

Press Release · Pressemitteilung

World's leading wind industry fair to premiere energy storage special exhibition

Key to a successful energy transition: WindEnergy Hamburg will showcase innovative energy storage technologies in a dedicated hall

Hamburg, 16 April 2026 – Grid stability is one of the greatest challenges to the expansion of renewable energy. When wind turbines produce more power than the grid can absorb, they must be curtailed, and the operators receive compensation payments for the lost energy. Nearly 600 million euros were paid to them in Germany in 2024 alone; in UK, operators even received twice as much, a billion pounds. On the other hand, fossil fuel-burning power stations have to go on line during a lull to cover the power demand. Smart energy storage technologies promise to resolve this dilemma.

The new Energy Storage exhibition section, occupying a hall of its own (A2) at WindEnergy Hamburg, will put the spotlight on this subject. On roughly 3,600 square metres of exhibition floor, next-generation technologies such as large-scale battery storage solutions will demonstrate what smart grid control can mean. “We are pleased to provide a focal platform for experts, enterprises and innovators in our new expo section to actively build tomorrow’s energy systems together,” said **Andreas Arnheim**, Director WindEnergy Hamburg.

Enormous growth, plenty of potential

The evolution of the energy storage market has been nothing short of spectacular: Since 2013, global battery capacity has jumped from below 1 GW to more than 155 GW today. In 2024, annual investments in energy storage amounted to around 60 billion US dollars, and the upward trend continues. Experts are estimating that 1,500 GW of energy storage capacity will be needed to back up the expansion of renewable energy envisioned up until the year 2030. For Germany alone, a study by Fraunhofer Institute for Solar Energy Systems (ISE) sets the energy storage capacity requirement by 2030 at 104 gigawatt hours (GWh), four times the amount available at the end of 2025. “A state-of-the-art electricity system must be able to balance supply and demand in real time. We need a policy framework that puts the focus on grids, storage, and the dynamic and flexible interaction of energy supply and demand,” says Federal Environment Minister **Carsten Schneider**.

Concentrated expertise, key industry players

The new expo section at WindEnergy Hamburg addresses this demand, supported by strong partners: The German energy storage industry organisation Bundesverband Energiespeicher Systeme (BVES), VDMA, Europe's largest equipment engineering association, the German wind energy organisation Bundesverband Windenergie (BWE), and Hamburg's Renewable Energy association (EEHH) are jointly organising the conference programme on the Energy Storage Stage in Hall A2 featuring leading experts.

Well-known stakeholders representing various segments of the energy storage value chain have secured exhibition spaces. Among them is China's Sungrow Energy, a specialist in industrial-scale inverter and battery technology. The German vendor Intillion will showcase comprehensive energy storage solutions covering the full project life cycle. Entrix supplies AI-based marketing solutions for operators of battery storage systems. As a global leader in advanced battery and energy management technologies, Leoch Battery from Singapore will be on site, as well. The company's capabilities include battery energy storage systems (BESS) as well as sustainable recycling solutions for a 'greener' future. The modular FlexCombo 2.0 AC Block recently launched by Chinese company Cubenergy is designed specifically for the requirements of the European market. This BESS solution lets energy companies adapt flexibly to changing power demand while supporting scalability-focused projects.

Enormous dimensions, sophisticated technology

The world's first transmission network-integrated BESS ensuring comprehensive grid stability is located in Blackhillock, Scotland. Europe's largest battery storage plant, it serves as a buffer for three expansive offshore wind farms. At a rated power output of 300 MW, it boasts a storage capacity of 600 megawatt hours (MWh). According to the operator, the project avoids over 2.6 million tonnes of CO₂ emissions over 15 years. An even larger installation is the "Gigabattery" the energy company LEAG is planning to erect on a ten-hectare lot in Germany's Lausitz region in Saxony: Its 1,000 MW rated output and 4,000 MWh storage capacity are sufficient to satisfy the energy need of 1.5 million households over four hours. The switchgear needed for grid integration will be supplied by Siemens Energy.

One key element that is crucial for the success of advanced energy storage systems is the smart control of core operating parameters, in particular, the state of charge (SOC), which indicates the amount of stored energy available at any given time. It plays a key role in battery management. "Huawei's Smart String Grid Forming ESS platform takes a holistic approach that integrates several dimensions, from high-precision SOC measurement and smart calibration to optimised balancing and grid-stabilising capabilities," says **Mohammed Qudaih**, Technical Director, Utility Smart PV & ESS Huawei FusionSolar Deutschland. Its powerful SOC algorithm and advanced battery management have earned the Huawei ESS platform the world's highest-level certificate for SOC properties from TÜV Rheinland.

Highlighting the expertise of the participating stakeholders and the innovative potential of its exhibitors, the Energy Storage exhibition section focuses on just the right subjects, says **Claus Ulrich Selbach**, Vice President Exhibitions at Hamburg Messe und Congress. “WindEnergy Hamburg is the leading international trade event for the wind energy sector, and by putting the spotlight on energy storage technologies, we are now covering one of the most pressing issues of the energy transition: efficient storage and use of renewable energy.”

About WindEnergy Hamburg

From 22 to 25 September 2026, WindEnergy Hamburg, the world’s leading wind industry fair, will once again be the pivotal networking hub for experts, companies and investors from around the world: At the exhibition complex of Hamburg Messe und Congress, right in the heart of the famous German port city, more than 1,600 companies from roughly 40 countries will present their innovations and solutions to 43,000 participants from around 100 different nations. Covering more than 80,000 m² of exhibition floor, equipment manufacturers and suppliers representing all stages of the onshore and offshore wind energy value chain will provide a comprehensive market overview. The new Energy Storage expo area, located in a hall of its own (A2) with roughly 3,600 square metres of floor space, will put the spotlight of the flagship fair on energy storage technology. The exhibition will be accompanied by freely accessible conference sessions where top-ranking experts will address the industry's key topics. Featuring more than 300 renowned speakers on six open stages, this free conference programme is organised by the WindEnergy Hamburg team jointly with its partners, including the Global Wind Energy Council (GWEC), the European industry organisation WindEurope, the national industry associations Verband Deutscher Maschinen- und Anlagenbau (VDMA, Europe’s largest engineering association) and Bundesverband WindEnergie (BWE), as well as leading industry media and enterprises. Highlighting its global relevance, WindEnergy Hamburg is pleased to announce a new cooperation project: On 19 and 20 May, the RECHARGE Wind Power Summit Asia-Pacific powered by WindEnergy Hamburg will take place in Singapore.

Opening hours and further information

WindEnergy Hamburg 2026 will open from 10:00am to 06:00pm Tuesday 22 September to Thursday 24 September, and from 10:00am to 04:00pm on Friday 25 September. It is accessible from the entrances at Messeplatz (Centre), St. Petersburger Straße (East), Karolinenstraße (South) und Lagerstraße (West). All visitors and exhibitors in possession of an online ticket will be able to travel to the flagship fair in an especially sustainable manner: Every visitor ticket purchased online includes a ticket to and from the fair on Hamburg’s public transport system.

For more information as well as photos and press releases for downloading, please visit [Join the global on & offshore event - WindEnergy Hamburg](#) or the [LinkedIn](#) or [Instagram](#) channels.

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