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Nigeria 5G base station power supply and distribution station



Overview

This paper proposes a distribution network fault emergency power supply recovery strategy based on 5G base station energy storage. This strategy introduces Theil's entropy and modified Gini coefficient.

Does 5G base station energy storage participate in distribution network power restoration?

For 5G base station energy storage participation in distribution network power restoration, this paper intends to compare four aspects. 1) Comparison between the fixed base station backup time and the methods in this paper.

What is a 5G base station?

At the same time, a large number of 5G base stations (BSs) are connected to distribution networks, which usually involve high power consumption and are equipped with backup energy storage, giving it significant demand response potential.

What factors affect the energy storage reserve capacity of 5G base stations?

This work explores the factors that affect the energy storage reserve capacity of 5G base stations: communication volume of the base station, power consumption of the base station, backup time of the base station, and the power supply reliability of the distribution network nodes.

How many 5G base stations are there in China?

Since China took the first step of 5G commercialization in 2019, by 2022, the number of 5G base stations built in China will reach 2.31 million. The power consumption of 5G base stations will increase by 3-4 times compared with 4G base stations [1, 2], significantly increasing the energy storage capacity configured in 5G base stations.

How are Base Transceiver Stations distributed in Nigeria?

They are distributed as follows based on their applications on sites in Nigeria: This is a Base Transceiver Station power system that has been designed in

such a way that it comprises of one or two alternating current generating sets, the Automatic Transfer Switch (ATS), the Rectifier system, Back-up Batteries and the Breakers. 2.

What is 5G BS energy storage capacity?

Energy storage, as a backup energy source for 5G BS, is needed to supply power to the BS in case of distribution network failure. As shown in Fig. 3, the 5G BS energy storage capacity can be divided into backup capacity and dispatchable capacity .

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