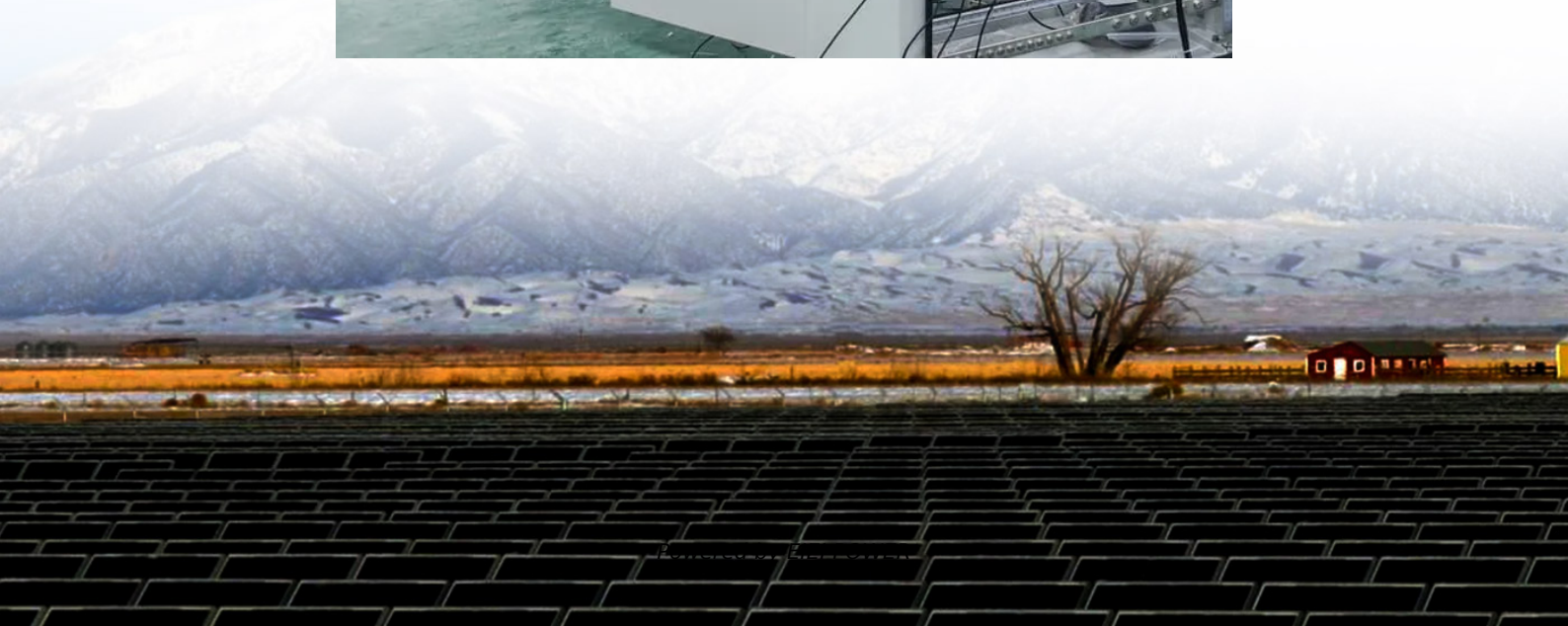


# Frequency regulation energy storage power station capacity





## Overview

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Can large-scale battery energy storage systems participate in system frequency regulation?

In the end, a control framework for large-scale battery energy storage systems jointly with thermal power units to participate in system frequency regulation is constructed, and the proposed frequency regulation strategy is studied and analyzed in the EPRI-36 node model.

Does battery energy storage participate in system frequency regulation?

Since the battery energy storage does not participate in the system frequency regulation directly, the task of frequency regulation of conventional thermal power units is aggravated, which weakens the ability of system frequency regulation.

Do hybrid energy storage power stations improve frequency regulation?

To leverage the efficacy of different types of energy storage in improving the frequency of the power grid in the frequency regulation of the power system, we scrutinized the capacity allocation of hybrid energy storage power stations when participating in the frequency regulation of the power grid.

Can battery energy storage regulate the primary frequency of the power grid?

Currently, there have been some studies on the capacity allocation of various types of energy storage in power grid frequency regulation and energy storage. Chen, Sun, Ma, et al. in the literature have proposed a two-layer optimization strategy for battery energy storage systems to regulate the primary frequency of the power grid.



## Frequency regulation energy storage power station capacity

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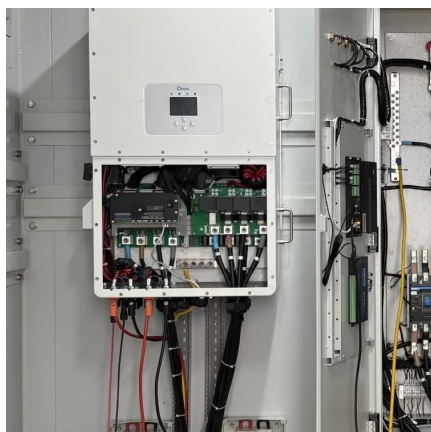


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