

# PRESS RELEASE

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Page 1 of 2

## **AEG Power Solutions Announces that Convert SC Flex was Chosen by CMI Energy to Equip One of the Battery Energy Storage Systems of its MiRIS Project**

- **Power conversion solution is connected to flow batteries**
- **MiRIS is a very ambitious pilot combining photovoltaic energy generation with battery energy storage**

**Zwanenburg, The Netherlands, March 11, 2019**–, [AEG Power Solutions](#) a global provider of power supply systems and solutions for all types of critical and demanding applications, is supplying power conversion system ([Convert SC Flex](#) and transformer) to [CMI Energy](#) for its MiRIS project.

MiRIS is an ambitious photovoltaic pilot plant combined with energy storage. The installation consists in 6,500 solar panels, (with a peak production capacity of 2 MWp), combined with battery energy storage systems using different technologies, namely two types of flow batteries, one type of Lithium-Ion battery and NaS battery to give, when all the equipments will be in operation, a total of 5.4 megawatt hours. The Energy Management System which monitors the facility was developed by ULiège in collaboration with CMI. The energy produced will be used for the electricity consumption of the headquarters of CMI, or fed into the distribution network in a controlled manner thanks to the intelligent system developed in collaboration with the University of Liège.

The project is set up in Seraing, Belgium, at the headquarters of CMI Energy and has been inaugurated in October 2018. CMI Energy will use this system as a test bench of typical use cases (electricity self-consumption, solar photovoltaic time shift and resale of the exceeding electricity, as well as primary reserve, voltage stability, etc.) in different configurations (off and on-grid) and comparing the storage technologies. Intelligence collected through the tests will give an in-depth understanding of how the different types of battery perform depending on production and usage profiles and ultimately will support the improvement of integrated electricity production/storage/management systems .

The power conversion system provided by AEG Power Solutions consists in a [Convert SC Flex](#) converter and a transformer embedded in an outdoor enclosure. Convert SC Flex bi-directional power converter provides an outstanding conversion efficiency factor for both the charging and discharging phases and offers a wide range of DC input voltage which spans from 330 V to 1000 V. This allows to use the converter with any type of battery technology. In the MiRIS project Convert SC flex is combined with a flow battery storage, proving its capability to provide the initial charging phase that those batteries specifically require. Convert SC Flex will also demonstrate in this configuration that it allows seamless transition between on and off-grid mode.

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## PRESS RELEASE

Page 2 of 2

“MiRIS is a very innovative project and a great field of live experimentation for energy storage, explains Andreas Becker, Product Manager at AEG Power Solutions. We are very excited to be selected as a partner and are looking forward to the first results and all we can learn from this pilot plant.”

CMI is a global power generation equipment supplier and integrator. As a specialist of steam generation for 200 years, CMI Energy has already extended its experience in Concentrated Solar Power with thermal storage and is now engaged in the energy transition with battery storage associated with intermittent renewables sourced energy. Using its global footprint and presence, CMI Energy acts also as an EPC integrator in the Energy Storage Market.

AEG Power Solutions is showcasing its power conversion systems for energy storage at Energy Storage Europe, in Düsseldorf, from March 12 to 14, booth 8b D07. Convert SC Flex will benefit of an extended derating curve 1000 kVA @ 1100 VDC, the new version will be available in the next 6 months.

### **About AEG Power Solutions**

AEG Power Solutions (AEG PS) is a global provider of power electronics systems and solutions for all industrial and demanding commercial power requirements offering one of the most comprehensive product and service portfolios in the area of uninterruptible power supply and power management. Thanks to its distinctive expertise bridging both AC and DC power technologies and spanning the worlds of both conventional and renewable energy, the company creates innovative solutions for next generation distributed power generation.

AEG Power Solutions Group is the sole subsidiary of the holding company 3W Power S.A. based in Luxembourg. The Group is headquartered in Zwanenburg in the Netherlands. For more information, visit [www.aegps.com](http://www.aegps.com).

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