

PRESS RELEASE

Convert SC Flex I Battery Energy Storage I August 27, 2020

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Convert SC Flex to Equip the Smart Grid Project of the Sport Center of Békéscsaba in Hungary

- **Békéscsaba SG1 is Hungary's first city-owned smart grid project**
- **Convert SC Flex storage converters chosen again for its off-grid features, Protect PV inverters are also part of the solar plant**

Zwanenburg, The Netherlands, August 27, 2020–, [AEG Power Solutions](#), a global provider of power supply systems and solutions for industrial, critical infrastructure environments and innovative power electronic applications, today announced that Convert SC Flex storage converters were chosen by INFOWARE Zrt. as a core component of the micro-grid system that the company will implement in Békéscsaba, Hungary. The systems were sold through EXTOR, AEG Power Solutions long-time partner in the country.

The smart-grid project of Békéscsaba is part of the “Modern Cities” program of Hungary. The objective is to supply all energy needs of the urban sport center area, which includes today a general-purpose sports hall, a fencing sports hall and parking lots and will be extended further with a second multifunctional sports hall and a competition swimming pool. Geothermal power plants are also part of the project. The sports facilities of the city will then be powered by green energy sources.

INFOWARE will implement the full microgrid. The power will be provided by a 1.3 MWp photovoltaic power plant. The DC voltage produced by the solar cells is connected to the grid via 2 AEG Protect PV 880 inverters at a rated power of 650 kVA each.

The time and quantity differences between the weather-dependent production and the consumption of sports facilities are compensated by a lithium-ion battery energy storage system rated at 1.2 MW power and a capacity of 2.4 MWh. The energy storage system is based on lithium-ion battery modules of 7.61 kWh each, installed in a fire protection rack system.

The batteries are connected to the grid through two Convert SC Flex converters with a power rating of 600 kVA each. AEG PS Convert SC Flex features include grid fault detection and islanding as well as resynchronization once the supply is provided by the public grid again. In the event of any grid failure, the systems switch seamlessly to off-grid operation and supply electricity directly from the solar power plant and energy storage to the sports facilities. Convert SC flex systems make this possible by performing the necessary local network stability tasks. The facilities can continue to operate even in the event of a grid power outage, preventing potential emergency problems. When grid supply is available again, the microgrid is automatically reconnected thanks to the resynchronization process.

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INFOWARE is also providing real-time energy management (EMS) and control system which performs local and remote-control tasks as well as the local smart grid center which collects data further used by the “brain” of the microgrid system allowing to minimize the cost of energy used and optimize the whole installation.
The Békéscsaba SG1 smart grid project will be implemented by the end of 2020.

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“We could be part of this project thanks to our partner in Hungary, EXTOR. It is a great opportunity to further prove on the field Convert SC Flex unique off-grid features, explains Andreas Becker, Head of Grid & Storage inside AEG Power Solutions.”

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.

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