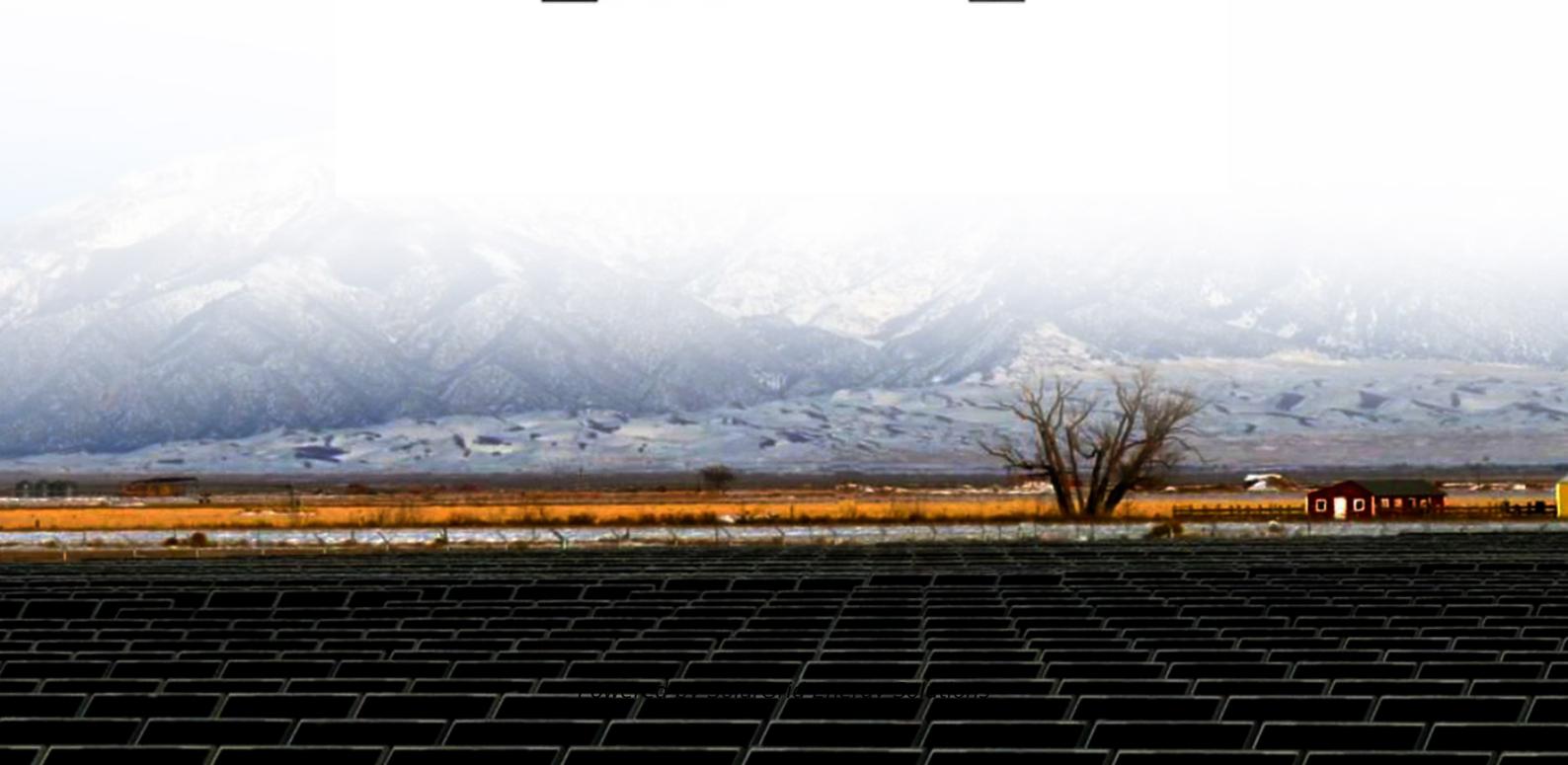


Prospects for the development of power storage



Overview

How energy storage technology is advancing industrial development?

Due to rapid development of energy storage technology, the research and demonstration of energy storage are expanding from small-scale towards large-scale. United States, Japan, the European Union have proposed a series of policies for applications of energy storage technology to promote and support industrial development [12 – 16].

What are the challenges of large-scale energy storage application in power systems?

The challenges of large-scale energy storage application in power systems are presented from the aspect of technical and economic considerations. Meanwhile the development prospect of global energy storage market is forecasted, and application prospect of energy storage is analyzed.

What is the future of energy storage?

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.

How to develop and expand energy storage technology?

The development and expansion of energy storage technology not only depend on the improvement in storage characteristics, operational control and management strategy, but also requires the cost reduction and the supports from long-term, positive stable market and policy to guide and support the healthy development of energy storage industry.

What are the challenges in energy storage?

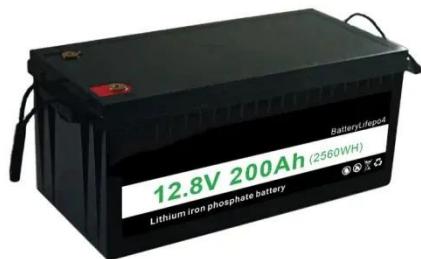
There are also challenges in materials synthesis , battery safety , and other aspects that require more personnel and time to solve related problems.

Overall, mechanical energy storage, electrochemical energy storage, and chemical energy storage have an earlier start, but the development situation is not the same.

Can energy storage technologies be used in power systems?

The application scenarios of energy storage technologies are reviewed and investigated, and global and Chinese potential markets for energy storage applications are described. The challenges of large-scale energy storage application in power systems are presented from the aspect of technical and economic considerations.

Prospects for the development of power storage



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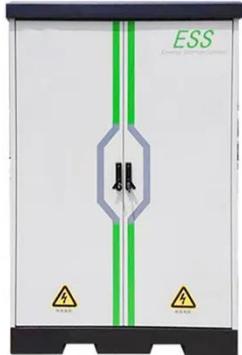
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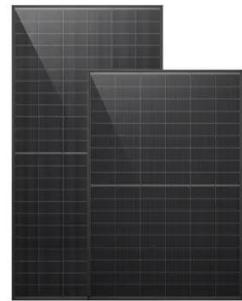
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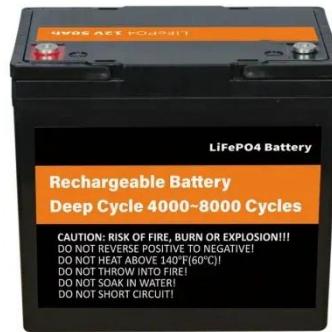
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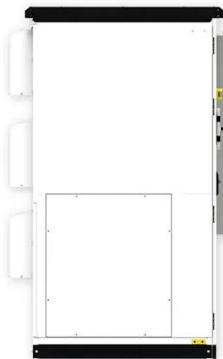
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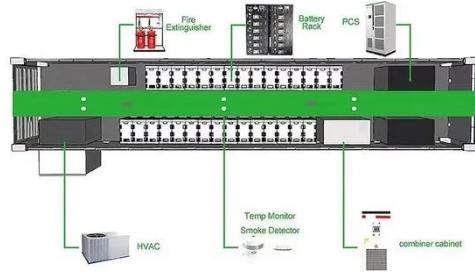


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