

## **AES Technology to work on Green Hydrogen Energy Storage Project for California**

The California Energy Commission has selected the Advanced Electrolyser System (AES) technology for hydrogen energy storage. AES will recover hydrogen from waste syngas sources using excess electricity. The first phase, which is a US\$ 1.2 million project, is to validate lower-cost hydrogen production. AES claims to have the technology capable of producing high purity green hydrogen at highly competitive costs, targeting <\$5/kg H<sub>2</sub>.

## **Ballard Power Systems appoints Paul Dobson as SVP & CFO**

Ballard Power Systems has appointed Mr Paul Dobson as Senior Vice-President and Chief Financial Officer replacing Tony Guglielmin, who is retiring after serving as the Company's CFO since 2010.

## **Ballard to supply 6x200kw fuel cell modules to Canadian Pacific hydrogen locomotive program**

Ballard Power Systems to supply fuel cell modules for Canadian Pacific (CP) pioneering Hydrogen Locomotive Program. The modules will provide a total of 1.2 MW of electricity to power the locomotive. Ballard plans to deliver six of its 200 kW fuel cell modules to CP this year. Ballard will provide support to enable the integration of the modules into the locomotive.

## **Defiance ETFs launches first hydrogen ETF listed in the US**

Defiance ETFs launched Next Gen H<sub>2</sub> (\$HDRO), the first hydrogen ETF in the US. Listed on the New York Stock Exchange, giving investors exposure to companies involved in the development of hydrogen-based energy sources and fuel technologies. Defiance ETFs President Paul Dellaquila said, "We believe that as governments and corporations continue to demand renewable energy sources and adopt more environment-friendly policies, Hydrogen will be a pivotal resource to help fuel a cleaner economy."

## **German companies join forces for hydrogen projects funding**

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## **Fusion Fuel and Magnesitas to explore hydrogen for decarbonising mining**

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## Hydrogen economy is making platinum attractive for investors

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## Hystar AS raises more than NOK 50M for its PEM electrolysis technology

Norway's Hystar has raised over NOK 50 million in capital for its PEM electrolysis technology which produces more green hydrogen with less energy. AP Ventures Sintef Ventures and Firdaor were the investors. The technology will target the growing global demand for green hydrogen for industrial, renewable power and mobility applications. The company goal is to develop the Hystar stack and electrolyser package, followed by pilot units with early customers.

## Israeli hydrogen start-up raises \$22M in the third round

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## MVIS launches the BlueStar Hydrogen and NextGen Fuel Cell Index

MV Index Solutions GmbH announced the launch of the BlueStar Hydrogen and NextGen Fuel Cell Index to track the global hydrogen and fuel cell segment's performance. This includes pure-play and non-pure-play companies. Pure-play companies have at least 50% of their revenues from hydrogen and/or fuel cell.

## Teco 2030 unveils plan for fuel cells Giga factory in Norway

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## Versogen , Ionomr Innovations and Air Company are selected to participate in Shell Game Changer Accelerator™ Powered by NREL

Versogen is innovating and producing high-performing hydroxide exchange membranes for a variety of applications, such as lowering the production costs of fuel cells.

Ionomr Innovations is developing ion-exchange membranes and polymers used for electrochemical applications to reduce cost-prohibitive and toxic materials. Applications include green hydrogen production, hydrogen fuel cells and carbon capture and utilisation (CCU).

Air Company is transforming carbon dioxide captured from the air into impurity-free alcohols for spirits, fragrances, sanitisers and a variety of consumer industries, and carbon-negative fuel in the long-term.

## Westport Fuel Systems completes tests on Hydrogen-Fuelled IC Engine

Westport Fuel Systems Inc. completed the initial trials of a heavy-duty internal combustion engine running on hydrogen (H<sub>2</sub>) fuel, using its patented and proprietary High Pressure Direct Injection (HPDI) 2.0™ System. The company said that it could commence running at full torque and rated power within hours of successfully starting the first-ever HPDI engine operating on hydrogen.