

BELECTRIC commissions three storage systems in the UK and Germany based on thousands of automotive batteries

- Large-scale battery storage facilities with a total capacity of more than 40 MW
- New systems use first and second life batteries

Kolitzheim/Dresden (Germany), Slough (UK) – BELECTRIC, the global PV and battery storage specialist, has recently commissioned three new large scale battery storage facilities based on first and second life automotive battery modules from different manufacturers. The facilities are providing frequency response and related system services. BELECTRIC has designed, built, and commissioned the new storage systems with a total capacity of more than 40 MW on behalf of well-known utility and automotive customers.

“Battery modules from the automotive industry offer a number of advantages that make them very suitable for applications requiring high C-rates, a wide temperature range, or specific safety requirements”, explains Tim Müller, BELECTRIC’s Chief Technology Officer. “With our engineering experience and in-house technology, we are well placed to enable the growing number of batteries that come to the end of their life in automotive applications to serve the rising storage needs in the utility industry.”

The latest of the three new battery storage facilities has a capacity of around 22 MW and was recently commissioned in Wales, UK. The [battery storage](#) is tied into an existing wind farm and provides frequency services to National Grid under an Enhanced Frequency Response contract for four years. The second new system was built on the premises of a large-scale car manufacturing plant in Germany, utilising the battery modules that also power electric and hybrid vehicles assembled at the same plant. The [battery storage](#) system with a capacity of roughly 14 MW will provide frequency response services and support the local grid. In Germany BELECTRIC commissioned another storage system based on automotive batteries. The [storage](#) with a capacity of roughly 7 MW enhances the operational capabilities of an existing power station, and also provides frequency response services to the European electricity grid.

The new projects thereby tap into similar revenue streams as the systems built with battery modules for stationary applications that BELECTRIC has been involved in as EPC and O&M provider. BELECTRIC has realised battery storage projects based on different technologies with a total capacity of 100 MW and provides operation and maintenance services for these plants.

BELECTRIC is leading the development of storage technology

BELECTRIC has been building battery and hybrid systems since 2013 in Europe, America, and Africa. In this time, BELECTRIC has gained unrivalled experience in utilising different battery technologies. Initially, systems were based on lead-acid technology. Due to the rapid price decline, the majority of systems are now based on lithium-ion technology, using both stationary and automotive battery modules. For systems up to 20 MWh, BELECTRIC usually tailors the container layout to the specific requirements of the battery modules in its production facilities in Germany. BELECTRIC has also commissioned systems using dedicated battery housing units, which have proven to be more economical for larger projects.

“We are quite proud of the flexibility in terms of technology and software solutions we can offer to our customers”, says Amit Oza, one of BELECTRIC’s sales directors. “We always design our battery storage systems to the respective applications and usage requirements the customer has in mind, while also utilising competitive technologies from our solar PV plants.”

– End of press release –

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BELECTRIC Solar & Battery GmbH

Sarah Knauber, Press, Wadenbrunner Str. 10, 97509 Kolitzheim, Germany

Email: pr@belectric.com Internet: www.belectric.com



About BELECTRIC: *BELECTRIC Solar & Battery GmbH is one of the most successful enterprises in the development and construction of utility scale solar power plants and energy storage systems. The company was established in 2001 and has been expanded to an international group with activities on all continents since then. BELECTRIC has constructed 300 solar PV power plants with around 2 GWp PV capacity. In addition, the company realized battery energy storage systems and hybrid power solutions, which combines different technologies to autarkic systems. As one of the largest O&M providers globally, BELECTRIC's full-integrated services provide continuous operation. State-of-the-art solar power plant technology and energy storage technology support the grid infrastructure and contribute to cost reductions in the energy sector. With numerous patents and innovations, BELECTRIC has proven its technological leadership in the industry.*

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BELECTRIC Solar & Battery GmbH
Sarah Knauber, Press, Wadenbrunner Str. 10, 97509 Koltzheim, Germany
Email: pr@belectric.com Internet: www.belectric.com