

PRESS RELEASE

Thyrobox DC 3 | Hydrogen Electrolysis | May 27, 2021

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AEG Power Solutions Equips The Hydrogen Production Process of Swerim Pilot Plant

- 2 Thyrobox DC 3 systems provide power supply to the Hydrogen production plant built by Hydrogen Pro for Swerim
- The facility is part of a complex dedicated to test various industrial hydrogen applications contributing to reduce carbon emissions in metal production

The Netherlands, 27 May, 2021 – AEG Power Solutions, a global provider of power supply systems and solutions for industrial, critical infrastructure and innovative power electronic applications announced **that it provided the power supply systems for the high-pressure electrolysis process of a pilot plant of hydrogen production in Lulea, Sweden. Solution is based on Thyrobox DC 3, industrial high-power DC power supply. The equipment was sold to Hydrogen Pro who built the facility for the metal research institute of Sweden, Swerim.**

Hydrogen Pro is a Norwegian-based company, providing solutions for producing, storing, and distributing hydrogen from renewable energy sources.

The use of hydrogen as a substitute to fossil sources can be of interest for the de-carbonation of many industrial processes, Swerim research institute of the metal industry in Sweden is answering an increasing demand of the industry for trials based on technologies contributing to reduce carbon emissions. The pilot plant integrates its own hydrogen production and will allow, among other projects, to test and assess various industrial hydrogen applications. Potential applications in industry include fossil-free production of steel and other metals, hydrogen-based furnace heating, or production 'raw materials' for the petrochemical industry. The electrolysis process selected by Swerim is HydrogenPro highly efficient alkaline electrolyser with a high level of dynamics.

Electrolysis process demands the highest reliability in terms of power supply. High quality output voltage and high power are a necessity but energy efficiency and limited distortions to the grid feeder are also part of the equation. A good power factor and minimized harmonics contribute to reduce the overall cost of operations in these processes. The Thyrobox DC 3 was designed to provide those benefits. Two systems were acquired by Hydrogen Pro to equip the hydrogen production facility for Swerim, in addition to a transformer and AC distribution. Full grid-compliance and the flexibility of the solution were key to the choice of Thyrobox DC 3.

“Contributing to this pilot plant which will test many diverse applications of hydrogen in the industry opens very exciting perspective for us, explains Andreas Becker, Head of Grid & Storage business at AEG Power Solutions. Being selected by Hydrogen Pro for their cutting-edge technology electrolysers gives us another opportunity to demonstrate the flexibility and the reliability of our Thyrobox DC 3 power supply system for this type of applications”

**For further information,
please contact:**

Claire Pairault
Corporate Communications
AEG Power Solutions

Mobile +33 6 19 60 91 64
E-mail claire.pairault@aegps.com

Andreas Becker
Head of Grid & Storage
AEG Power Solutions

Phone +49 2902 763 231
E-mail andreas.becker@aegps.com

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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: Courtesy of Hydrogen Pro

Hydrogegen Pro Electrolyser at Swerim's facility presented by Richard Espeseth, Founder, Member of Board of Directors and Chief Business Development Officer Hydrogen Pro

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**For further information,
please contact:**

Claire Pairault
Corporate Communications
AEG Power Solutions

Mobile +33 6 19 60 91 64
E-mail claire.pairault@aepps.com

Andreas Becker
Head of Grid & Storage
AEG Power Solutions

Phone +49 2902 763 231
E-mail andreas.becker@aepps.com