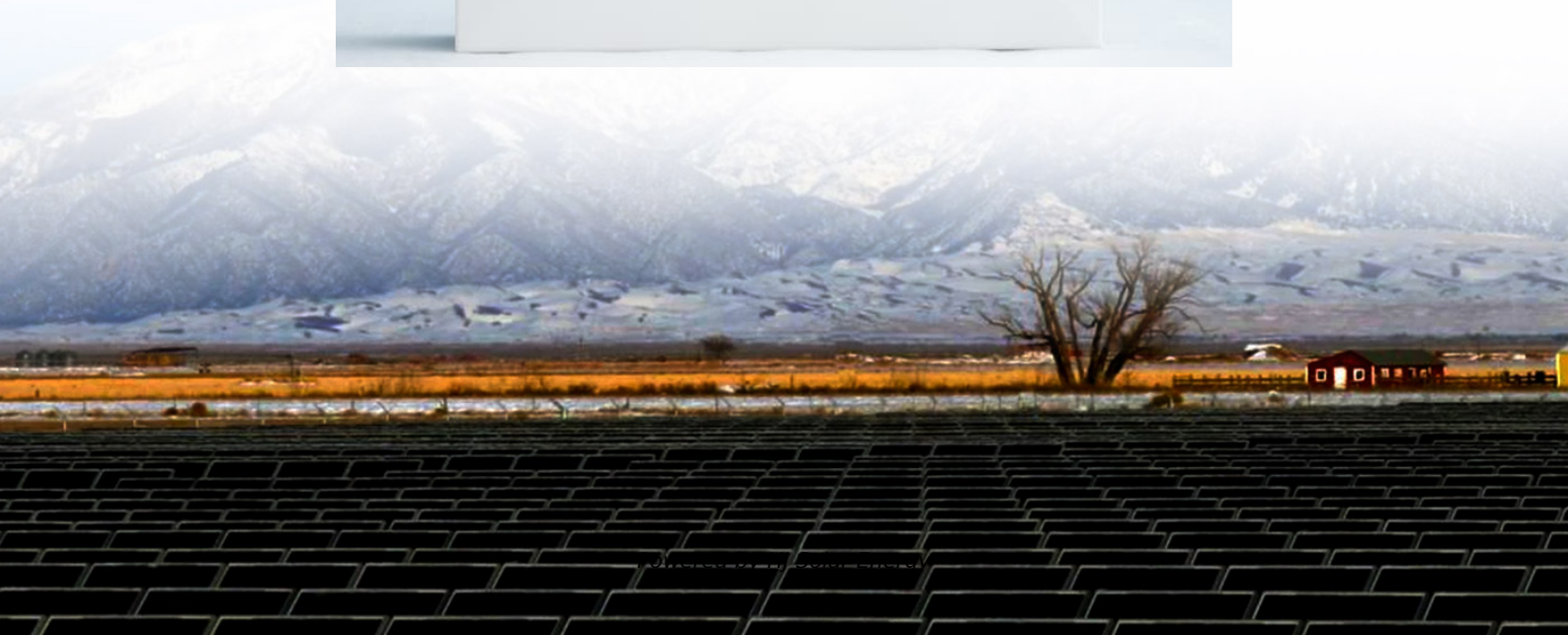


Energy storage installed capacity by country in 2023





Overview

This treemap, created in partnership with the National Public Utilities Council, visualizes which countries had the most grid-scale battery energy storage systems (BESS) in 2023.

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Other storage includes compressed air energy storage, flywheel and thermal storage. Hydrogen electrolyzers are not included. Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency.

Reviewing the energy storage installed capacity in 2023, TrendForce will delve into the global landscape, focusing on two major markets: China and the United States. China: A Remarkable Growth Trend China's growth rate surpassed 100%, showcasing a positive trajectory. Analyzing monthly installed. Which countries will add more energy storage capacity in 2023?

France and Germany launched tenders successively. In 2023, Europe may add 17 GWh of installed energy storage capacity, with 9 GWh in the residential sector. Overall, China, the U.S., and Europe saw installed capacities growing at varying paces in the first half of 2023.

