

A-Core Container

Is the recent power restriction related to 5g base stations



Overview

Are 5G base stations a flexible resource for power systems?

The authors declare no conflicts of interest. Abstract 5G base stations (BSs) are potential flexible resources for power systems due to their dynamic adjustable power consumption. However, the ever-increasing energy consumption of 5G BSs place.

Why is energy storage important for 5G base station construction?

With the rapid development of 5G base station construction, significant energy storage is installed to ensure stable communication. However, these storage resources often remain idle, leading to inefficiency.

What is a 5G base station energy consumption prediction model?

According to the energy consumption characteristics of the base station, a 5G base station energy consumption prediction model based on the LSTM network is constructed to provide data support for the subsequent BSES aggregation and collaborative scheduling.

How a 5G base station has changed the performance of a base station?

To meet the communication requirements of large capacity and low delay, the commissioning of new equipment has significantly improved the performance of 5G base stations compared with the previous generation base stations. At the same time, the new equipment has altered the power load characteristics of base stations.

What is a 5G power supply?

The power supply equipment manages the distribution and conversion of electrical energy among equipment within the 5G base station. During main power failures, the energy storage device provides emergency power for the communication equipment.

How will 5G help the power grid?

This will enable the efficient utilization of idle resources at 5G base stations in the collaborative interaction of the power system, fostering mutual benefit and win-win between the power grid and the communication operators.

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