

Lithium battery energy storage installed capacity ranking





Overview

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In 2024, the market grew 52% compared to 25% market growth for EV battery demand according to Rho Motion's EV and BESS databases. As with the EV market, China currently dominates global grid deployments of BESS, but in coming years other markets will grow significantly, fuelled by low-cost.

This graphic highlights the top 20 BESS markets by current and planned grid capacity in gigawatt hour (GWh), based on exclusive data from Rho Motion as of February 2025. As with the EV market, China currently dominates global BESS deployments, accounting for approximately two-thirds of installed.

Advances in lithium-ion battery technology, government incentives, and declining costs are accelerating this expansion. According to rho motion, here are the top 10 countries leading the charge in battery energy storage systems
1. China - 215.5 GWh China remains the undisputed leader in BESS.

With countries racing to meet net-zero goals and renewables like solar and wind needing reliable backup, energy storage installed capacity has become the ultimate bragging right in global climate diplomacy. Think of it as the World Cup for nerds who care about megawatts and lithium-ion batteries. What is the lithium-ion battery market database?

Database contains the global lithium-ion battery market supply and demand analysis, focusing on the cell segment in the ESS sector. We compile detailed data on various businesses' capacity, production, and shipments, as well as segmenting the market applications such as FTM, BTM-C&I, and BTM-Residential.



Is Australia a good place to invest in lithium-ion batteries?

Australia is home to some of the world's largest lithium-ion battery projects, and its ambitious energy transition policies are ensuring rapid growth in the sector. 5.

Which country has the most battery-based energy storage projects in 2022?

Industry-specific and extensively researched technical data (partially from exclusive partnerships). A paid subscription is required for full access. The United States was the leading country for battery-based energy storage projects in 2022, with approximately eight gigawatts of installed capacity as of that year.

Which countries are leading the lithium-ion battery market?

China and the United States lead the market with vast installed capacities and ambitious expansion plans, while Australia, Saudi Arabia, and Chile are seeing rapid growth. Advances in lithium-ion battery technology, government incentives, and declining costs are accelerating this expansion.

What are the future markets for lithium ion cells?

However, other markets are expected to grow significantly in the coming years, driven by low-cost lithium-ion cells and the expansion of renewable energy capacity. Currently, China has 215.5 GWh of installed capacity and an ambitious 505.6 GWh project pipeline. The U.S. follows with 82.1 GWh installed and 162.5 GWh planned.

What is the fastest growing segment of battery demand?

Over the past three years, the BESS market has been the fastest-growing segment of battery demand, surpassing even the electric vehicle (EV) sector. Several countries are investing heavily in large-scale energy storage to support clean energy ambitions and improve energy security.



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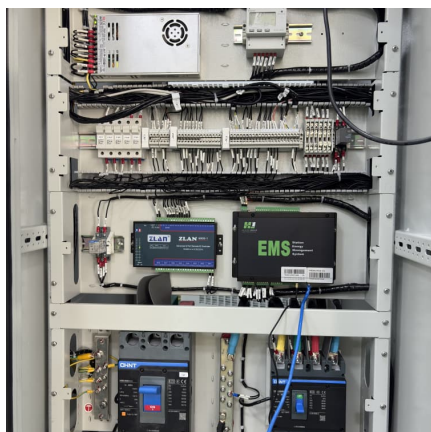
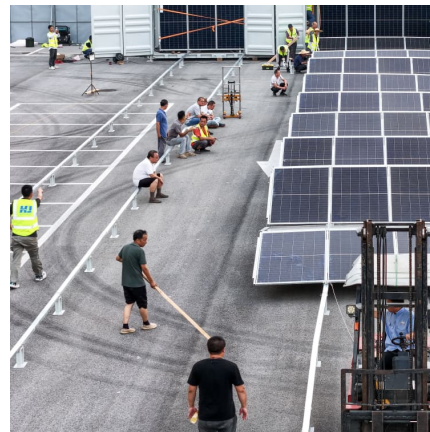


Ranking of Global Companies by Power Battery Installed Capacity ...

The global market's installed capacity of power batteries for electric vehicles was approximately 434.4 GWh, a year-on-year increase of 22.4%.

World's energy storage capacity forecast to exceed a terawatt ...

In BloombergNEF's 2H 2023 Energy Storage Market Outlook report, the firm forecasts that global cumulative capacity will reach 1,877GWh capacity to 650GW output by ...



[November global power battery list: BYD surpasses](#)

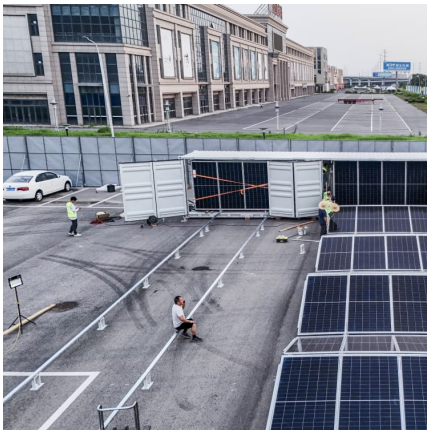
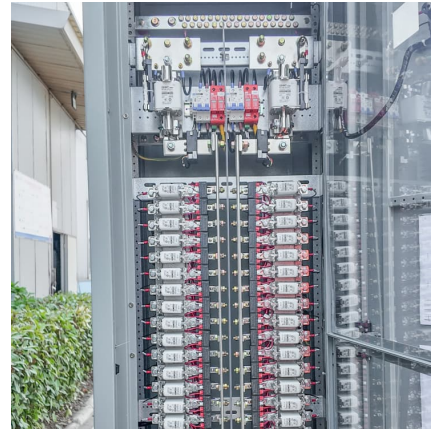
The installed capacity of China Chuangxin Airlines (formerly known as AVIC Lithium) was 0.8GWh, an increase of 33.3% month-on-month, and its market share reached 2.4%, ranking ...

