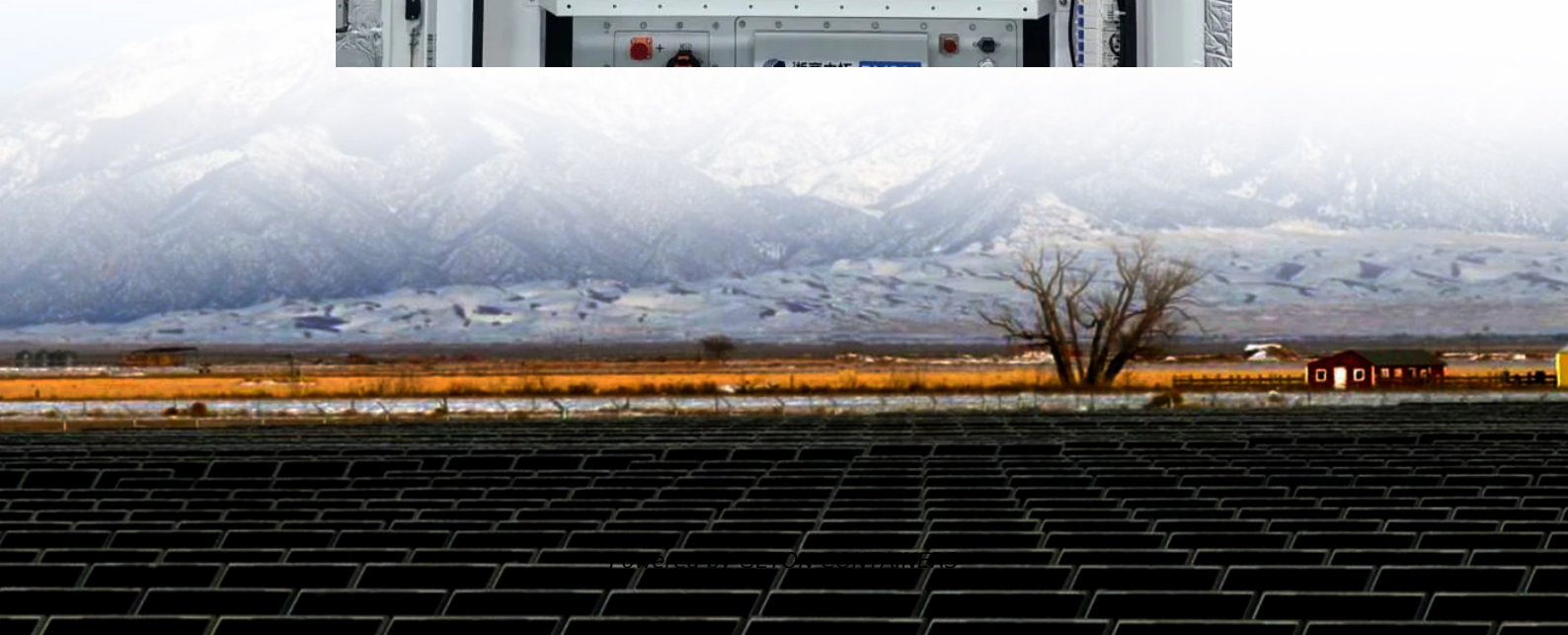


# Multifunctional energy storage power supply





## Overview

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The imperative to address traditional energy crises and environmental concerns has accelerated the need for energy structure transformation. However, the variable nature of renewable energy poses challenges.

Why is energy storage important?

'A Clean Planet for all' published by European Commission in 2018 pointed out that deployment of energy storage system is an essential action for the transition of power system towards a distributed system relying on renewable energies.

Are single-technology energy storage systems suitable for complex energy storage tasks?

Single-technology ESSs struggle to meet the rapidly increasing demand for energy storage. HESS, acting as a transitional and effective method, proves to be a suitable choice for complex energy storage tasks. The combination of BESS and HSS, known as B&H HESS, emerges as a potential multifunctional large-scale ESS.

Who is responsible for large-scale energy storage?

In the B&H HESS, the responsibility of large-scale energy storage is mainly taken charge by HSS. The capacity of power density and energy density is decoupled for HSS, which means realization of large-scale HSS is easy to come true through reasonable connection of numbers of systems.

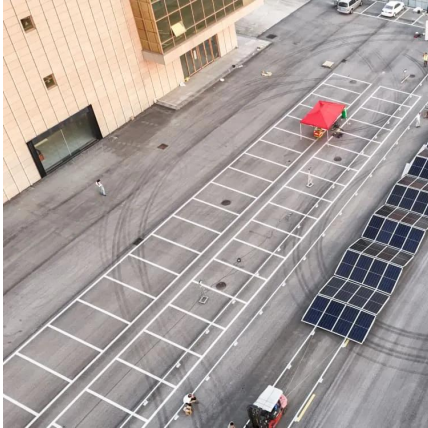
What is a large-scale energy storage system (ESS)?

Most ESSs are hundreds of kW scale for off-grid energy usage. A few MW-scale ESSs are constructed for renewable energy storage. Facing the growing serious issue of energy depletion, construction of large-scale ESS is essential. Recently, several hundreds of MW-scale ESSs were reported [30, 42, 107].



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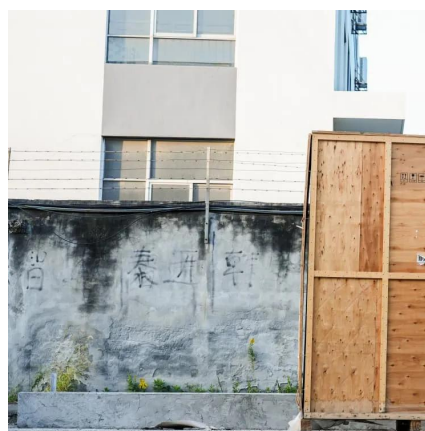
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