

PRESS RELEASE

H-TEC SYSTEMS supplies additional electrolyzers to Grenzland Bürgerenergie eG

H-TEC SYSTEMS is supplying four PEM electrolyzers, Type ME450, with a total volume of 4MW for the "Grenzland Energie Kompakt" project which is being realized by the Grenzland Bürgerenergie eG

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H-TEC Systems is delighted to have the opportunity to renew its collaboration with the Grenzland Bürgerenergie Cooperative. The Schleswig-Holstein "Grenzland Energie Kompakt" project in Westre, North Frisia, near the Danish border, aims to sustainably map the entire hydrogen value chain and create a functioning regional hydrogen market based on green hydrogen. For realization of this project, H-TEC SYSTEMS is delivering four ME450 PEM electrolyzers, with an overall output of 4 MW and a total capacity of max. 1.8 t of hydrogen per day, to the Grenzland Bürgerenergie eG.

The commissioning of the Grenzland Bürgerenergie eG electrolyzers in Westre, planned for the beginning of 2025, will primarily serve to supply logistics companies and service providers with green hydrogen. This is being generated in the municipality of Ellhöft through the integration of existing wind turbines and a 45 MW ground-mounted solar installation. Excess energy from wind and photovoltaics will thus be storable and marketable in the form of green hydrogen.

Furthermore, the heat generated during hydrogen production will also be put to good use: the waste heat can be used, for example, to heat greenhouses in agricultural businesses.

Grenzland Bürgerenergie eG is based in the Renewable Energy Office in Ellhöft. This office already manages five community wind farms, one ground-mounted solar system, one 1 MW hydrogen system (also by H-TEC SYSTEMS) and three transformer substations. The cooperative already operates a hydrogen plant and hydrogen filling station at the Westre location which is supplied by a 225 KW electrolyzer from H-TEC SYSTEMS. Four 1MW electrolyzers are now being added that will soon be installed at the Westre site.

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"With the Grenzland Energie Kompakt project, we are creating a fully functioning hydrogen market in Northern Germany that is both scalable and transferable," explained project initiator, Reinhard Christiansen, Regional Chairman of the State Renewable Energy Association (LEE S-H. e.V.) and Chairman of the Grenzland Energie eG Energy Association. "We are delighted to be working together with H-TEC SYSTEMS on the Westre project after the successful collaboration in Ellhöft and other projects in Schleswig-Holstein."

"The Grenzland Energie Kompakt project is an excellent example of how regional energy supply can be made more sustainable, and it shows the crucial contribution of green hydrogen. We are particularly pleased to be able to contribute to the efficient production of green hydrogen in this additional project with our PEM electrolyzers," said Robin v. Plettenberg, CEO at H-TEC SYSTEMS.



Caption: Members of Grenzland Bürgerenergie eG with Robin von Plettenberg, CEO H-TEC SYSTEMS, during the site inspection for the "Grenzland Energie Kompakt" project, 7.3.2024.



Caption: Discussion of the construction plans for the "Grenzland Energie Kompakt" hydrogen project of Grenzland Bürgerenergie e.G. in Westre: (from left) Robin von Plettenberg, CEO H-TEC Systems, project engineer Marko Bartelsen and the board members of Grenzland Bürgerenergie Reinhard Christiansen, Jörg Steffens and Gabriele Hansen.

About H-TEC SYSTEMS

H-TEC SYSTEMS stands for innovation, sustainability, and a green future. As a technological pioneer, the company develops and manufactures innovative PEM electrolyzers and electrolysis stacks, enabling cost-effective, efficient, and reliable production of green hydrogen. H-TEC SYSTEMS' vision is clearly defined: to use their electrolyzers to avoid 1% of global greenhouse gas emissions, making a significant contribution to climate protection. H-TEC SYSTEMS has been active in the hydrogen industry for over twenty-five years and operates at two locations in Germany and one in Houston, USA. As part of MAN Energy Solutions, the company combines the strengths of an independent, flexible structure with the industrial experience and customer access of MAN ES, along with the expertise in series production and supply chain management of the Volkswagen group and thereby provides the key technology for the Power-to-X value chain.

Further information: www.h-tec.com

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