

Electrical Energy Storage trade fair

Socomec in the vanguard of green energy storage

Benfeld, 13 May 2019

Socomec will be exhibiting at the Electrical Energy Storage trade fair in Munich to present its know-how and its stationary and mobile energy storage solutions. The company's recent technological and commercial successes testify to the importance of its offering.

This year again, Socomec, a specialist in the availability, control and safety of electrical installations, will be exhibiting at the Electrical Energy Storage (EES) tradeshow in Munich, alongside other industry professionals. Awarded last year at the same exhibition for its microgrid storage solution integrating the Sunsys PCS²IM converter, Socomec has continued to invest in the development of storage and distribution solutions for electricity produced from renewables.

In 2018 and 2019, the Group continued its research and development efforts through prestigious and demanding partnerships and has successfully implemented its innovations with several customers. It is thus a key player in the ecological transition with regard to the storage of green energy.

Proven technological successes

Socomec has used its know-how in the Nice Smart Valley project to contribute to the successful network splitting on the Lerins Islands last April. The power grid of the Lerins Islands can now be supplied with back-up power stored in lithium batteries. "By simulating a shutdown of the continental grid, supported by batteries and not by diesel generators, the consortium has confirmed the technical feasibility of a clean and industrializable solution for the reliability and regularity of energy supply that is our responsibility," explains Antoine Baveux, Energy Storage Director at Socomec.

Conquering the market

Socomec has been able to build on its technological successes to conquer markets as varied as they are demanding, throughout the world, mainly in the microgrids sector. This is evidenced by the delivery to Senegal of four complete energy storage systems in the form of maritime containers at the beginning of 2019. These containers enable local photovoltaic energy production plants to be optimised to create a complete production and storage installation in a complex environment due to their remote location or difficulty of access. This installation now supplies several villages that did not yet have access to electricity.

In another area, Socomec storage systems now equip Wattbooster's electric vehicle charging stations with the same aim: to produce and consume green electricity locally. As an additional difficulty, Wattbooster has chosen to store this energy in recycled electric vehicle batteries. Batteries have a limited lifetime for electromobility but they can still be used later for other applications. This was a challenge that Socomec successfully met for an even more beneficial result. "These installations, which will gradually complement and reinforce the charging units traditionally connected to the grid, are intended to support the rise in electric mobility in the coming years while reducing the demands on the traditional grid," continues Antoine Baveux.

Mobile storage unit



On the strength of this experience and its investments in R&D, Socomec will be presenting its technology and solutions for all stationary and mobile applications in Munich. On this occasion, a mobile energy storage unit under development will be showcased using a racing-adapted electric vehicle. This is a programme being carried out with the Alsatian racing team Pegasus to better understand the endurance parameters linked to the electric vehicle and prepare for competitions in 2020.

Aside from sports applications, the mobile energy storage station is designed to meet the specific needs of isolated or under-served sites for electricity supply, to reduce the carbon footprint or simply to lower energy costs. The applications targeted are temporary worksites, the events sector, and even humanitarian operations in a disaster area. An application that is already attracting the attention of the UN.

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