

How do Europe and the United States store energy

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 EU member states have the largest gas storage capacity?

The chart shows the gas storage capacity for each EU member state as at 24 June 2025. The chart shows the gas storage capacity, the amount of gas in storage and the filling level for each EU member state as at 12 February 2025. Germany, France, Italy and the Netherlands are the countries with the largest storage capacities.

Will the European Union rely on imports for its energy needs?

This yields a projected value of 52.9 percent, indicating that under this scenario, the European Union will continue to be reliant on imports for the majority of its energy needs.

What data does Eurostat use?

This note uses Eurostat's 'Simplified Energy Balances' and 'GDP and Main Components' databases for energy and economic data. It calculates the energy import dependency ratio, energy intensity, and primary energy production across 27 EU countries (excluding the UK) from 1990 - 2023.

What is the US energy system?

The energy system is a cornerstone of the United States (US) economy and competitiveness. The country's energy mix in 2022 was well-diversified, consisting of two thirds natural gas and oil, with the rest almost equal proportions of coal, nuclear and renewables.



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