



Zhiguang Electric High Voltage Energy Storage System





Overview

In 2023, the world's largest single-unit cascade high-voltage energy storage system (single-unit 20MW/40MWh) jointly developed by Huaneng Group Tsinghua University, Zhiguang and others passed the test of the Electric Power Research Institute and was delivered on site. In 2022, the company released its 14th Five-Year Plan, which clearly focused on the large-scale development of energy storage, consolidated the sustainable development model of products + services + investment, and strived to grow the company into a leading digital energy technology and integrated. On March 24, 2025, China (Hangzhou) International Energy Storage Conference opened grandly at the Hangzhou International Expo Center. The event was co-hosted by Guangzhou Zhiguang Energy Storage Technology Co. and IEEE PES Energy Storage and Stationary Battery Committee (China), Institute of Electrical Engineering of. As China accelerates its dual-carbon goals and integrates a growing share of renewables into the grid, grid-forming energy storage has emerged as a critical solution to bridge the gap between intermittent clean energy sources and grid stability.



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[Zhiguang Electric, high-voltage cascading energy storage + virtual](#)

In July 2022, Zhiguang Electric launched the cascaded 35kV high-voltage direct-mounted large-capacity energy storage system for the first time. The single-unit capacity is far ahead of its ...

[Zhiguang Energy Storage Unveils 35kV High-Capacity Grid-Forming](#)

Zhiguang's 35kV high-voltage direct-connect energy storage system adopts a cascaded topology, in which multiple battery clusters are directly connected and stepped up to 35kV--eliminating the need ...



Zhiguang Electric

In 2018, the company's commercial-grade 5MW/3MWh cascade high-voltage energy storage system was officially put into operation, which created history in China and the world.

Zhiguang Electric

Zhiguang's cascaded high-voltage large-capacity storage system enhances LCOS (Levelized Cost of Storage) optimization and strengthens grid support, transforming energy storage from a cost burden ...



[Zhiguang Electric Secures RMB 148 Million Large-scale Energy ...](#)

The business covered by this contract falls under Zhiguang Electric's core operations. Should the contract be duly fulfilled, it is expected to exert a positive impact on the company's ...



[Zhiguang Energy Storage Unveils Grid-Forming Cascaded High ...](#)

The highlight of Zhiguang's exhibition was its GW-level grid-forming high-voltage cascaded energy storage system, configured with a total capacity of 500MW, integrating ten 35kV cascaded high ...



[Global Launch! Zhiguang Energy Storage ZGEn-Plus 3.0](#)

July 25, Zhiguang officially launched its third-generation cascaded high-voltage large-capacity energy storage system -- ZGEn-Plus 3.0 -- at the Energy Storage Engineering Conference in Chengdu.



[Zhiguang Energy Storage-Zhiguang Electric](#)



The Grid-Type Cascaded High-Voltage Energy Storage System has emerged as a crucial, flexible deployment solution for new power systems. Zhiguang Energy Storage will continue to adhere to the ...



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With the large-scale application of energy storage technology, the demand for power storage with large capacity and high voltage is expected to increase in future.

[Zhiguang Energy Storage Wins Industry Aurora Award! 35kV ...](#)

Leveraging its pioneering expertise in cascading high-voltage and large-capacity energy storage technology, Zhiguang has built up a multi-scenario applications and a complete solution system ...





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