

MEDIA RELEASE

Autonomy and decentralisation are the keys to green power supply: "ostermeier H2ydrogen Solutions GmbH" and "Proton Motor Fuel Cell GmbH" power up in the new "Energy Park" of Ulm University of Applied Sciences

| Germany`s unique scientific project is researching the interaction of different sustainable energy systems. |

| Proton Motor's hydrogen fuel cell system "HyModule® S8" has ben integrated into the electrolysis plant of ostermeier H2ydrogen Solutions. |

| Project managers are convinced of the "radiance" for the energy transition through permanent electricity storage. |

Puchheim, Fuerstenfeldbruck and Schweitenkirchen near Munich, August 12, 2024 – Since 2022, the new, now opened and unique in Germany "Energy Park" has been built on the campus of the University of Technology in the science city of Ulm. As part of the "Green Hydrogen Model Region", the project is intended to research the interaction of different sustainable energy systems – the prerequisite for the success of the energy transition. The overarching goal of the research camp, in whose total costs of around EUR 3 million the state of Baden-Wuerttemberg is contributing EUR 2 million in funding, is to answer current questions about technology, environmental and climate issues. In particular, the possible applications and the prospective economic viability of hydrogen and fuel cell technology are to be clarified. As a component of the academic "real-world laboratory", "ostermeier H2ydrogen Solutions GmbH" delivered a containerised electrolysis plant in spring 2024, into which the hydrogen fuel cell system "HyModule® S8" from "Proton Motor Fuel Cell GmbH" has been integrated.

Securing the green power supply with hydrogen from solar energy

The scientists of the research project primarily want to demonstrate how fluctuations in the green power grid can be compensated for with hydrogen in the future. For example, if too little electricity can be produced to cover the energy demand at times. The scenario exists if there is perhaps too little wind for wind turbines or too little sun for photovoltaic systems. In electrolysis, operated by the in-house photovoltaic system on the university roof, it is investigated how hydrogen can be used to secure the power supply, i.e. how the grid-serving mode of operation is to be evaluated. For smaller loads, the fuel cell, and for larger loads, a gas turbine powered by 100 percent hydrogen can help to compensate for grid fluctuations in the function of a kind of emergency power generator. Those responsible at Ulm University of Applied Sciences are convinced of the "radiance" of the Energy Park project for the energy transition. Because electricity is stored permanently. And it is available exactly when it is needed.



United Nations defines energy supply as a Sustainable Development Goal

The storage and conversion of energy is a key element of the future energy supply on the way from fossil fuels to renewable energies. Fuel cell and hydrogen technologies – also in connection with battery storage systems – are assessed as essential building blocks of future energy supply. In many parts of the world, the energy supply is severely limited by power outages or takes place off-grid, without connection to the central power grid. In most locations with such a decentralised energy supply, polluting generators that use fossil fuels such as gasoline and diesel continue to be used to generate energy. With emission-free hydrogen fuel cells, an autonomous, decentralised, stable and sovereign energy supply can be implemented. This can make a decisive contribution to achieving the United Nations' Sustainable Development Goals (SDGs) and the global climate protection goals set out in the Paris Climate Agreement of 2015.

About Proton Motor Fuel Cell GmbH (<https://www.proton-motor.de>):

Since 1998, Proton Motor Fuel Cell GmbH has been Europe's leading expert in climate-neutral energy generation with CLEANTECH innovations and a specialist in this field for emission-free hydrogen fuel cells developed and manufactured in-house. The production focus is on stationary applications such as independent power supply solutions for residential projects and critical infrastructures. In addition, the CO₂-balanced customised or standard and hybrid systems for B-to-B-markets are used for environmentally friendly drive concepts in the maritime, heavy duty and rail segments.

The internationally active technology key player with two company sites near Munich, which currently employs ca. 100 people under the CEO management of Dr Faiz Nahab, is a wholly owned operating subsidiary of "Proton Motor Power Systems plc", based in England. Since October 2006, the parent company's "Green Energy" share has been listed on the London Stock Exchange with simultaneous trading on the Frankfurt/M. Stock Exchange (ticker symbol: "PPS" / WKN: A3DAJ9 / ISIN: GB00BP83GZ24).

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About ostermeier H₂ydrogen Solutions (<https://ohs.energy/>):

ostermeier H₂ydrogen Solutions (OHS) was founded in 2021 by the two brothers and mechanical engineers Dr. Markus Ostermeier and Peter Ostermeier and is headquartered in Schweitenkirchen, north of Munich. The company currently employs 15 people. OHS specialises in complete systems for an autonomous energy supply with hydrogen, develops and produces decentralised long-term storage solutions.

With the modular electrolysis system from OHS, electricity can be converted into hydrogen in a decentralised manner and used on site. In order to make its climate-friendly solutions available to a broad market as quickly as possible, OHS promotes cooperation with various partners for small, medium-sized and large energy solutions. Motto: We EmPower People.

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