

## MEDIA RELEASE

### **Bavarian Minister of Economic Affairs Aiwanger visited Proton Motor: Presentation of new fuel cell drive system for rail innovation**

**| Minister of State on technology expert: "Proton Motor is an important player in our Bavarian hydrogen economy." |**

**| Integration of emission-free 214 kW multistack into the world's first rail milling train with purely electric drive |**

**| In particular, environmental factors exhaust and noise pollution in the public eye |**

**Puchheim near Munich, July 7, 2021 – Hydrogen as an environmentally friendly energy carrier is also a gain for the railways – and not only in passenger transport. For rail maintenance, exhaust- and noise-free cleantech innovations are in demand. The world's first rail milling train with hydrogen fuel cell drive is based on the quality development of the technology expert "Proton Motor Fuel Cell GmbH" ([www.proton-motor.de](http://www.proton-motor.de)). For the lead project of an Austrian client, the alternative drive solution has been successfully designed and manufactured. In the current context of the (planned for July 2021) delivery of the tailor-made hydrogen fuel cell system with an installed capacity of 214 kW – consisting of two fully redundant systems of 107 kW each – Proton Motor now welcomed Hubert Aiwanger, Deputy Prime Minister and Minister of the Free State of Bavaria for Economic Affairs, Regional Development and Energy, for the official presentation date at the operating site in Puchheim. It was the second company visit to the Bavarian Minister of Economic Affairs for the exchange of information at Proton Motor after the ceremony in 2019 for the official start of the fuel cell series production.**

**During the technical review of the sustainable multistack system, top politician Aiwanger stated to Proton Motor's four-member management with Sebastian Goldner (CTO & COO), Roman Kotlarzewski (Finance Director), Klaus Bury (Business Administration) and Manfred Limbrunner (Director Sales & Marketing): "Bavaria is setting ambitious climate targets and is striving for a consistent energy and mobility transition. I am convinced that hydrogen and fuel cell technologies in particular will make an important contribution to achieve the sector-specific climate protection targets. Especially in heavy-duty traffic with high vehicle weights and necessary ranges, the fuel cell drive has great potential to rapidly advance the decarbonization of the transport sector. Proton Motor Fuel Cell acts as an important player in our Bavarian hydrogen economy thanks to many years of experience in the field of fuel cell development and production. With its innovative Proton Motor technology, the company impressively demonstrates that climate-friendly drive solutions can also be implemented in rail transport."**

### ***Renewable energy supply for CO2 neutrality***

The clean "green" and emission-free fuel cell system from Proton Motor is to be integrated into the world's first special track construction machine with a purely electric drive. In contrast to previous model series with diesel engines, the high-performance milling machine also completely dispenses with hydraulics in the working units. The hydrogen-powered rail world first thus provides an answer to the increasingly strict authorities' regulations regarding environmental factors exhaust and noise pollution. Especially in subway tunnels, the new machine type based on future-oriented renewable energy supply represents an improvement from an ecological point of view in favor of the desired CO2 neutrality. In addition, the health risk of the operating crew in the track benefits from the zero-emission milling concept, in which the dust pollution is eliminated.

#### **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 CO2-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 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: AOLC22 / ISIN: GB00B140Y116).

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