

Hydrogen Emerging As a Superior Energy Storage Option Than Batteries, Says Information Trends

Hydrogen Technology Particularly Suitable for Applications That Require the Storage Of Large Amounts of Energy

STERLING, VA, UNITED STATES, June 20, 2025 /EINPresswire.com/ -- Hydrogen is emerging as a superior energy storage option than batteries, according to a [White Paper](#) published by Information Trends, a market research firm tracking hydrogen markets. The White Paper, *Electric Energy vs. Hydrogen Energy*, says that this is primarily due to hydrogen's significantly higher gravimetric energy compared to batteries.

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Hydrogen is also more suitable as an energy source for transportation, particularly buses, trucks, and trains. In addition, hydrogen is ideal for use as a fuel in aviation and maritime transport.

The White Paper says electricity and hydrogen are both potential energy carriers playing a vital role in transitioning away from fossil fuels. Electricity in the form of batteries and the electric grid holds advantages in terms of efficiency, infrastructure availability, and cost.

In terms of storage, the White Paper says that batteries are currently the preferred option for short-term energy storage due to their high efficiency and established technology. However, hydrogen offers a promising solution for long-term and large-scale energy storage.

The cost and efficiency of hydrogen production and storage are continually improving, making it an increasingly viable option for a sustainable energy future. Hydrogen holds promise for specific applications for which storing large amounts of energy or rapid refueling is crucial, like heavy-duty transport,

The White Paper predicts that the future of energy storage will involve a hybrid approach, where batteries handle short-term fluctuations and hydrogen plays a crucial role in seasonal storage and decarbonizing various sectors.

Naqi Jaffery
Information Trends LLC
+1 703-677-5990
naqi@informationtrends.com

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