

PRESS RELEASE

Thyrobox DC 3 | Hydrogen Electrolysis | June 02, 2021

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AEG Power Solutions Supplying Power to H-TEC Electrolysers at Haurup Wind Power Site

- 3 Thyrobox DC 3 and a transformer to supply power to electrolysis turnkey solutions from H-TEC SYSTEMS
- Hydrogen plant is built to feed up to three million kilowatt hours from excess wind power as hydrogen annually into the gas network

The Netherlands, June 02, 2021 – AEG Power Solutions, a global provider of power supply systems and solutions for industrial, critical infrastructure and innovative power electronic applications announced that H-TEC SYSTEMS has chosen AEG PS power package solution for the hydrogen production plant built at Haurup in Schleswig-Holstein by the renewable energy company “Energie des Nordens” (EdN).

The project was implemented to optimize local wind energy production. A lot of excess wind power is generated at this grid node. By implementing the electrolyser, every kilowatt produced can be used instead of switching off the wind turbines. The newly developed system with a nominal output of one megawatt is to feed up to three million kilowatt hours from excess wind power as hydrogen annually into the gas network. The plant contributes to the supply of around 20,000 proWindgas customers of Greenpeace Energy, main shareholder of EdN. It is also supporting the stabilization of the grid. The renewable gas can be stored in the existing gas network and converted back into electricity in flexible gas-fired power plants anywhere in Germany, if required.

H-TEC SYSTEMS is equipping the plant with an ME 450/1400 PEM electrolyser.

The company is a technology leader in the manufacturing of PEM (Proton Exchange Membrane) electrolysers for the production of green hydrogen. The company supplies the high-tech electrolysers of the project as a turnkey solution integrated into containers. These compact solutions can be implemented anywhere—directly at wind and solar parks, at filling stations, or in industrial plants.

To supply power to its modular and flexibly deployable electrolysers H-TEC SYSTEMS chose [Thyrobox DC 3](#) systems also for their flexibility and high efficiency.

The Thyrobox DC 3 was designed to provide good power factor and minimized harmonics even at part loads, which contribute to energy efficiency and limited distortions to the grid feeder, and finally reduce the overall cost of operations of such processes as electrolysis.

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“H-TEC SYSTEMS containerized electrolysis process is very innovative and cost efficient”, explains Andreas Becker, Head of Grid & Storage business at AEG Power Solutions. “Our concept of flexible power supply modules matches closely this approach and we are very proud to be part of the project at Haurup which is a very good example of how to optimize wind power generation through green hydrogen production.”

About AEG Power Solutions

AEG Power Solutions ensures continuous power availability and the safe operation of critical applications thanks to with a wide portfolio of power supply systems and services: AC and DC UPS, battery chargers, rectifier systems, service and maintenance on 24/7 basis, as well as fully customized UPS systems to customer specifications.

AEG Power Solutions has developed a distinctive expertise and world-class engineering capacities that bridge both AC and DC power technologies and span conventional and renewable energy platforms. AEG Power Solutions has decades of experience with UPS and power electronics, and grid integration, and is leveraging its conversion expertise to engineer and deliver solutions for energy storage applications.

AEG Power Solutions is the sole subsidiary of the holding company 3W Power.

For more information, visit www.aegps.com.

Photo: H-TEC SYSTEMS

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