

Energy Storage Product Frontier





Overview

What are the frontiers of energy storage technology?

The main conclusions are as follows: While the frontiers of energy storage technology are diverse, they are concentrated on electrochemical energy storage technology. In four domains, 19 energy storage technologies have been identified as energy storage research frontiers, including lithium batteries, supercapacitors, and new-generation batteries.

What is the highly cited energy storage technology literature?

The highly cited energy storage technology literature is used as the basis for revealing the evolution trend of research frontiers. The “highly cited literature” defined in this study refers to the 20 most cited articles in the energy storage field during the period from 2013 to 2022.

What are the four knowledge domains of energy storage technology research frontiers?

Among them, the research frontiers are distributed in the following four knowledge domains: electrochemical energy storage, electrical energy storage, chemical energy storage, and energy storage systems. Knowledge domain map of energy storage technology research frontiers.

How many energy storage technologies are there?

In four domains, 19 energy storage technologies have been identified as energy storage research frontiers, including lithium batteries, supercapacitors, and new-generation batteries. Among them, the growing fronts and emerging fronts occur in the domain of electrochemical energy storage and chemical energy storage.

Why is energy storage technology important?

The progress and maturity of energy storage technology can help to ensure energy security, manage climate change, create employment opportunities ,



and increase the value of current and future energy systems .

Why do we need high-performance energy storage systems?

A summary of the most important points of the review is presented below: The global transition from fossil fuels to cleaner energy alternatives has heightened the need for high-performance energy storage systems.



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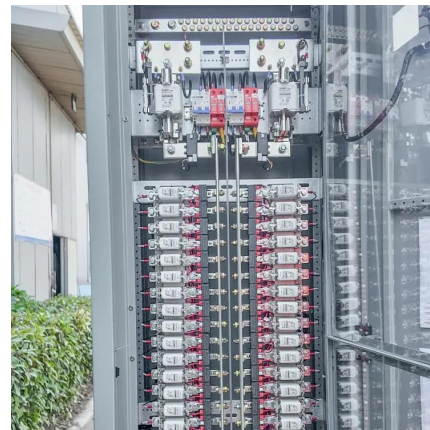


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To conclude, our analysis highlights the revolutionary role of SSBs in the future of energy storage. While substantial advancements have been made, the path forward presents numerous ...

[The energy-storage frontier: Lithium-ion batteries and beyond](#)

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Through energy storage technology, peak shaving and valley filling, frequency and voltage regulation of the power system can be realised, and the stability and reliability of the ...

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