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Analysis report on the development prospects of energy storage cabinets



Overview

How does energy storage affect regional power systems?

While the aforementioned research primarily examines the microeconomic perspective, focusing on the application of specific energy storage (ES) technologies, there is also a body of literature that analyzes the macro-level impact of ES in regional power systems. The assessment of economic system effects often centers around cost reduction.

What are the economic impacts of energy storage technologies?

For instance, Johnson et al. evaluated the economic impacts of three energy storage technologies, namely Lithium-ion batteries, flywheels, and compressed air energy storage, using total cost of generation reductions to gauge the system value of each technology within a high-penetration renewable energy system.

When will energy storage become a large-scale development?

In March 2022, National Development and Reform Commission (NDRC) and National Energy Administration (NEA) released the 14th Five-Year Plan for the development of energy storage, which set the target for ES to enter the stage of large-scale development by 2025. The target calls for lower costs of ES.

When will energy storage capacity trajectories overlap?

Since actual historical observations and planning data for energy storage capacity are used from 2017 to 2025, the trajectories for all scenarios overlap completely during this initial period. To enhance clarity, we have adjusted the x-axis range to start from 2025.

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DOI: 10.1016/j.scs.2022.104368 Corpus ID: 254959741; Prospects and barriers analysis framework for the development of energy storage sharing @article{Yong2022ProspectsAB, ...

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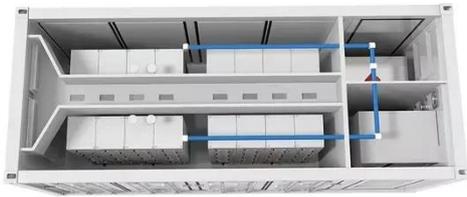


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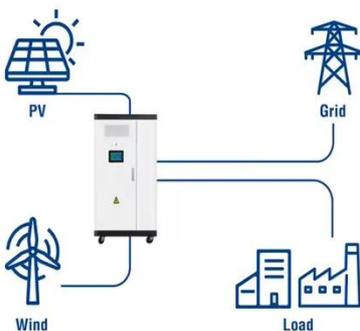
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