

# **Do 5g base stations use backup power**





## Overview

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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.

Why are 5G base stations important?

The denseness and dispersion of 5G base stations make the distance between base station energy storage and power users closer. When the user's load loses power, the relevant energy storage can be quickly controlled to participate in the power supply of the lost load.

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 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.

What is the minimum backup time of a 5G base station?

Comprehensive vulnerability of system nodes. In this paper, we assume that the minimum backup time  $T_0$  of the 5G base station is 2 h, which is entered into equation (10) to obtain the backup time of the base station at each node (rounding the result), as shown in Fig. 15.



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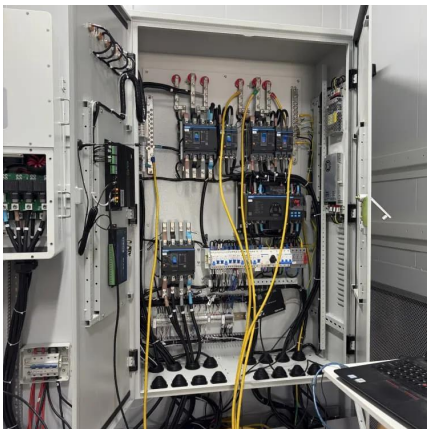
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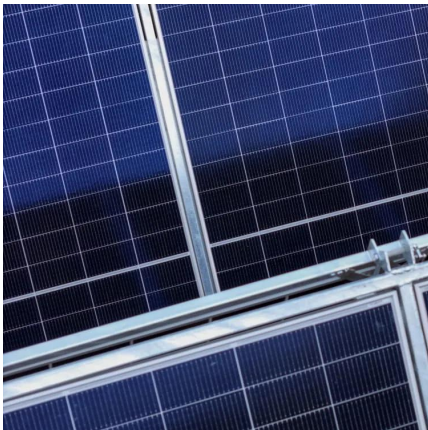






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