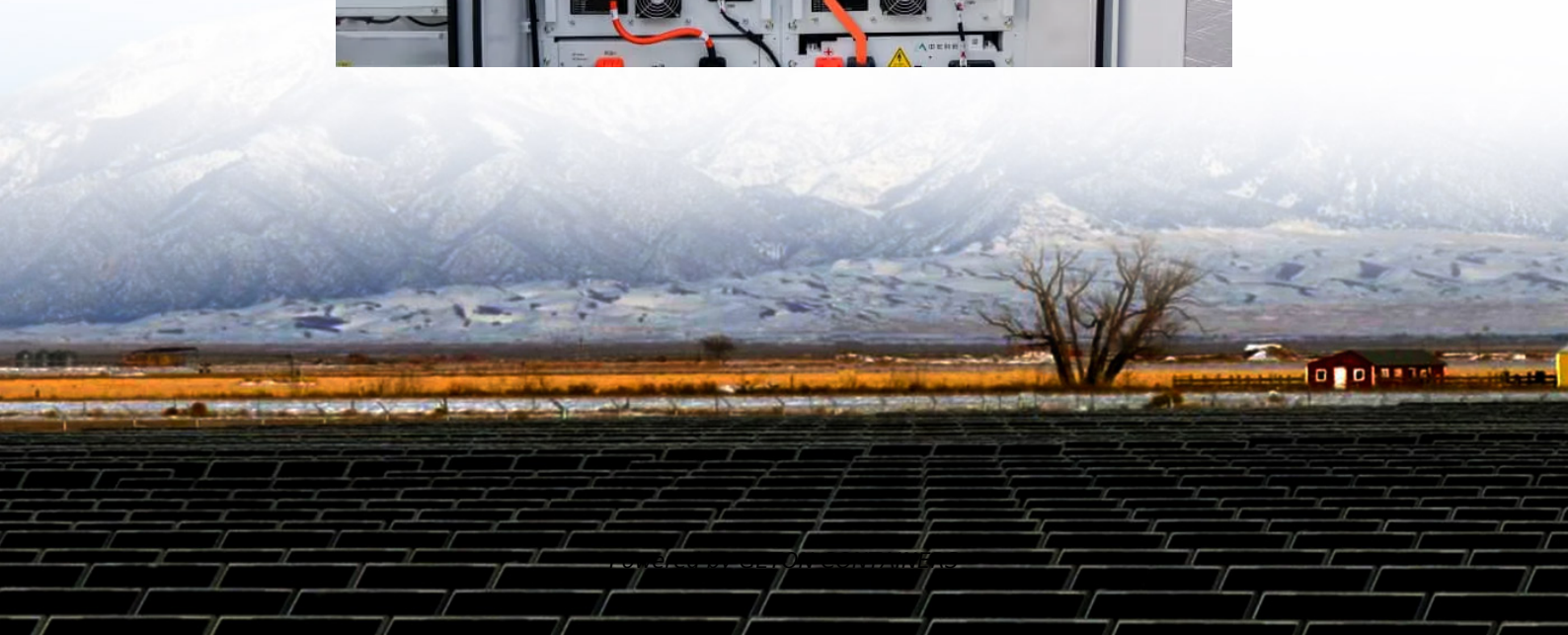


Direct sales of energy storage batteries





Overview

Why is battery storage important?

Battery storage has many uses in power systems: it provides short-term energy shifting, delivers ancillary services, alleviates grid congestion and provides a means to expand access to electricity. Governments are boosting policy support for battery storage with more targets, financial subsidies and reforms to improve market access.

How many batteries are used in the energy sector in 2023?

The total volume of batteries used in the energy sector was over 2 400 gigawatt-hours (GWh) in 2023, a fourfold increase from 2020. In the past five years, over 2 000 GWh of lithium-ion battery capacity has been added worldwide, powering 40 million electric vehicles and thousands of battery storage projects.

Are EVs the future of battery storage?

