



# Latest news on hydrogen energy storage policy

How efficient is hydrogen storage?

Researchers have explored new approaches and materials to enhance the efficiency and safety of hydrogen storage. With a high energy content of 120 MJ kg<sup>-1</sup>, hydrogen has more energy than most other hydrocarbon fuels and burns faster than gasoline.

What are the challenges associated with hydrogen storage?

However, there are several challenges associated with hydrogen storage, including issues with energy density, heat loss, and safety, which necessitate high-pressure or cryogenic conditions.

Does energy security support clean hydrogen?

While the recent energy policy statements issued by the current U.S. presidential administration have not specifically mentioned hydrogen, optimistically the overarching emphasis on energy security indirectly supports clean hydrogen initiatives.

How has policy changed in the hydrogen industry?

Policy has shifted from funding basic research to supporting full-scale deployment projects such as the H2Hubs, providing financial mechanisms for hydrogen project deployments and branching out to more proactively support global partnerships in the sector.

Will the energy crisis accelerate green hydrogen deployment?

However, in Europe, the energy crisis was also seen as an opportunity to accelerate green hydrogen deployment, although this has yet to materialize (Supplementary Fig. 9). Considering the project announcements for 2024, it remains questionable whether the more than 12 GW currently announced will be realized on time (Supplementary Fig. 6).

How can policymakers close the green hydrogen implementation gap?

To close the green hydrogen implementation gap, policymakers need to bridge the cost gap to fossil fuels and de-risk hydrogen investments. This requires a balanced policy mix and a robust strategy to navigate the following three key uncertainties and risks.

The Biden administration released long-awaited final rules Friday for a tax credit that will send billions of dollars to producers of cleaner hydrogen.

Hydrogen in the EU The European Union (EU) prioritises the development of renewable hydrogen as a key element in its energy transition, net-zero goals, and sustainable ...

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Hydrogen Observatory, the Clean Hydrogen Partnership and ...

About this report The Global Hydrogen Review is an annual publication by the International Energy Agency that tracks hydrogen production and demand worldwide, shedding ...

The issuance of this standard acknowledges the important role of solid hydrogen storage in hydrogen energy storage power stations, opening a new chapter for the application ...

ETN news is the leading magazine which covers latest energy storage news, renewable energy news, latest hydrogen news and much more. This magazine is published by CES in collaboration with IESA.

Under the direction of the national "Guiding Opinions on Promoting Energy Storage Technology and Industry Development" policy, the development of energy storage in China over the past five years has ...

Through power-to-hydrogen conversion, renewable electricity can be easily converted into hydrogen at a large scale for long-term storage, transportation, and energy usage, which ...

Stay updated with the latest hydrogen news today from H2 View. Explore breaking updates, industry trends, and expert insights on hydrogen energy.

Recent advancements in hydrogen storage focus on improving efficiency, safety, and scalability for clean energy applications. A notable development in March 2025 involves a new metal-organic ...

The policy's goal should be to drive the worldwide transition to sustainable hydrogen-based energy systems by offering incentives for research and development of cutting ...

This review paper delves into the advancements in hydrogen (H<sub>2</sub>) storage technology, a key area in the quest for sustainable energy solutions. The paper, aided by artificial intelligence, evaluates these ...

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Effective policy frameworks are critical for hydrogen's growth EU backs Baltic Sea hydrogen pipeline with EUR15.3m funding Germany risks climate, industry goals as hydrogen strategy ...



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Not only does zero-emission hydrogen contribute to sustainability and enable long-duration energy storage, but its reliability, resilience, weather resistance, and transportability make it a critical ...

In this review, we first briefly discuss the advancement of hydrogen energy development. Then, we provide a comprehensive overview of various hydrogen storage ...

A Stanford team aims to improve options for renewable energy storage through work on an emerging technology - liquids for hydrogen storage.

The Global Hydrogen Review is an annual publication by the International Energy Agency that tracks hydrogen production and demand worldwide, as well as progress in critical areas such as ...

Clean hydrogen, Rudman added, "holds incredible potential as California continues its transition from fossil fuels to renewable energy." Critics say that optimism ignores real costs ...

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