

Kongres Container

Micro base station power supply application scenarios



Overview

Base station operators deploy a large number of distributed photovoltaics to solve the problems of high energy consumption and high electricity costs of 5G base stations. In this study, the idle space of the.

What is the power consumption of a micro base station?

The power consumption of micro base station is mainly basic power consumption. It does not change significantly with the traffic load, and because the micro base station is in the active or dormant state, the power consumption of the k -th micro base station as in Equation (7).

Can a 5G base station reduce the cost of a base station?

Considering the construction of the 5G base station in a certain area as an example, the results showed that the proposed model can not only reduce the cost of the 5G base station operators, but also reduce the peak load of the power grid and promote the local digestion of photovoltaic power. 0.

Introduction.

How 5G base station microgrid power backup works?

The charging and discharging actions of energy storage meet the requirements of various 5G base stations for microgrid power backup. During the low electricity price period, the 5G base station microgrid purchases electricity from the grid to meet the power demand of the base station.

How much power does the Acer micro base station use?

The base power consumption of the Acer station is 0.78 kW, the flow load coefficient is 4.7, the active power consumption of the micro base station is 0.112 kW, and the dormant power consumption of the micro base station is 0.039 kW.

Should 5G base station operators invest in photovoltaic storage systems?

From the above comparative analysis results, 5G base station operators invest in photovoltaic storage systems and flexibly dispatching the remaining space

of the backup energy storage can bring benefits to both the operators and power grids.

What is a typical base station power consumption model?

In a typical base station power consumption model, the power consumption of the base station is not stable at a particular value but changes with the real-time traffic load . Owing to the behavior of the communication users, the traffic load has the dual characteristics of time and space.

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