

Base station power supply problem





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 coef.

Can base station energy storage participate in emergency power supply?

Based on the established energy storage capacity model, this paper establishes a strategy for using base station energy storage to participate in emergency power supply in distribution network fault areas.

Why do base stations have a small backup energy storage time?

Base stations' backup energy storage time is often related to the reliability of power supply between power grids. For areas with high power supply reliability, the backup energy storage time of base stations can be set smaller.

Does a high power supply reliability increase base station energy storage capacity?

The case analysis done in this article verifies the effectiveness of the proposed method: places with high power supply reliability have more available base station energy storage capacity. Where traffic is high, less base station energy storage capacity is available.

What is the relationship between power supply reliability and backup time?

According to the inverse relationship between the power supply reliability of the distribution network and the backup time of the base station, the traditional base station energy storage model is modified to obtain a base station energy storage model that is affected by power supply reliability and base station communication volume.



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