

## Kongres Container

# European and American energy storage lithium batteries



## Overview

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How much battery storage capacity will Europe have in 2023?

According to the latest analysis from SolarPower Europe, Europe added 17.2 GWh of new battery energy storage capacity in 2023, a 94% increase over the previous year, marking the third consecutive year of the market roughly doubling. This brought the total installed battery storage fleet to around 36 GWh by the end of the year.

How many battery energy storage systems did Europe<sup>1</sup> install in 2024?

In 2024, Europe<sup>1</sup> installed 21.9 GWh of battery energy storage systems (BESS), marking the eleventh year of record-breaking annual additions since 2013, when our records began. The latest additions take the total running European battery fleet to 61.1 GWh at the end of 2024.

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.

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 consequence, EU total operating battery storage capacity reached 49.1 GWh at the end of 2024.

How much EV battery does Europe import in 2023?

In 2023, Europe imported batteries worth \$35 billion, and exported a quarter of that amount (Figure 6). Exports primarily go to North American facilities that largely serve the US EV market, while Europe imports cheap batteries from China to fill the domestic demand gap (Figures 7 and 8).

How are battery capacity auctions shaping Europe's storage trajectory?

Capacity auctions, feed-in mechanisms, and targeted subsidies have created more predictable investment environments. In countries like Italy and Spain, new auction schemes are being designed specifically for battery capacity. At the same time, the global supply chain is shaping Europe's storage trajectory.

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