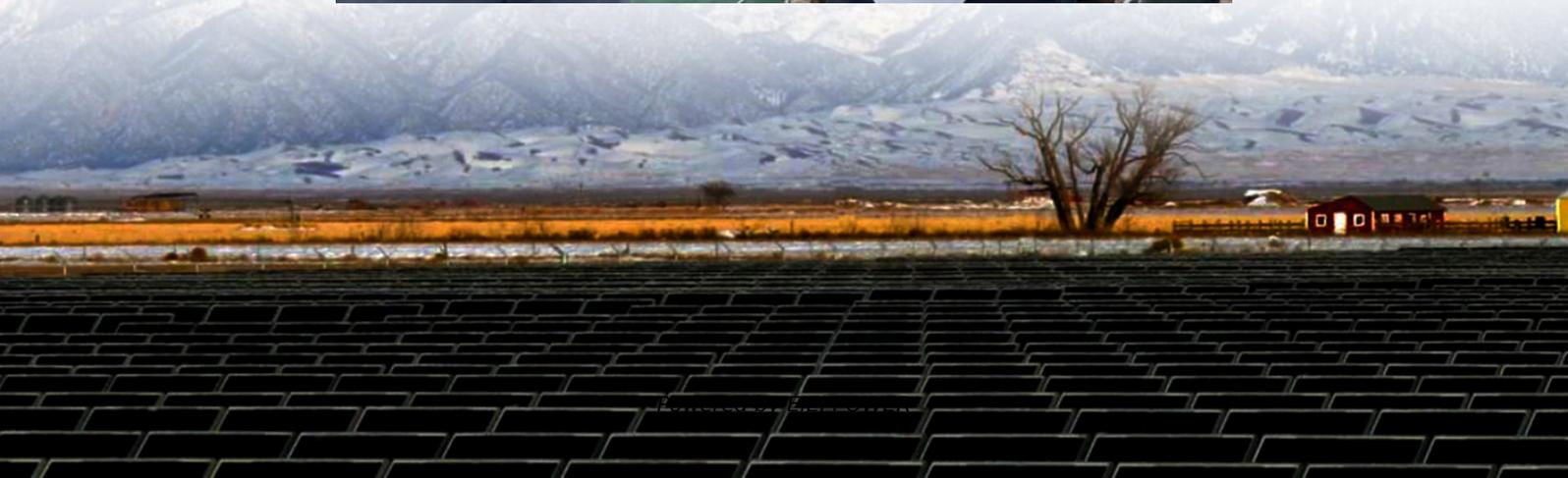


# **What does frequency regulation of energy storage power stations mean**





## Overview

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How does the energy storage system respond to frequency fluctuations?

When the system frequency fluctuates, the energy storage system automatically adjusts its power output in response to frequency changes, thereby assisting in frequency regulation. In this mode, the energy storage system can respond quickly to frequency fluctuations, enhancing system frequency stability.

Can electrochemical energy storage improve frequency regulation?

At the same time, with the rapid development of renewable energy and the increasing demand for flexibility in power systems, electrochemical energy storage technology has shown great potential in frequency regulation due to its unique advantages.

What is the difference between energy storage system and power plant?

When the system frequency fluctuates, power plants first perform primary and secondary frequency regulation, while the energy storage system assists by providing additional power support when the power plants' capacity is insufficient to stabilize the frequency.

How does electrochemical energy storage work?

In this mode, the electrochemical energy storage system functions as an independent frequency regulation resource directly connected to the power system. When the system frequency fluctuates, the energy storage system automatically adjusts its power output in response to frequency changes, thereby assisting in frequency regulation.



## What does frequency regulation of energy storage power stations m



### Energy storage system and applications in power system frequency regulation

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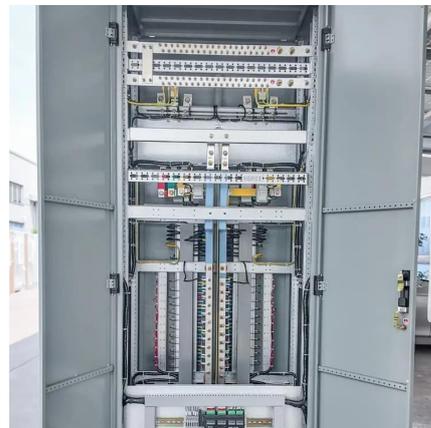


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