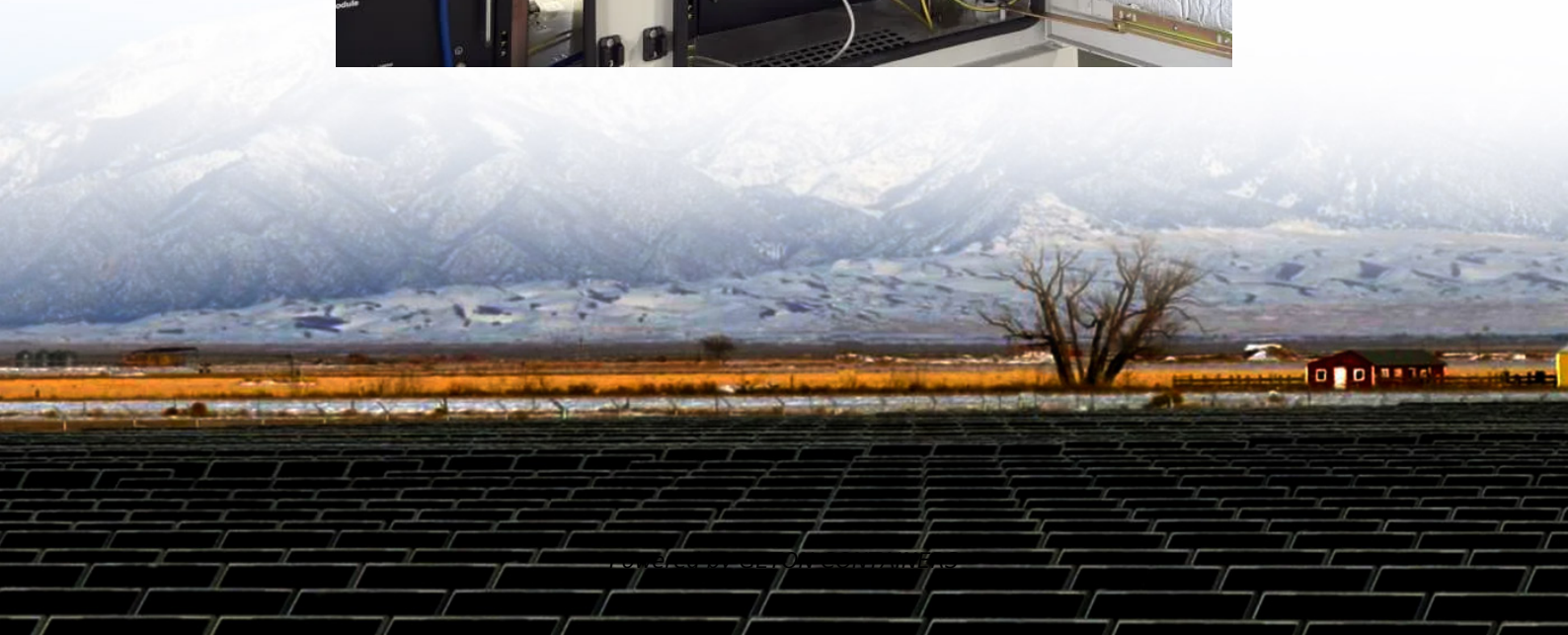


Malaysia s 5g base station changes to direct power supply





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.

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.

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.

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.

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.



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5G communication requires more micro base station at the RAN side, so, the switching power supply of rectifier, -48V power supply, HVDC, DCDC converter, DCDC power module, power ...



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The growth of Malaysia's 5G communication base station backup power supply market is primarily driven by the rapid deployment of 5G infrastructure across the country.

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