

Press release

RWE to deploy SMA technology in the construction of one of Germany's largest and most innovative battery storage facilities

Essen / Niestetal, 22 November 2021

In Germany in Lingen (Lower Saxony) and Werne (North Rhine-Westphalia) RWE is building a battery storage system with a total output of 117 megawatts. The system is scheduled to start operations at the end of 2022. The storage project will provide a range of important system services needed for maintaining grid stability to support fluctuations in the availability of renewable energy. The system technology used for integrating and optimally controlling the charging and discharging of the 420 lithium-ion battery racks of the battery storage system is being supplied by SMA Solar Technology AG (SMA). A total of 47 battery inverters (Sunny Central Storage UP 3450) will be installed.

Once completed, the project will be not only one of the largest storage power plants in Germany but also one of the most innovative, because the battery storage systems will be virtually coupled with RWE's run-of-river power plants along the river Mosel. By raising or decreasing the flow-through at these power stations, RWE can make additional capacity available, also as balancing energy. This coupling process raises the total capacity of the batteries by another good 15 percent.

"Battery storage systems are vital to the success of the energy transition", said Andrea Hu-Bianco, CEO of RWE Battery Solutions GmbH. "They help smooth fluctuations in the utility grid, which are becoming increasingly common with the rise of renewable energies. Our project is setting new standards and demonstrating how we can deliver even greater flexibility to the market thanks to the intelligent connection of battery power with run-of-river power plants. With SMA, we enjoy the support of a highly experienced manufacturer with whom we have been collaborating for many years. Combining this with our market expertise, system knowledge, technical competence and experience in plant operation, we will construct and reliably operate one of Germany's largest and most innovative battery storage systems."

“We are delighted to have the opportunity to contribute our technology and expertise to this groundbreaking project”, said Sebastian Seidl, Head of Project Sales at SMA. “SMA solutions are deployed all over the world – Americas, Europe, Australia – in numerous large-scale and technologically highly sophisticated storage projects. Our customers always benefit from our decades of experience and outstanding system know-how, even when we are faced with entirely new requirements and challenges.”

With an output of up to 3,960 kVA and system voltages of up to 1,500 V DC, the SMA Sunny Central Storage UP allows for more efficient and flexible system design in storage power plants. Thanks to its broad DC voltage range, it is compatible with most battery technologies.

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Note to the editors: Under the following link you will find a project outline and a video on the RWE battery storage system: www.rwe.com/megabattery117plus

RWE

RWE is leading the way to a green energy world. With an extensive investment and growth strategy, the company will expand its powerful, green generation capacity to 50 gigawatts internationally by 2030. RWE is investing €50 billion gross for this purpose in this decade. The portfolio is based on offshore and onshore wind, solar, hydrogen, batteries, biomass and gas. RWE Supply & Trading provides tailored energy solutions for large customers. RWE has locations in the attractive markets of Europe, North America and the Asia-Pacific region. The company is responsibly phasing out nuclear energy and coal. Government-mandated phaseout roadmaps have been defined for both of these energy sources. RWE employs around 19,000 people worldwide and has a clear target: to get to net zero by 2040. On its way there, the company has set itself ambitious targets for all activities that cause greenhouse gas emissions. The Science Based Targets initiative has confirmed that these emission reduction targets are in line with the Paris Agreement. Very much in the spirit of the company's purpose: Our energy for a sustainable life.

SMA

As a leading global specialist in photovoltaic and storage 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 and battery inverters, holistic system solutions for PV and battery-storage systems of all power classes, intelligent energy management systems and charging solutions for electric vehicles and power-to-gas 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 approximately 110 gigawatts have been installed in more than 190 countries worldwide. SMA's multi-award-winning technology is protected by approximately 1,700 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 on the TecDAX index.

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