How much energy storage does the world have in 2023?

As of the first half of 2023, the world added 27.3 GWh of installed energy storage capacity on the utility-scale power generation side plus the C&I sector and 7.3 GWh in the residential sector, totaling 34.6 GWh, equaling 80% of the 44 GWh addition last year. Despite a global installation boom, regional markets develop at varying paces.

What will China's energy storage capacity be in 2023?

In 2023, TrendForce anticipates China's energy storage installed capacity to



reach 20 GW/44.2 GWh, marking a year-on-year growth of 177% and 186%, respectively. Although the actual installed capacity in 2023 falls slightly below the initially high expectations, the overall growth rate still exceeds 100%.

Which countries have the most grid-scale battery energy storage systems in 2023?

This treemap, created in partnership with the National Public Utilities Council, visualizes which countries had the most grid-scale battery energy storage systems (BESS) in 2023. China has nearly half the world's grid storage battery capacity and keeps growing at a breakneck pace.

How big will energy storage be in 2024?

Looking ahead to 2024, TrendForce anticipates that the global new installed capacity of energy storage will reach 71 GW/167 GWh, marking a year-on-year growth of 36% and 43%, respectively, and maintaining a high growth rate.

How many energy storage installations are there in 2023?

According to EIA data, new energy storage installations in the United States reached 4.55 GW from January to October 2023. EIA forecasts project an additional 3.8 GW to be installed from November to December, bringing the total for 2023 to 8.35 GW—a year-on-year growth of 102%.



Energy storage installed capacity by country in 2023



[Global Energy Storage Market's Compound Growth ...](#)

According to our calculations, domestic new installed capacity of behind-the-meter energy storage will reach 5.78GW/12.71GWh in 2025, with ...

[Global energy storage market: H1 2024 installation ...](#)

Global energy storage installed capacity grew 93.8% YoY in the first half of 2024, coming in at 64.9 GWh. A total of 57.3 GWh came from utility ...



[Energy storage industry put on fast track in China](#)

The country's installed new-type energy storage capacity had reached 31.39 gigawatts by the end of 2023, of which 22.6 gigawatts were newly installed in that year alone, ...

[BNEF: Energy storage market grew faster than ever in ...](#)

A large-scale battery storage project in China, which is set to remain the world's biggest market by country this decade according to BNEF. ...



[Global Energy Storage Market to Grow 15-Fold by 2030](#)

More ambitious policies in the US and Europe drive a 13% increase in forecast capacity versus previous estimates New York, October 12, ...



Global energy storage

With renewable sources expected to account for the largest share of electricity generation worldwide in the coming decades, energy storage will play a significant role in ...



New global battery energy storage systems capacity doubles in 2023...

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 report published by ...





Renewable capacity statistics 2023

For most countries and technologies, the data reflects the capacity installed and connected at the end of the calendar year. Data has been obtained from a variety of sources, including an ...

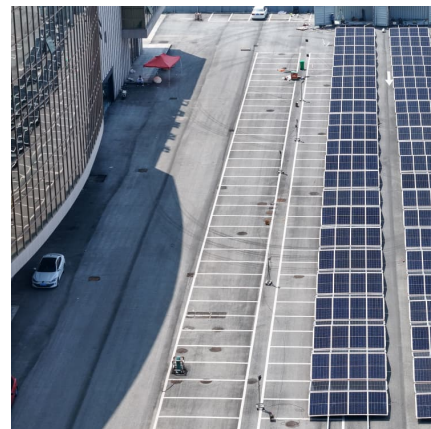


[Global Energy Storage Market Outlook](#)

Energy storage capacity additions will have another record year in 2023 as policy and market fundamentals continue to propel the industry Data compiled March 2023. Source: S& P Global ...

Global Energy Storage Market's Compound Growth Rate From ...

According to our calculations, domestic new installed capacity of behind-the-meter energy storage will reach 5.78GW/12.71GWh in 2025, with a compound annual growth ...



