

Large-scale energy storage projects in Northern Europe

What is Europe's largest battery energy storage system?

While these projects boast massive planned capacities, the largest active BESS in Europe is now the first 400 MWh phase of ENGIE's 200 MW /800 MWh system in Vilvoorde, Belgium, which has officially gone live. Sungrow and ENGIE bring Europe's largest battery energy storage system online in Belgium with the completion of its first 400 MWh phase.

What is the European energy storage inventory?

In March 2025, the Commission launched the European Energy Storage Inventory, a real-time dashboard that displays energy storage levels across different European countries. It is the first European-level tool of its kind and offers energy storage data across a full range of technologies.

How many battery energy storage systems were installed in Europe in 2024?

21.9 GWh of battery energy storage systems (BESS) was installed in Europe in 2024, marking the eleventh consecutive year of record breaking installations, and bringing Europe's total battery fleet to 61.1 GWh. However, the annual growth rate slowed down to 15% in 2024, after three consecutive years of doubling newly added capacity.

Is ore energy building Europe's largest Bess?

Netherlands-based iron-air long-duration energy storage (LDES) startup Ore Energy has completed a grid-connected pilot of its 100-hour iron-air LDES system at EDF Lab les Renardières in France. Owner-operator Fidra Energy came out of virtually nowhere to be building one of Europe's largest BESS in the UK, the 1.4GW/3.1GWh Thorpe Marsh project.

This section outlines key EU projects, initiatives, and market trends in energy storage, highlighting efforts to integrate renewables, enhance grid stability, and support the clean energy transition.

By integrating an existing solar park with a 200 MWh battery energy storage system, the project has become the largest solar-plus-storage facility in Northern Europe. The solar park has ...

Discover the largest planned and under-construction battery energy storage projects in Europe as of mid-late 2025.

The European energy landscape is undergoing a profound transformation, spearheaded by the rapid deployment of massive-scale Battery Energy Storage Systems (BESS). Analysis of market ...

Accelerating Northern Europe's transition to a carbon-neutral economy through large-scale renewable energy, storage and Power-to-X projects.

Amsterdam / Neuenkirchen, June 16, 2025 -- GIGA Storage, a Dutch developer and operator of battery energy storage systems (BESS), today announced the acquisition of Project GIGA Albatross, a large ...

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BOS Power and HiTHIUM sign a 3GWh battery energy storage agreement to support renewable projects across the Nordic region, marking a significant step in sustainable energy ...

A busy week of large-scale BESS projects news from the Eastern side of Europe, with projects reaching commissioning, final investment decision, technology procurement and acquisition, ...

Europe's 2025 growth hinges on the large-scale utility battery projects set to come online in the course of the year. The large-scale battery segment is growing rapidly, and for the first time, is ...

The main energy storage method in the EU is by far "pumped storage hydropower", which works by pumping water into reservoirs when there is an electricity surplus in the grid - for example ...

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