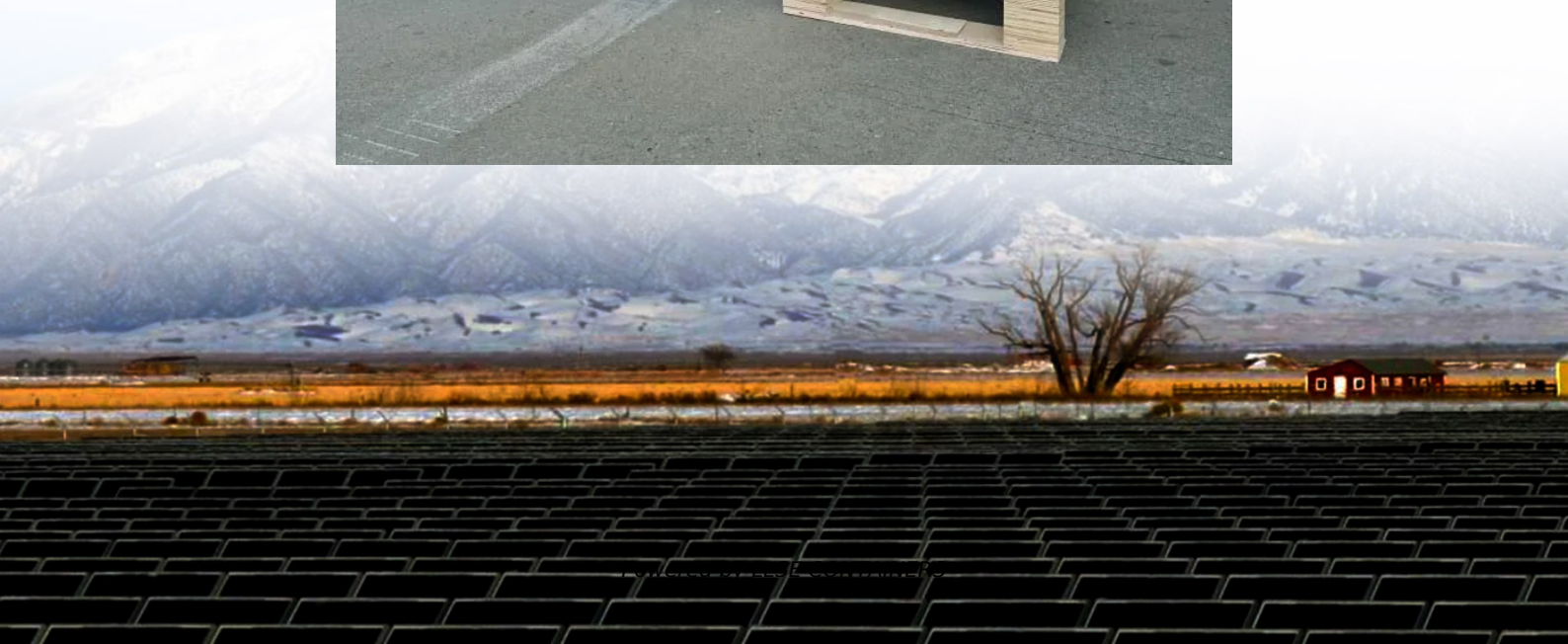


# **What is primary frequency regulation of power station energy storage**





## 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.

What is primary frequency regulation?

Primary frequency regulation refers to the process in which power plants adjust their output through the automatic regulation of the speed governors when the system frequency deviates from the nominal value, in order to stabilize the system frequency.

Why is frequency stability important in power systems?

In power systems, frequency stability is one of the key indicators for ensuring safe and reliable operation. Primary and secondary frequency regulation play a crucial role in maintaining frequency stability in the system.

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 primary frequency regulation of power station energy storage

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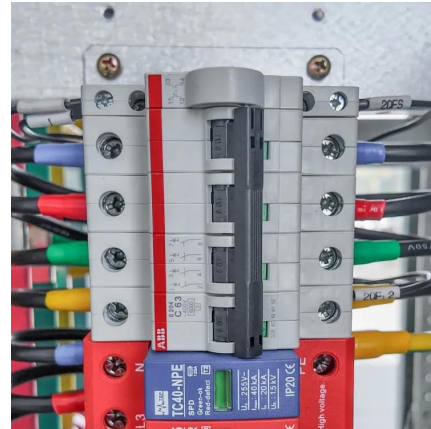
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