

Denmark off-grid energy storage

The Danish cleantech company BattMan Energy, which specializes in implementing battery storage systems (BESS), has chosen Hitachi Energy as the battery energy storage system supplier for its three newest plants in Denmark. Some of the country's largest BESS facilities, the plants will have a collective effect of 36 megawatts (MW)/72 megawatt-hours (MWh) and can supply around 6,000 Danish households with power for one day. The first two plants are expected to be ready in June 2025.

The agreement is an important milestone for both parties and supports Hitachi Energy's Purpose of advancing a sustainable energy future for all. BattMan Energy aims to facilitate and execute investments of more than EUR100 million in batteries to stabilize the electricity grid by the end of 2024 and strengthen Denmark's position as a global leader in sustainable energy.

He continues, "Together with Hitachi Energy, we have also begun the co-development of an approximately 500-MW/1.5-gigawatt-hour (GWh) BESS in Denmark, which will be a record-breaking project for us."

Claus Madsen, Country Managing Director of Hitachi Energy in Denmark, sees great potential in the battery plants, and says, "Battery energy storage systems are absolutely central to the clean transition, the stabilization of the grid and are a large part of the future energy system. I am delighted to work with innovative and driven customers like BattMan Energy to support the widespread adoption of such advanced technologies at the edge of the grid."

John Finney, Head of Grid Edge Solutions, adds, "Denmark is a clear leader in the energy transition, with a significant amount of generation coming from renewable sources, and storage added at the grid edge closer to where the power is consumed. As the traditional boundaries of the grid change, more energy management and optimization solutions are also needed. BattMan Energy is tapping into a unique and smart opportunity in the market, and we expect to see more of this type of model in Denmark and throughout Europe."

Hitachi Energy acquired eks Energy, a leading supplier of power electronics and energy management solutions for storage and renewables integration, based in Seville, Spain. The complementary advantages of Hitachi Energy's e-mesh(TM) BESS system integration capabilities, combined with acquired power conversion solutions (PCS) from eks Energy, are also evident in this BattMan Energy project.

BESS developer and operator Dais Energy will reach ready-to-build (RTB) status on 190MW of a 250MW Denmark project portfolio in the coming months, CEO Daniel Connor has told Energy-Storage.news.

Dais has announced a strategic partnership with developer BattMan Energy to develop, build and operator a battery energy storage system (BESS) portfolio in Denmark, which Connor gave us more details on whilst at last week's Energy Storage Summit Central and Eastern Europe (CEE) 2024 in Warsaw, Poland.

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Denmark is aiming for 100% renewable energy by 2050 but has been relatively quiet for large-scale energy storage project news to-date, with 10MWh and 12MWh BESS projects launched this year by Nordic Solar and Better Energy respectively, as well as thermal energy storage pilot projects from Hyme Energy and Kyoto Group.

We asked Connor therefore why Dais had chosen Denmark as a first market of entry and how it would approach commercialising the projects, which will be spread across the country's two electricity zones; DK1, an EU market, and DK2, a Nordic one.

Denmark has strong underlying merchant revenues. There is talk of capacity market (CM) and a few other things but we'd rather get in early, you can always take advantage of those later. The important thing is to get in before many others do, to pick up key grid nodes and build projects in the right places, Connor said.

Without something like the CM you need to find the right counterparty by talking at the right scale. And then you can either take structures that give revenue security on day-ahead markets which are available, and compare the cost of that to going fully merchant with the financiers who are prepared to back that. The latter is not the norm, I suppose, some of those are strategics.

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