising clean and renewable energy source; however, its efficient storage is one of the key challenges of establishing the sustainable hydrogen economy. The light main group ...

This study investigates Iran's renewable energy options using a hybrid multi-criteria decision-making framework, motivated by the country's urgent need to diversify its heavily fossil-fuel ...

Interest in alkali metals, which are widely used in various fields due to their properties, is steadily increasing. In the case of the most abundant alkali metals in nature, i.e., sodium and ...

Abstract As the incremental deficiency of Li resources, it is significant and instant to supersede Li with other earth-abundant elements for electrochemical energy storage devices. While lithium ...

Researchers have combined the theory of planned behavior, the technology acceptance model, and diffusion of innovations theory to investigate rooftop solar adoption in China. From a 1,200 ...



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