



SMA Solar Technology AG press release

Storage System With SMA Battery Inverters Ensures Electricity Supply Even in the Event of Grid Failure

Niestetal/Bordesholm, May 10, 2019 – By 2020, the municipality of Bordesholm in Schleswig-Holstein, Germany, intends to supply itself exclusively using renewable energies. A ten-megawatt storage system that has now been put into operation provides the primary operating reserve required for this and ensures the supply of electricity in the event of grid failure. SMA Solar Technology AG (SMA) supplied a coordinated system solution for the project which comprises Sunny Central Storage battery inverters and SMA Hybrid Controller and is equipped with new additional stand-alone mode, black start and grid resynchronization functions.

“Our Sunny Central Storage battery inverters are the ideal partners for the ten-megawatt storage system in Bordesholm,” said Mohamed Mostafa, Head of Industrial Storage Solutions at SMA. “The seven powerful Sunny Central Storage inverters and one SMA Hybrid Controller to control the entire system perfectly integrate the storage system into the utility grid. The battery inverters are equipped with the new grid formation and black start functions and can form a stand-alone grid within milliseconds for an uninterrupted electricity supply should the utility grid fail.”

“With the innovative battery inverters from SMA, the 15 MWh battery storage system can provide 10 MWh of primary operating reserve,” explained Dr. Matthias Leuthold, head of the storage business at Renewable Energy Systems Deutschland GmbH (RES). “With their new functions, the Sunny Central Storage battery inverters from SMA enable residents’ supply to be secured even in the event of grid failure. This was one of the most important criteria for our customer, regional utility company Versorgungsbetriebe Bordesholm (VBB). In addition, further services such as black start capability and stand-alone mode can be integrated into the utility grid. Both functions were tested during commissioning and completely met our expectations in terms of planned and unplanned grid disconnection.”

As the proportion of renewable energies used in utility grids increases, large, grid-connected battery storage systems such as that of project developer Renewable Energy Systems (RES) in Bordesholm are becoming ever more important for frequency control. On the one hand, they provide operating reserve for ensuring grid stability and on the other, they can ensure the electricity supply for a region if the main grid fails.



About SMA

As a leading global specialist in photovoltaic system technology, the SMA Group is setting the standards today for the decentralized and renewable energy supply of tomorrow. SMA's portfolio contains a wide range of efficient PV inverters, holistic system solutions for PV systems of all power classes, intelligent energy management systems and battery-storage solutions as well as complete solutions for PV diesel hybrid applications. Digital energy services as well as extensive services up to and including operation and maintenance services for PV power plants round off SMA's range. SMA inverters with a total output of around 75 gigawatts have been installed in more than 190 countries worldwide. SMA's multi-award-winning technology is protected by more than 1,300 patents and utility models. Since 2008, the Group's parent company, SMA Solar Technology AG, has been listed on the Prime Standard of the Frankfurt Stock Exchange (S92) and is listed in the SDAX index.

SMA Solar Technology AG

Sonnenallee 1
34266 Niestetal
Germany

Head of Corporate Communications:

Anja Jasper
Tel. +49 561 9522-2805
Presse@SMA.de

Press Contact:

Susanne Henkel
Manager Corporate Press
Tel. +49 561 9522-1124
Presse@SMA.de

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