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West Asia Energy Storage System Peak Shaving and Valley Filling Project



Overview

This energy storage project, located in Qingyuan City, Guangdong Province, is designed to implement peak shaving and valley filling strategies for local industrial power consumption. Do energy storage systems achieve the expected peak-shaving and valley-filling effect?

Abstract: In order to make the energy storage system achieve the expected peak-shaving and valley-filling effect, an energy-storage peak-shaving scheduling strategy considering the improvement goal of peak-valley difference is proposed.

Does constant power control improve peak shaving and valley filling?

Finally, taking the actual load data of a certain area as an example, the advantages and disadvantages of this strategy and the constant power control strategy are compared through simulation, and it is verified that this strategy has a better effect of peak shaving and valley filling. Conferences > 2021 11th International Confe.

Does multi-agent system affect peak shaving and valley filling potential of EMS?

In this paper, a Multi-Agent System (MAS) framework is employed to investigate the peak shaving and valley filling potential of EMS in a HRB which is equipped with PV storage system. The effects of EMS on shiftable loads and PV storage resources are analyzed.

How is peak-shaving and valley-filling calculated?

First, according to the load curve in the dispatch day, the baseline of peak-shaving and valley-filling during peak-shaving and valley filling is calculated under the constraint conditions of peak-valley difference improvement target value, grid load, battery power, battery capacity, etc.

Can EMS reduce the peak-to-Valley ratio of HRB electricity demand profiles?

The simulation results reveal the feasibility of the proposed approach to effectively flatten the HRB electricity demand and net demand profiles. With the help of EMS, the peak-to-valley ratio of demand profiles and net demand profile are reduced significantly.

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