

Battery energy storage installed capacity





Overview

How many GW of battery storage capacity are there in the world?

Strong growth occurred for utility-scale battery projects, behind-the-meter batteries, mini-grids and solar home systems for electricity access, adding a total of 42 GW of battery storage capacity globally.

What is a battery energy storage system (BESS)?

Over the past three years, the Battery Energy Storage System (BESS) market has been the fastest-growing segment of global battery demand. These systems store electricity using batteries, helping stabilize the grid, store renewable energy, and provide backup power. In 2024, the market grew by 52%, compared to 25% growth in the EV battery market.

Will global battery storage capacity increase six-fold by 2030?

The global battery storage capacity must increase six-fold by 2030 – this is the main message of the International Energy Agency's (IEA) Special Report, Batteries and Secure Energy Transitions, published in April.

How important is energy density for EV batteries?

While energy density is of utmost importance for EV batteries, it is less critical for battery storage, leading to a significant shift towards LFP batteries. Strong government support for the rollout of EVs and incentives for battery storage are expanding markets for batteries around the world.



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[New global battery energy storage systems capacity doubles ...](#)

Apr 25, 2024 · Global battery energy storage systems, or BESS, rose 40 GW in 2023, nearly doubling the total increase in capacity observed in the previous year, according to a special ...

Which are the top 20 countries for battery energy storage capacity?

Mar 20, 2025 · What does the current landscape look like? China accounts for approximately two thirds of the installed capacity of grid scale BESS worldwide. It is followed by the US which ...



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[Battery Energy Storage Roadmap](#)

Dec 12, 2024 · This EPRI Battery Energy Storage Roadmap charts a path for advancing deployment of safe, reliable, affordable, and clean battery energy storage systems (BESS) that ...



[U.S. battery capacity increased 66% in 2024](#)

Mar 12, 2025 · In the United States, cumulative utility-scale battery storage capacity exceeded 26 gigawatts (GW) in 2024, according to our January 2025 Preliminary Monthly Electric ...



Nearly 14GWh of grid-scale BESS installed ...

Feb 14, 2025 · There is now 150GW/348GWh of globally installed capacity, according to the database, which focuses on grid-scale battery energy ...



Top 20 Countries by Battery Storage Capacity

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Global energy storage

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