



MODERNIZATION SOLAR

Lu Emergency Energy Storage Power Supply





Overview

Mobile energy storage (MES) is a typical flexible resource, which can be used to provide an emergency power supply for the distribution system. However, it is inevitable to consider the complicated coupling relations.

Can a battery energy storage system be used as an emergency power supply?

This paper introduces the concept of a battery energy storage system as an emergency power supply for a separated power network, with the possibility of island operation for a power substation with one-side supply.

What is mobile energy storage?

Mobile energy storage (MES) is a typical flexible resource, which can be used to provide an emergency power supply for the distribution system. However, it is inevitable to consider the complicated coupling relations of mobile energy storage, transportation network, and power grid, which can cause issues of complex modeling and low efficiency.

What are emergency resources?

Emergency resources are often used to supply electricity temporarily in the distribution system during failures, power outages, and overhauls. MES is an emergency resource that can be plugged into the system to meet the customers' emergency power demand.

Does battery energy storage reduce power outages?

The implementation of the battery energy storage system will contribute to a more than 5-fold reduction in the occurrence of power outages in the time interval from 3 min to 1.5 h, which will clearly reduce the System Average Interruption Frequency Index and System Average Interruption Duration Index factors.



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