Energy storage policy updates south ossetia

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Dubbed the Boudica Project, the BESS will be owned by ?rsted ICENI Energy Storage UK, the storage-focused branch of the Danish energy company and developer. It is a novel project in that the storage system will be co-located with an onshore substation, sharing a connection with an offshore wind power plant. The BESS site and substation are near Norwich in Norfolk.

?rsted currently operates more than 5GW of offshore wind capacity and has an additional 5GW under construction or in development in the UK, including theHornsea 3and Hornsea 4 projects. Inthis year"s Contracts for Difference (CfD) auction round, Hornsea 3 re-bid and was awarded a 1,080MW contract. ?rstedclaims that Hornsea 3, with a 2,400MW capacity, is the largest wind energy plant globally.

The co-located BESS development is the result of three years of collaboration between ?rsted, NESO and National Grid Electricity Transmission (NGET), and was designated a Pathfinder project by the UK government"s Offshore Transmission Network Review (OTNR). OTNR aimed to improve coordination between projects to incorporate increasing amounts of renewable energy coming onto the network.

Bridgit Hartland-Johnson, chief specialist of system integration at ?rsted, called the project a "blueprint for the future", pointing out that similar projects are entering the pipeline "demonstrating that it is a best-in-class solution".

John Twomey, director of customer connections at National Grid Electricity Transmission, said: "Co-locating assets in this way can help maximise the benefits of new renewable generation planning to connect to the electricity network, ensuring excess wind power can be stored and used when needed."

Sharing and reutilising infrastructure reduces capital and operational costs, and combining assets at a single location can create value-added systems. Integrated wind and solar sites yield more stable and manageable power output.

Research by consultancy Cornwall Insight has also espoused the benefits of using a single connection point for multiple assets: hybrid energy hubs (HEHs), where several types of renewable energy generation are co-located and share a single grid connection, can accelerate the connection of renewable generation, reduce the level of investment required and lower the amount of land needed for grid infrastructure, such as substations and transformers.

The Energy Storage Report is now available to download. In it, you"ll find the best of our content from Energy-Storage.news Premium and PV Tech Power, as well as new articles covering deployments, technology, policy and finance in the energy storage market.

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In it, you can read contributed pieces and interviews with leading companies in the sector like Wartsila, Flexgen, Burns & McDonnell, Habitat Energy, Field and Arenko as well as the US Department of Energy (DOE) and Pacific Northwest National Laboratory.

Brussels, 15 October 2024 - The Energy Storage Coalition calls on the European Commission to implement a comprehensive Action Plan on Energy Storage, a crucial step to ensure Europe meets its energy transition goals. As the EU enters a new five-year term, it faces critical challenges in strengthening global competitiveness, securing its energy system, and achieving climate targets. The Energy Storage Coalition emphasises that energy storage is essential to address these challenges, enabling Europe to fully harness renewable energy sources.

Doriana Forleo, Executive Director at the Energy Storage Coalition commented: "The success of the energy transition depends on energy storage and renewables working together. The reform of the Electricity Market Design is a great step forward, but we need clear regulatory guidance and targeted incentives to unlock the full potential of energy storage across the EU."

Walburga Hemetsberger, CEO of SolarPower Europe said: “To integrate solar energy into the grid, we must expand our flexibility resources. Our Mission Solar 2040 study estimates that 1.2TWh of storage will be required to meet solar energy targets and save the system EUR160 billion EUR by 2040. However, we need an EU Energy Storage Action Plan to achieve this!”

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