

Energy storage power station auxiliary frequency regulation





Overview

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.

Do energy storage systems participate in frequency regulation?

Current research on energy storage control strategies primarily focuses on whether energy storage systems participate in frequency regulation independently or in coordination with wind farms and photovoltaic power plants .

Do battery energy storage systems need new frequency regulation methods?

Therefore, it is necessary to introduce new frequency regulation methods to enhance frequency support for the power system. Battery Energy Storage Systems (BESS) have become a hot research topic in participating in primary frequency regulation coordination control [3, 4, 5, 6].

Do battery energy storage systems participate in primary frequency regulation coordination control?

Battery Energy Storage Systems (BESS) have become a hot research topic in participating in primary frequency regulation coordination control [3, 4, 5, 6]. Numerous studies by domestic and international scholars have been conducted on the frequency regulation models and control strategies of BESSs participating in primary frequency regulation.



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