



# European energy storage demand drops sharply

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.

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.

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.

Why is energy storage a growing trend in Germany?

Volatile energy prices and the popularity of photovoltaic self-use have driven demand for residential energy storage, which is expected to continue to grow through 2030. In addition, Germany plans to hold its first capacity market auction in 2028 to boost the development of large-scale energy storage projects.

What is the European energy storage inventory?

The Commission's European Energy Storage Inventory can help address this gap within Europe. Launched in March 2025, it is the first European-level tool of its kind, providing a real-time dashboard of energy storage levels in Europe, offering energy storage data across a full range of technologies.

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)!

While renewable energy sources can't be depleted in the same way as fossil fuels, they are "variable", meaning their availability fluctuates. That's where energy storage ...

Why Europe's Energy Storage Market Is Heating Up (Literally and Figuratively) If you've ever tried charging your phone during a blackout, you know the pain of energy storage gaps. Now, ...



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The European Energy Storage Market Monitor (EMMES) updates the analysis of the European energy storage market (including household storage, industrial storage and pre-metre storage) and forecasts until ...

The demand for electricity will rise by around 31 percent by 2050 (see Figure 2). Power demand increases mainly due to national hydrogen strategies, enhanced electrification in households, ...

That means, amongst other elements, adapting energy transmission and distribution infrastructure, developing generation and demand flexibility, and growing energy storage. In ...

ISSUE 2019 Energy storage systems are an integral part of Germany's Energiewende ('Energy Transition') project. While the demand for energy storage is growing across Europe, Germany ...

Resilience in action: how the European Union's integrated gas system adapted to the energy crisis The European Union's integrated gas system has proven resilient to the crisis, ...

In 2023, Germany became the largest energy storage market in Europe. Overall, the energy storage installation in Europe increased significantly in 2023. According to the European Association for ...

Recent data shows European energy storage demand drops sharply, with Q1 2024 deployments plunging 35% year-over-year. Let's unpack this shocker and explore why the continent that led ...

BloombergNEF's annual Electric Vehicle Outlook (EVO) expects nearly 22 million battery electric and plug-in hybrid vehicle sales this year, up 25% from 2024, as the cost ...

Historically, home batteries have driven the European battery storage market, but 2025 will mark their drop to represent 33% of the market. As the effects of the energy crisis ...

What drivers behind that shift? The invasion of Ukraine by Russia in 2022 and its aftermath exposed Europe's heavy reliance on Russian natural gas imports, making its energy systems vulnerable to ...

Volatile energy prices and the popularity of photovoltaic self-use have driven demand for residential energy storage, which is expected to continue to grow through 2030.

Our commitment to delivering world-class integrated energy storage solutions to our customers is built upon employing cutting-edge renewable energy conversion and best-in-class battery ...

After two years of mild European winters, the 2024/25 season is set to be chillier as La Niña takes hold, bringing with it colder, wetter and stormier conditions across Europe's key gas demand ...

This study investigates the role of different energy storage technologies in a European electricity sector that



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complies with the target of net-zero c...

Note: Required spread for a two-hour battery project assuming revenues cover project costs of EUR360,000/MWh in 2024, for previous years assumes BNEF's Europe energy storage system ...

As energy prices drop towards zero or below, the energy is stored, just like a battery, until energy demand rises again. It means that the low-price generation from renewables is passed back to ...

One of the enduring mysteries of the European gas market landscape has been the relative lack of recovery in industrial gas use following the 2022 global energy crisis.

Technology costs for battery storage continue to drop quickly, largely owing to the rapid scale-up of battery manufacturing for electric vehicles, stimulating deployment in the power sector.

This piece is for anyone sweating over Europe's energy storage slowdown - think policymakers clutching their espresso cups, renewable energy startups sweating ROI, ...

Gas consumption in Europe is expected to increase 17 per cent this month from a year ago, driven by residential and commercial demand, according to a monthly outlook from ...

After two years of mild European winters, the 2024/25 season is set to be chillier as La Niña takes hold, bringing with it colder, wetter and stormier conditions across Europe's key gas demand zones. Despite a third year of ...

AleaSoft Energy Forecasting says lower demand and gas prices, combined with higher wind and solar output, pushed electricity prices down across Europe last week. France, Italy, and Spain also set ...



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