Dublin energy storage applications

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Dublin, Ireland - ESB has today opened a major battery plant at its Poolbeg site in Dublin which will add 75MW (150MWh) of fast-acting energy storage to help provide grid stability and deliver more renewables on Ireland"s electricity system.

This latest battery energy storage system (BESS), currently the largest site of its kind in commercial operation in Ireland, is part of ESB"s pipeline of projects which are being delivered at sites in Dublin and Cork - representing an investment of up to EUR300m. These high-capacity batteries can store excess renewable energy for discharge when required, and in doing so, help to support Ireland in reaching its ambitious climate targets by 2030 and ESB in achieving its Net Zero by 2040 strategy.

This plant is located at ESB"s Poolbeg Energy Hub in Dublin where some of the latest technologies that will support the future delivery of renewable energy including batteries, hydrogen and offshore wind will be deployed over the next decade.

The energy storage market in Ireland continues to show strong growth potential. While still in the early stages of site construction, new additions are now providing a strong uptick in activity.

Year-on-year additional capacity built this year remains at a steady rate; 720MWh of energy storage was operational at the end of 2023 and cumulative operational capacity is predicted to reach over 1.7GWh by the end of 2025.

All data and analysis in this article refers to the Republic of Ireland, and comes from our in-house market research at Solar Media, specifically our Republic of Ireland Battery Storage Project Database Report.

With at least 720MWh of energy storage deployed – and 1GWh in construction – the growth of the energy storage market in Ireland has been rapid, considering the first project was only energised in 2020.

In particular, the pipeline increased by over 4GWh in 2023, a growth of 75% compared to 2022. The first half of 2024 shows further promise that this strong growth will continue, with 2.5GWh already submitted and over 1.5GWh of additional storage forecast to be connected to the grid by the end of 2025.

The second quarter of 2024 saw the highest number of applications submitted, at over 2GWh. On an annual basis, 2023 showed a growth of 92% from 2022, compared to a growth of 42% from 2022 to 2021 when comparing capacity in MW.

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