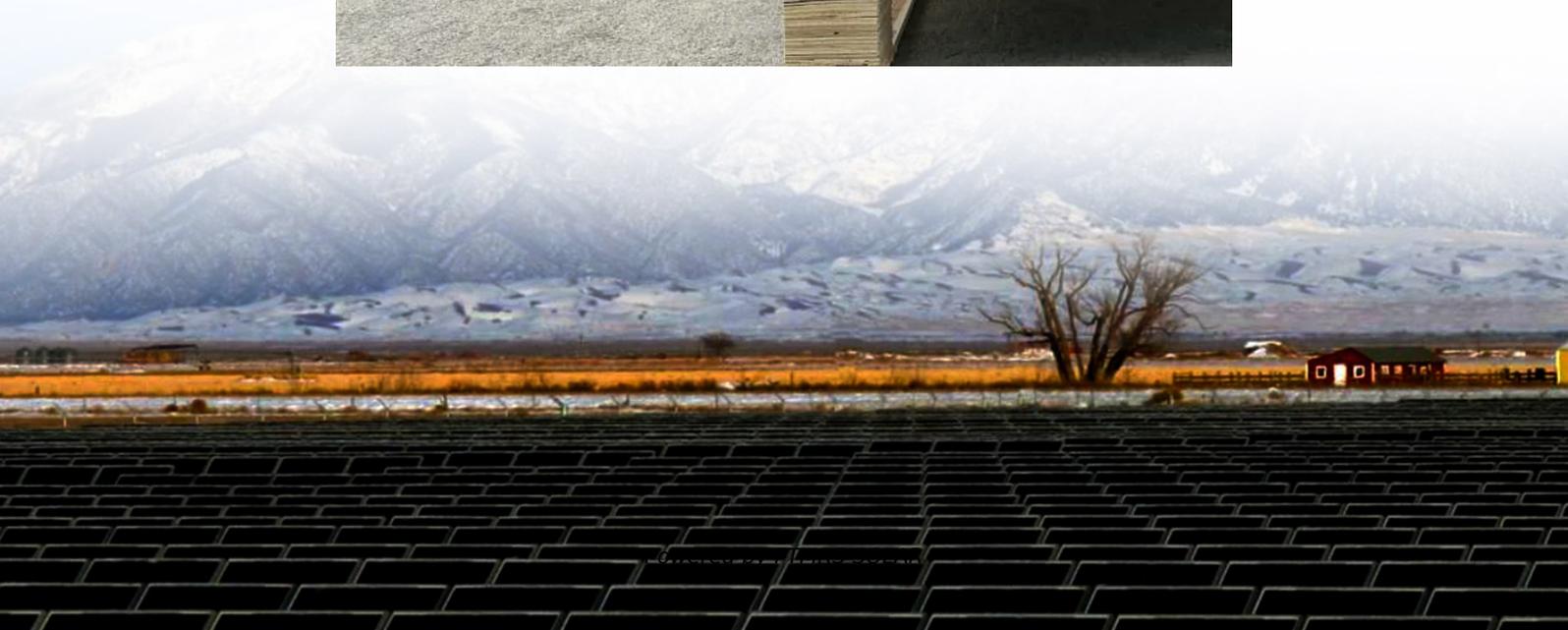


Frequency Modulation Energy Storage Cabinet





Overview

Can battery energy storage improve frequency modulation of thermal power units?

Li Cuiping et al. used a battery energy storage system to assist in the frequency modulation of thermal power units, significantly improving the frequency modulation effect, smoothing the unit output power and reducing unit wear.

What is dynamic frequency modulation model?

The dynamic frequency modulation model of the whole regional power grid is composed of thermal power units, energy storage systems, nonlinear frequency difference signal decomposition, fire-storage cooperative fuzzy control power distribution, energy storage system output control and other components. Fig. 1.

What is the frequency modulation of hybrid energy storage?

Under the four control strategies of A, B, C and D, the hybrid energy storage participating in the primary frequency modulation of the unit $|\Delta f_m|$ is 0.00194 p.u.Hz, excluding the energy storage system when the frequency modulation $|\Delta f_m|$ is 0.00316 p.u.Hz, compared to a decrease of 37.61 %.

How a thermal power unit coupling energy storage system works?

In this strategy, part of the power commands are assigned to the energy storage system through fuzzy control, so as to establish the primary frequency modulation scheduling module of the thermal power unit coupling energy storage system, which can ensure the power generation revenue of thermal power units.



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