

PRESSE RELEASE

Battery Energy Storage | Hydrogen Production | May 4th, 2022

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Visit us at the EES Europe in Munich
from May 11th to 13th: Hall B.2 Stand B2.539

AEG Power Solutions at EES Europe - New power supply solutions for the energy transition

AEG Power Solutions presents its latest storage converters for battery energy storage and process power supply for green hydrogen production.

- New high-voltage version of the successful Convert SC Flex storage converter delivers more power for larger battery energy storage systems
- Direct current supply system Thyrobox DC-3 for green hydrogen production is now also available as a transformer-rectifier unit in a 40-foot container
- Maintenance service Pro Care Safe ETS expanded and now covers both power supply systems for the energy transition
- Expert lecture by AEG Power Solutions in the Green Hydrogen Forum

Zwanenburg – The Netherlands, May 4th, 2022 – AEG Power Solutions (www.aegps.com), a global provider of power supply systems for all kinds of critical and demanding applications, is exhibiting two innovative solutions at EES Europe in Munich (Hall B2., Stand B2.539). The new high-voltage variant of the Convert SC Flex storage converter for battery storage with seamless transition between on-grid and off-grid mode and the Thyrobox DC-3 transformer-rectifier unit which provides a DC power supply for the electrolysis process in green hydrogen production. The company will also be presenting its extended service offer for both systems. AEG Power Solutions' aim is to ensure continuous operation and maximum service life.

High voltage version of the Convert SC Flex

The new high-voltage version of the bi-directional Convert SC Flex storage converter supports even larger battery storage systems of 700 to 1,500 volts. The maximum charging voltage has been increased to 1,450 volts, while the minimum discharge voltage now starts at 700 volts. The system can now provide between 1,000 and 1,300 kVA/kW of power. The maximum inductive and capacitive reactive power is between 400 and 520 kVAR at a nominal AC voltage of 450 to 640 volts. The latest development of the converter ensures a seamless transition between grid-connected and grid-independent operation. This expands its range of uses beyond its core function, as a backup in the event of a power failure.

For more information:

Andre Stumpe
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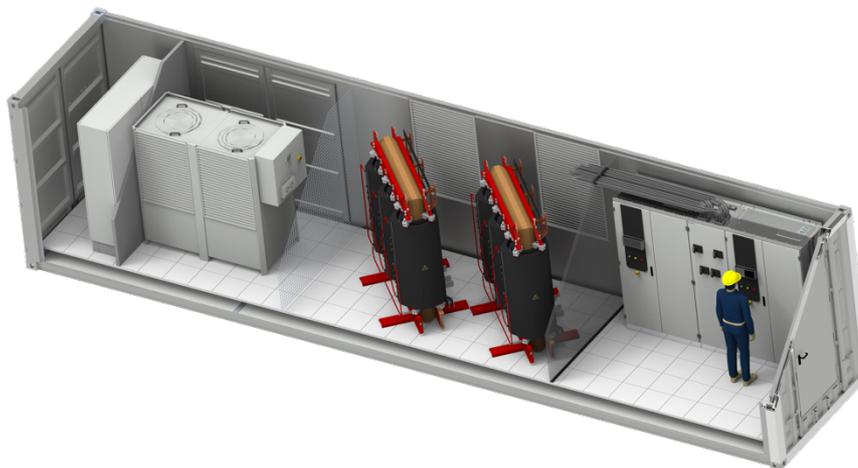
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PRESS RELEASE

Reliable direct current for the production of green hydrogen

AEG Power Solutions has also introduced a new transformer-rectifier container-based unit, designed for the DC powering of hydrogen production applications. The 40ft container houses a Power Frame or Power Block base frame solution consisting of up to eight Thyrobox DC-3 units with a maximum current of 14,400 amps and a transformer. Medium-voltage switchgear, low-voltage distribution and cooling systems are optionally available.

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The Thyrobox DC-3 direct current systems were specially developed to meet the needs of the hydrogen electrolysis process and are based on AEG Power Solutions' years of experience in power supply. Because of their robust build quality, the microprocessor-controlled thyristor/IGBT technology and their modular design, they have already been used worldwide for a significant number of hydrogen projects with different electrolyser technologies. AEG Power Solutions has successfully completed a Thyrobox DC-3 installation as part of a forward-thinking project with the Austrian supermarket chain MPreis, powering a 3.2 megawatt pressurized alkaline electrolyser. MPreis is now able to produce its own hydrogen at its headquarters in Völs near Innsbruck. Particularly when surpluses from renewable energies occur in the Austrian power grid, for example on sunny or windy days, the company uses the surplus electricity to produce hydrogen and stores it in pressure tanks for later use.

AEG Power Solutions supplied eight Thyrobox DC-3 systems to power the hydrogen production. They deliver a high power factor with minimum harmonics, which contribute to the efficiency of the system and the reduction of perturbations in the public power supply network. The high levels of efficiency, even in the partial load range, significantly reduce the overall costs of the electrolysis process (Levelized Costs of Hydrogen; LCoH).

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"Green hydrogen is the fuel of the future," says Jörg Liedloff, Vice President Business Development and New Markets at AEG Power Solutions. "And we are proud to be able to use our expertise to support these and many other innovative projects for the future use of hydrogen."

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Business continuity and longer service life through reliable maintenance

AEG Power Solutions customers can ensure continued operation and an extended service life for the two innovative systems with the Pro Care Safe ETS maintenance contract. Planned, recurring, preventative maintenance by accredited service professionals is the most cost-effective way to maintain full performance. Rapid corrective action is also key to increasing clean energy availability and business continuity for customers involved in the energy transition.

The expertise of AEG Power Solutions is also in demand for the lecture program in the Green Hydrogen Forum. On Wednesday, May 11, at 1 p.m., Senior Sales Manager Marc-André Micke will speak on the topic "Application-based Technology - Review of Hydrogen Production" in Hall B2, Stand B2.550, Room: The smarter E - Green Hydrogen Forum.

Visit AEG Power Solutions at EES Europe from May 11th to 13th at the exhibition centre in Munich: Hall B2., Stand B2.539.

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 the energy transition.

AEG Power Solutions is the sole subsidiary of the holding company 3W Power.
For more information, visit www.aegps.com.

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