

# **Benefits of energy storage power station project**





## Overview

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Why do new energy power plants need energy storage?

By configuring energy storage, new energy power plants can store the excess energy and discharge it when the output is insufficient, thus compensating for the power deficit. Social benefits are defined as the reduction in power curtailment of the new energy power plant after configuring energy storage.

Why is energy storage configuration important?

In the context of increasing renewable energy penetration, energy storage configuration plays a critical role in mitigating output volatility, enhancing absorption rates, and ensuring the stable operation of power systems.

Why is energy storage important?

Energy storage, with its flexible adjustment capabilities, can effectively mitigate the output volatility of renewable energy sources, enhance the utilization rate of renewables, and provide a solution for their large-scale integration.

How much storage capacity should a new energy project have?

For instance, in Guangdong Province, new energy projects must configure energy storage with a capacity of at least 10% of the installed capacity, with a storage duration of 1 h . However, the selection of the appropriate storage capacity and commercial model is closely tied to the actual benefits of renewable energy power plants.



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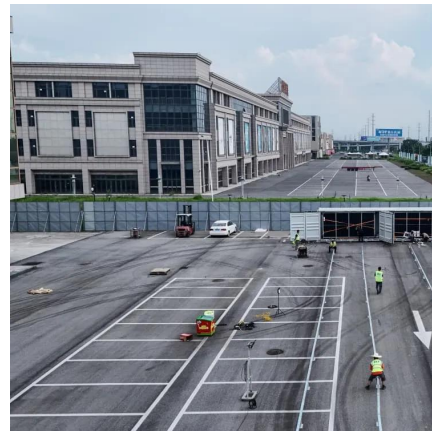
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