

Title: Secondary frequency regulation energy storage system

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Secondary frequency regulation, also known as Automatic Generation Control (AGC), is the process that follows primary frequency regulation. It adjusts the active power output of power ...

Secondary frequency regulation is essential for maintaining power system frequency stability, especially with the growing integration of renewable energy.

Compared to traditional strategies, the proposed approach takes into account the SoC discrepancies among multiple energy storage units and the duration of system net power imbalances. It ...

Traditional control methods find it difficult to effectively coordinate multiple frequency regulation resources to cope with the stochastic fluctuation problem

To address these issues, this paper proposes a novel secondary frequency regulation control strategy for thermal-energy storage systems based on a variable integral coefficient.

**Abstract:** An innovative control strategy for adaptive secondary frequency regulation utilizing dynamic energy storage based on primary frequency response is proposed.

This article explores the structural design, operational principles, and advanced control strategies of large-scale energy storage battery systems in secondary frequency regulation.

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