

A-Core Container

Internal control mechanism for the quality of communication base station energy storage system



Overview

Why do communication base stations use battery energy storage?

Meanwhile, communication base stations often configure battery energy storage as a backup power source to maintain the normal operation of communication equipment [3, 4]. Given the rapid proliferation of 5G base stations in recent years, the significance of communication energy storage has grown exponentially [5, 6].

What is the primary responsibility of the base station energy storage?

The primary responsibility of the base station energy storage is to protect the power supply of the base station, so the dynamic backup capacity of the base station in real time will be considered in the future. Chen, X.; Lu, C.; Han, Y.: Power system frequency problem analysis and frequency characteristics research review.

How does a base station control center work?

The operational data of base stations are uploaded to the control center. Based on frequency deviation and operation state of base station, regulation instructions are sent by the control center. After the regulation is completed, the feedback information is sent back to the dispatching center of the power system.

What is the purpose of a base station?

The structure of base station provides conditions for energy storage to assist in power system frequency regulation. Although the power output of a single base station storage is limited, the combined regulation of large-scale base stations can have a significant meaning.

What is a hybrid control strategy for communication base stations?

The objective of this paper is to present a hybrid control strategy for communication base stations that considers both the communication load and

time-sharing tariffs.

Is Dn voltage control a co-regulation method for base station energy storage?

However, these storage resources often remain idle, leading to inefficiency. To enhance the utilization of base station energy storage (BSES), this paper proposes a co-regulation method for distribution network (DN) voltage control, enabling BSES participation in grid interactions.

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