

Western Europe Energy Storage Outdoor Power Store

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 does energy storage work in the EU?

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 on a sunny or windy day - and releasing it when more energy is needed.

Which energy storage technology is the most popular in Europe?

Pumped hydro is the most widely used technology for energy storage in Europe and worldwide, but batteries and hydrogen have come into the spotlight over the last decade as a recent trend in the energy storage market.

Which country has the largest hydro storage capacity in Europe?

Because of water resources availability and tailored energy policies, Germany, Italy, and Spain accounted for the largest pumped hydro storage capacity in the region, ranging between over nine gigawatts in Germany and 5.6 gigawatts in Spain in 2023. Discover all statistics and data on Energy storage in Europe now on [statista.com](https://www.statista.com)!

What percentage of Europe's energy storage capacity is pumped hydro?

However, despite an exponential growth in Europe's battery energy storage capacity, which reached 36 gigawatt-hours in 2023, pumped hydro still accounted for 90 percent of the electricity storage capacity in the European Union that year.

Why is storing energy important?

Storing energy so it can be used later, when and where it's most needed, is key to supporting increased renewable energy production, energy efficiency and energy security. To achieve the EU's climate and energy targets, decarbonise the energy sector and bolster Europe's energy security, our energy system needs to undergo a profound transformation.

Live EU electricity generation map Battery energy storage will be the key to energy transition - find out how The market for battery energy storage is estimated to grow to \$10.84bn in 2026. ...

Apr 1, 2025 · ·The global outdoor energy storage power market is experiencing robust growth, driven by increasing demand for portable power solutions in diverse sectors. The rising ...