Global ranking of lithium energy storage in various countries

Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency. Explore the energy



system by ...

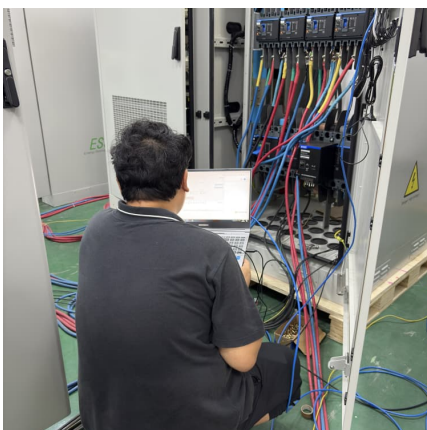


Energy-storage cell shipment ranking: Top five dominates still

As for small-scale energy storage projects, CATL, REPT, EVE Energy, BYD, and Great Power shipped the most. The top 5 list remained unchanged in the first three quarters of ...

2022 Global Battery Installed Rankings CATL & BYD Over 50%

2022 Power battery installed rankings top 10: CATL, BYD, LG New Energy, Panasonic, SK On, Samsung SDI, CALB, Guoxuan High-Tech, SUNWODA, Farasis. The total ...



Battery manufacturing capacity by country 2023, Statista

of the region's battery capacity. Battery storage companies worldwide The major battery energy storage companies are headquartered in China and the U.S., the leading ...



United States energy storage industry

The energy storage sector in the United States has been thriving in the past years, with several applications to improve the performance of the electricity grid, from ...



Global energy storage cell, system shipment ranking 1H24

According to InfoLink's global lithium-ion battery supply chain database, energy storage cell shipment reached 114.5 GWh in the first half of 2024, of which 101.9 GWh going to ...

THE CHINA BATTERY ENERGY STORAGE SYSTEM

BESS types include those that use lead-acid batteries, lithium-ion batteries, flow batteries, high-temperature batteries and zinc batteries. he integration of demand- and supply-side ...



2025 Energy Storage Installed Capacity Ranking: Who's Leading ...

With countries racing to meet net-zero goals and renewables like solar and wind needing reliable backup, energy storage installed capacity has become the ultimate bragging ...



[The installed capacity of battery energy storage](#)

...

The energy storage systems owned by Europe at that time were mainly pumped storage power generation facilities, with a total installed ...



[U.S. battery storage capacity expected to nearly](#)

...

The rapid growth of variable solar and wind capacity in states such as California and Texas supports growth in battery storage, which works ...

[Which are the top 20 countries for battery energy](#)

...

According to Rho Motion's BESS database as of February 2025, by 2027 the top 20 countries' deployed BESS grid capacity will have grown by ...

...





[Global Energy Storage Market Records Biggest Jump ...](#)

The growth in LFP's market share is made possible by a scale-up in manufacturing capacity led by Chinese battery makers. Battery makers ...

[China targets 180GW of installed BESS capacity by 2027](#)

11 ????. The policy and regulatory roadmap is aimed at pushing China's installed base of large-scale energy storage - primarily lithium-ion battery energy storage systems (BESS) - to ...



[China's battery storage capacity doubles in 2024](#)

China's electrochemical energy storage industry saw explosive growth in 2024, with total installed capacity more than doubling year-on-year, ...

[InfoLink: 222 GWh more energy storage worldwide in ...](#)

The global energy storage market had installed 175.4 GWh of capacity by 2024, with Tesla leading shipments. Europe accounted for 19.1 ...



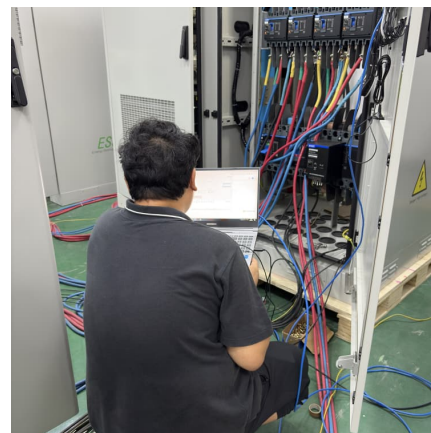
New report: European battery storage grows 15% in 2024, EU energy



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 ...

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

However, companies are already scaling up operations to capture the upside." Rapidly evolving battery technology is driving the energy storage market. Lithium-ion batteries ...



Top 10 Global Power & Storage Battery Manufacturers 2024

CATL leads with 491GWh as China dominates 2024's 1.3TWh global battery shipments. See rankings, growth trends, and key players in power & energy storage.

The development of China's new energy storage industry in 2024

Among them, the new installed capacity of new energy storage is about 21.3GW, which was 3.6 times the new installed capacity of new energy storage in 2022, accounting for ...





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