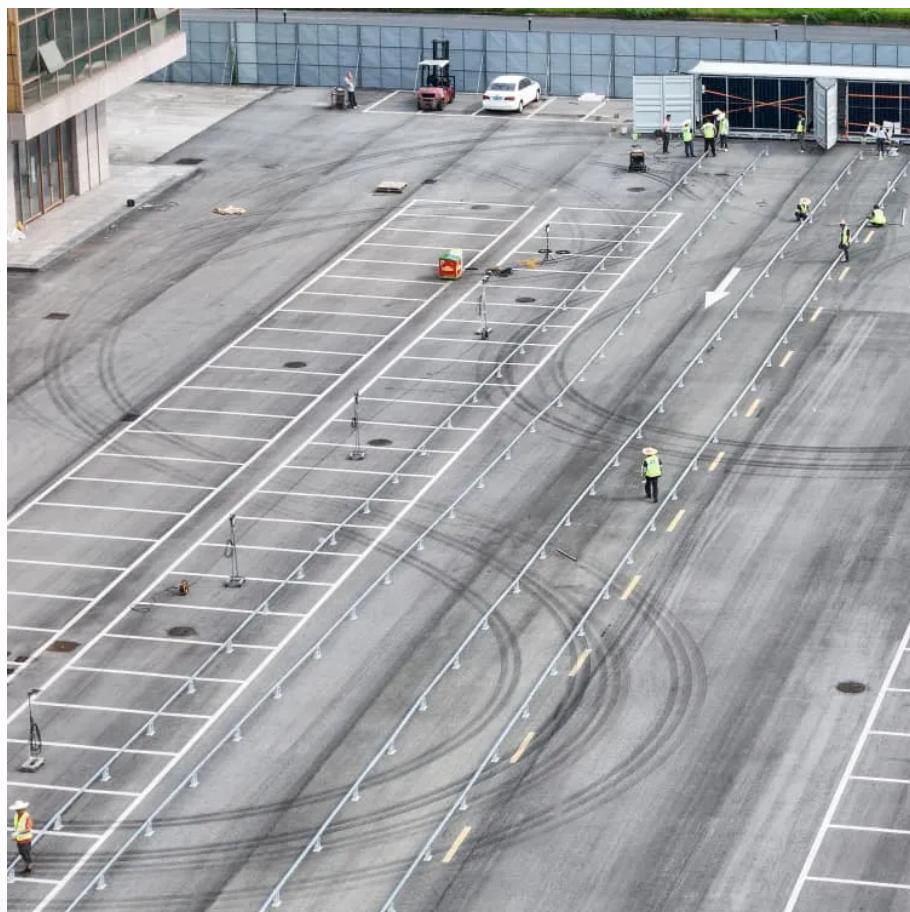




BUHLE POWER

Low-cost high-capacity energy storage





Overview

What is long duration energy storage (LDEs)?

Long Duration Energy Storage (LDES) enables extended storage of power and helps stabilize intermittent power supply when integrated with renewable energy. Technologies such as compressed air energy and thermal energy storage are being developed within the LDES field, offering low-cost solutions with substantial storage capacity.

How much does energy storage cost?

Among them, gravity storage has the highest global average cost at USD 643 per kWh of storage². The next highest is flow batteries at USD 444/kWh, followed by lithium-ion (Li-ion) batteries at USD 304/kWh and compressed air energy storage at USD 293/kWh. The lowest-cost technology is thermal energy storage at USD 232/kWh.

How much electricity can a new energy storage system supply?

Once completed, it is expected to be able to supply 10 hours of electricity to approximately 18,000 households. In addition to the above two companies, several startups are advancing the development of energy storage technologies that use gases or liquids such as air and water as storage media.

Why do we need energy storage solutions?

As the global energy transition accelerates, the need for reliable, scalable and cost-effective energy storage solutions has never been greater.



Low-cost high-capacity energy storage



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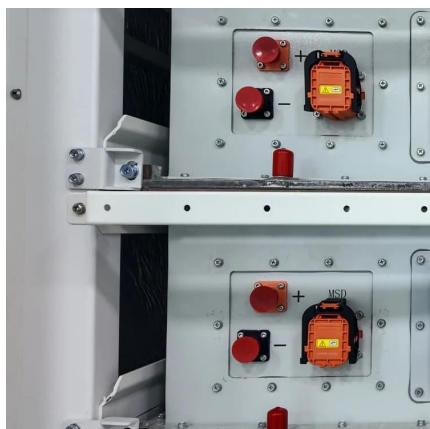
Renewable energy, such as solar energy, wind energy, and hydraulic energy, mostly belongs to process energy, which is hard to store, while fossil energy belongs to energy ...



Development of low-cost, large-scale green ...

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