

The latest status of battery energy storage technology in Europe

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.

What is the battery storage Europe platform?

The Battery Storage Europe Platform brings together industry leaders representing the battery storage value chain to advance the business case and regulatory frameworks for battery storage across the EU. Together, we urge a tenfold increase in battery storage by 2030 to ensure Europe's energy transition, security, and competitiveness.

Which countries have the most battery storage in Europe in 2024?

In 2024, Europe's top three battery storage markets - Germany, Italy, UK - solidified their dominance, with Austria and Sweden closing the 'top 5' ranking (see Fig. 2). 2024 marked the first year when reaching the GWh scale of annual installations was required to access the top 5.

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."

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).

How much battery storage capacity does the EU have?

Narrowing the scope to the European Union (EU), 18.5 GWh of BESS were installed across the bloc in 2024, equivalent to 85% of existing installations on the continent. As a consequence, EU total operating battery storage capacity reached 49.1 GWh at the end of 2024.



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