[2H 2023 Energy Storage Market Outlook](#)

Projects delayed due to higher-than-expected storage costs are finally coming online in California and the Southwest. Market reforms in Chile's capacity market could pave ...



Visualized: Countries by Grid Storage Battery Capacity in 2023

This treemap, created in partnership with the National Public Utilities Council, visualizes which countries had the most grid-scale battery energy storage systems (BESS) in ...

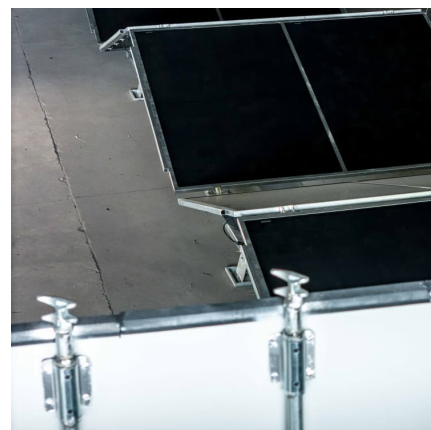


[Executive summary - Renewables 2023 - Analysis](#)

In 2023, an estimated 96% of newly installed, utility-scale solar PV and onshore wind capacity had lower generation costs than new coal and natural gas ...

Anticipating a Surge: Global New Installations in 2024 ...

From 2021 to 2023, the global energy storage installation base remained at a low ebb, but with burgeoning market demand, annual installed ...





Country Rankings

This dashboard ranks countries/areas to their renewable energy power capacity or electricity generation. The data can be further refined based on region, technology or year of interest. ...

[CNESA Global Energy Storage Market Tracking](#)

China market: Pumped Hydro Storage share falls below 50% for the first time. Non-hydro Storage accumulative installations surpass 50GW for the first time. According to ...



Energy storage market grew faster than ever in 2023, BESS was ...

According to the International Energy Agency (IEA) and BloombergNEF, battery storage was the most invested-in energy technology in 2023 with the biggest-ever annual ...

[Battery storage capacity target by country. Statista](#)

In 2024, India accounted for the most ambitious battery storage targets worldwide, planning to achieve a battery storage capacity of over 47 ...



[Global energy storage market: review and outlook](#)

The global energy storage market added 175.4 GWh of installed capacity in 2024, with the three major regional markets--China, the Americas, and Europe--continuing to ...



[Executive summary - Batteries and Secure Energy ...](#)

Battery storage in the power sector was the fastest growing energy technology in 2023 that was commercially available, with deployment more than doubling ...



Global energy storage market: H1 2024 installation figures

Global energy storage installed capacity grew 93.8% YoY in the first half of 2024, coming in at 64.9 GWh. A total of 57.3 GWh came from utility-scale storage (including ...





[Global Hydropower Capacity Reaches 1412GW in ...](#)

Installed hydropower capacity In 2023, China, Brazil, the US, Canada, and Russia were the top countries for installed hydropower capacity, ...

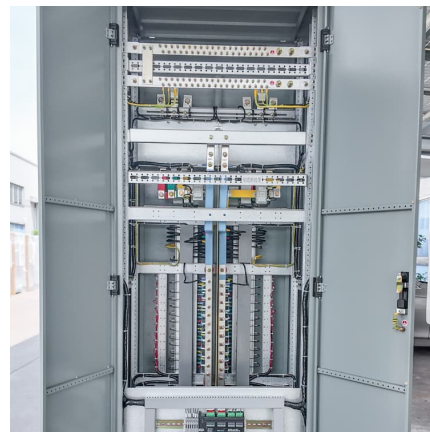


Electricity installed capacity, by source. Data by Countries from ...

Official statistics by year of electricity installed capacity, by source (GW). The values are presented in tables and charts with calculations of changes and shares, and with extensive ...

[Summary of Global Energy Storage Market Tracking ...](#)

According to incomplete statistics from CNESA DataLink Global Energy Storage Database, by the end of June 2023, the cumulative installed ...



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