

## MEDIA RELEASE

### **Specific storage system secures electricity and heat: New orders for Proton Motor Fuel Cell`s S8 module**

**I Success of South Tyrolean Knappenhaus project increases the demand. I**

**I Third order from the international engineering and aerospace group. I**

**I S8 will also play a central role in a wind turbine plant on the North Sea. I**

***Puchheim near Munich, January 27, 2021*** – The demand for decentralized energy storage systems is currently rising sharply. Stationary solutions based on hydrogen have an advantage over batteries. In July 2019, the high-profile pilot project "Knappenhaus" in Kasern, the most northern mountain village in South Tyrol, was officially inaugurated. It has passed previous wintry challenges with flying colours. Originally conceived 500 years ago as a simple mountain hut at 1,500 metres, the residential property can deposit the "green" and emission-free energy of its in-house watercourse despite seasonal icing respectively on-demand is also possible. The technical installation consists of a water turbine and the fuel cell module S8 of with an 8.4 kW power capacity of "Proton Motor Fuel Cell GmbH" ([www.proton-motor.de](http://www.proton-motor.de)).

After the successful Knappenhaus project, in which the "PM Module S8" was integrated for the first time into a new hydrogen storage system as a combined heat and power plant, Proton Motor delivered two demonstration systems to the large international engineering and aerospace group in 2020. The customer has now ordered four more hydrogen fuel cells for self-sufficient energy production and supply based on renewable energies. Moreover, it has indicated that there may be further follow-up orders to come in the pipeline.

#### ***PM Module S8 for wind model project***

What temperatures mean below zero degrees in the mountains, coastal regions get different wind qualities. A new hydrogen project will test the possibilities of wind energy as a renewable resource using proton engine fuel cells over the next two years. Hydrogen will also be used as a molecular energy storage medium for this project to compensate for natural fluctuations. Because hydrogen is turned into energy again by combustion, it is regarded as the central building block of energy. For this reason, a university from the northern part of Germany has also ordered the "PM Module S8" directly from the Puchheim technology market leader Proton Motor in January. This is to play a central role in the renewable generation of electricity for the CO<sub>2</sub>-neutral hydrogen production and application of a selected wind turbine in the city on the North Sea.

**About Proton Motor Fuel Cell GmbH ([www.proton-motor.de](http://www.proton-motor.de)):**

For more than 20 years, Proton Motor has been Germany's expert in climate-neutral energy generation with cleantech innovations and in this field, it has specialised in emission-free hydrogen fuel cells developed and manufactured in-house. The corporate focus is on stationary applications such as emergency power for critical infrastructures and mobile solutions such as back-to-base applications. In addition, the customised or standard hybrid systems are used in the automotive, maritime and rail sectors. The new automated series production plant was put into operation in September 2019.

In addition to CO<sub>2</sub>-neutral fuel cell solutions, the internationally active technology market leader from Bavaria also offers battery-powered uninterruptible power supply (UPS) via its "SPower" product line. The company, which currently employs almost 100 people under the CEO management of Dr Faiz Nahab, is a wholly owned operating subsidiary of "Proton Motor Power Systems plc", based in Newcastle upon Tyne, England. Since October 2006, the parent company's "green energy" share has been listed on the London Stock Exchange with simultaneous trading in Frankfurt/Main (ticker symbol: "PPS" / WKN: A0LC22 / ISIN: GB00B140Y116).

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