

A-Core Container

Europe and the United States need energy storage batteries



Overview

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 the battery storage age just beginning in Europe?

Walburga Hemetsberger, CEO of SolarPower Europe (she/her), said: "If Europe has already entered the solar age, the battery storage age is just beginning. With solar energy mainstreaming across the continent, now is the time for European decisionmakers to put batteries at the centre of a flexible, electrified, energy system.

Why is battery storage so important in Europe?

Markus Elsaesser, the CEO of Solar Promotion GmbH (he/him), said: "Europe's solar success has laid the foundation – now battery storage is stepping into its pivotal role. With solar power surging across the continent, the need for flexible capacity has never been clearer, and batteries are ready to deliver.

How much battery storage will Europe have in 2025?

In the most-likely scenario for 2025, 29.7 GWh of battery storage will be installed in Europe, representing a 36% annual growth. By 2029, the report anticipates a sixfold increase to nearly 120 GWh, driving total capacity to 400 GWh (EU-27: 334 GWh).

Are EVs the future of battery storage?

EVs accounted for over 90% of battery use in the energy sector, with annual volumes hitting a record of more than 750 GWh in 2023 – mostly for passenger cars. Battery storage capacity in the power sector is expanding

rapidly.

How will Europe's battery industry grow in 2025?

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 set to represent most of battery installations on the continent this year.

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