



## Press release

Tuesday, February 18, 2014

### BELECTRIC builds state-of-the-art storage power plant in Brandenburg

**Berlin/Kolitzheim:** BELECTRIC GmbH has developed a new storage solution on the megawatt scale specifically for both conventional and solar power plants. As part of the storage initiative launched by Brandenburg's Ministry of Economic Affairs, the pioneering, cost-effective storage system is being tested for the first time under real conditions. The battery storage system is being installed in the existing solar power plant in Alt Daber near Wittstock and has a capacity of nearly 2,000 kWh. This storage capacity would allow about 550 homes to be supplied with electricity overnight.

As we move towards obtaining all our power from renewable energy sources, storage technologies represent one of the biggest challenges. They are needed to cover short- and long-term power requirements, and to guarantee network stability with the increasing use of renewables that are subject to fluctuations. "With this storage system, BELECTRIC is expanding its expertise to cover hybrid power plants and answering the question as to how renewable energies could be more closely integrated in the regulated energy market in future," said Bernhard Beck, CEO of BELECTRIC. "Ground-mounted solar power plants, especially when combined with modern storage technologies, are the vital tool for achieving the energy turnaround in a cost-effective and reliable way. With our 100% German-made energy buffer unit (EBU), we can meet the same standard requirements as the conventional power plants currently do. This means that solar power plants can take the next step towards a totally renewable power supply in Germany, with the difference that a battery storage system can handle significantly higher variations in load than a standard power plant."

BELECTRIC has developed both the storage system and the control and safety system in house. Because it is housed in a standard container, BELECTRIC's EBU makes an easily transportable off-the-shelf solution that is ready for use immediately on site with no costly assembly work required. The battery technology was developed by Exide in partnership with BELECTRIC based on a lead-acid battery and production took place at the works in Bad Lauterberg. The battery has been optimized for use in power plants and boasts a long service life, low cycle costs and high performance. The EBU also uses an innovative charging and reactivation process that can significantly increase the life of lead-acid batteries in stationary applications. When combined with BELECTRIC's own ventilation and cooling system, it can also be used in extreme conditions. BELECTRIC is marketing the product worldwide for hybrid power plants, where a solar power plant is combined with a battery storage system and a diesel-, gas- or hydro-powered unit. This makes for a cost-efficient, stable and sustainable energy supply.

**About BELECTRIC®:** BELECTRIC is one of the most successful international enterprises in the development and construction of ground-mounted solar power plants and roof-mounted photovoltaic systems. As an international company, BELECTRIC is represented in over 20 countries. Its position as technology leader is a result of the high degree of vertical integration in the development and manufacturing processes. The combination of economic and ecological interests has always been the basis for the sustainable success of our 1,750 employees. BELECTRIC demonstrates its great innovative spirit with over 100 active patents. Alongside solar power generation, BELECTRIC Drive® works to develop the interface between photovoltaics and e-mobility. Further information can be found at [www.belectric.com](http://www.belectric.com).

Publication and reproduction free of charge; a specimen copy is requested.

BELECTRIC GmbH  
Florian Dittert, Press Officer  
Wadenbrunner Str. 10  
97509 Kolitzheim, Germany  
Tel.: +49 (0) 9385 9804 -5706, Fax: +49 (0) 9385 9804 -59706  
E-mail: [florian.dittert@belectric.com](mailto:florian.dittert@belectric.com) Website: [www.belectric.com](http://www.belectric.com)