

Kongres Container

Ultra-high voltage energy storage new energy



Overview

What is the future of energy storage?

The installed capacity is expected to exceed 100 GW. Looking further into the future, breakthroughs in high-safety, long-life, low-cost battery technology will lead to the widespread adoption of energy storage, especially electrochemical energy storage, across the entire energy landscape, including the generation, grid, and load sides.

Why is energy storage important?

Energy storage is one of the most important technologies and basic equipment supporting the construction of the future power system. It is also of great significance in promoting the consumption of renewable energy, guaranteeing the power supply and enhancing the safety of the power grid.

How to develop a safe energy storage system?

There are three key principles for developing an energy storage system: safety is a prerequisite; cost is a crucial factor and value realisation is the ultimate goal. A safe energy storage system is the first line of defence to promote the application of energy storage especially the electrochemical energy storage.

How secure are electrochemical energy storage technologies?

Security of most electrochemical energy storage technologies are relatively controllable. But in terms of comprehensive technical performance, there is still a large gap from the demand of actual application, resulting in no economic advantage of the application.

Why do we need high-performance energy storage systems?

Therefore, there is a surging demand for developing high-performance energy storage systems (ESSs) to effectively store the energy during the peak time and use the energy during the trough period.

How has electrochemical energy storage technology changed over time?

Recent advancements in electrochemical energy storage technology, notably lithium-ion batteries, have seen progress in key technical areas, such as research and development, large-scale integration, safety measures, functional realisation, and engineering verification and large-scale application function verification has been achieved.

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