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Are battery energy-storage technologies necessary for grid-scale energy storage?

The rise in renewable energy utilization is increasing demand for battery energy-storage technologies (BESTs). BESTs based on lithium-ion batteries are being developed and deployed. However, this technology alone does not meet all the requirements for grid-scale energy storage.

How many GW of battery storage will be installed in 2023?

The deployment of BESTs has increased dramatically over the last decade, with global installed battery storage power capacity rising from about 1 GW in 2013 to over 85 GW in 2023. Over 40 GW of this storage was added in 2023 alone, double the amount installed in 2022 (ref. 14).

What are the major energy storage services for electricity generation?

Major energy-storage services for electricity generation include renewables integration, black start, peak shaving, long-duration energy storage and seasonal energy storage (Figs. 1b and 3). In renewables integration, BESTs are used to store renewable energy.

What types of battery technologies are being developed for grid-scale energy storage?

In this Review, we describe BESTs being developed for grid-scale energy storage, including high-energy, aqueous, redox flow, high-temperature and gas batteries. Battery technologies support various power system services, including providing grid support services and preventing curtailment.

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