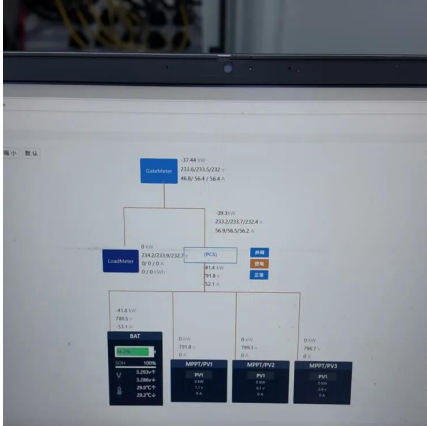
EVs accounted for over 90% of battery use in the energy sector, with annual volumes hitting a record of more than 750 GWh in 2023 – mostly for passenger cars. Battery storage capacity in the power sector is expanding rapidly.

Who makes battery chemistry?

Most major battery makers, such as Contemporary Amperex Technology Co. Ltd. (CATL), BYD, EVE Energy, CALB and Hithium, develop products specifically for the energy storage market, driving a continued deviation from the electric-vehicle chemistry mix, which features a larger proportion of nickel-based lithium-ion battery chemistries.



Direct sales of energy storage batteries



Tesla's new Shanghai Megafactory starts exporting energy-storage batteries

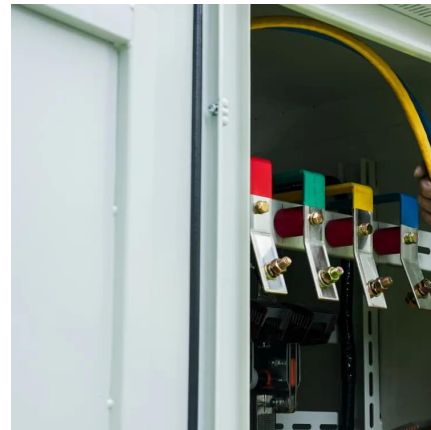
Megapack is an electrochemical energy storage device that uses lithium batteries -- a dominant technical route in the new-type energy storage industry.

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congestion and provides a means to expand ...

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The global energy storage market is poised to hit new heights yet again in 2025. Despite policy changes and uncertainty in the world's two largest markets, the US and China, ...

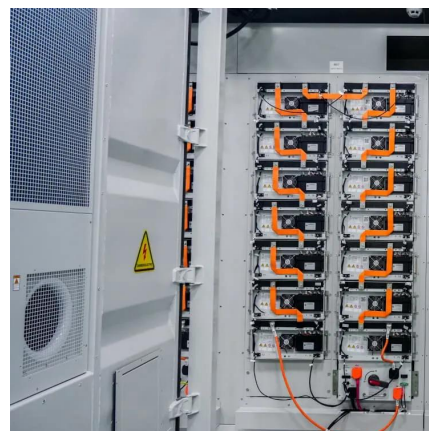
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'Unrecognizably' Cheap Batteries Turn Solar Into an 'Anytime' Energy

Energy storage prices have now fallen for two years running, with costs now low enough to make dispatchable, round-the-clock solar generation financially viable, finds a new ...

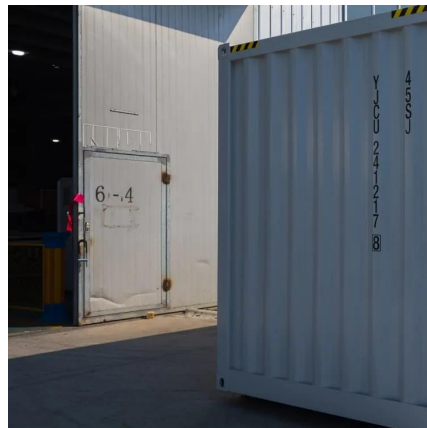
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Analysis finds "anytime electricity" from solar available as battery

A report from energy think tank Ember details how cost reductions in battery storage technology are enabling dispatchable solar power to compete with conventional power ...

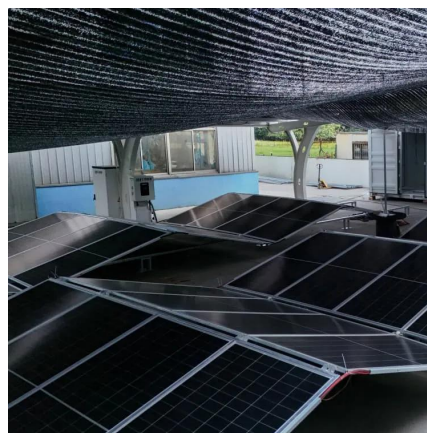
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