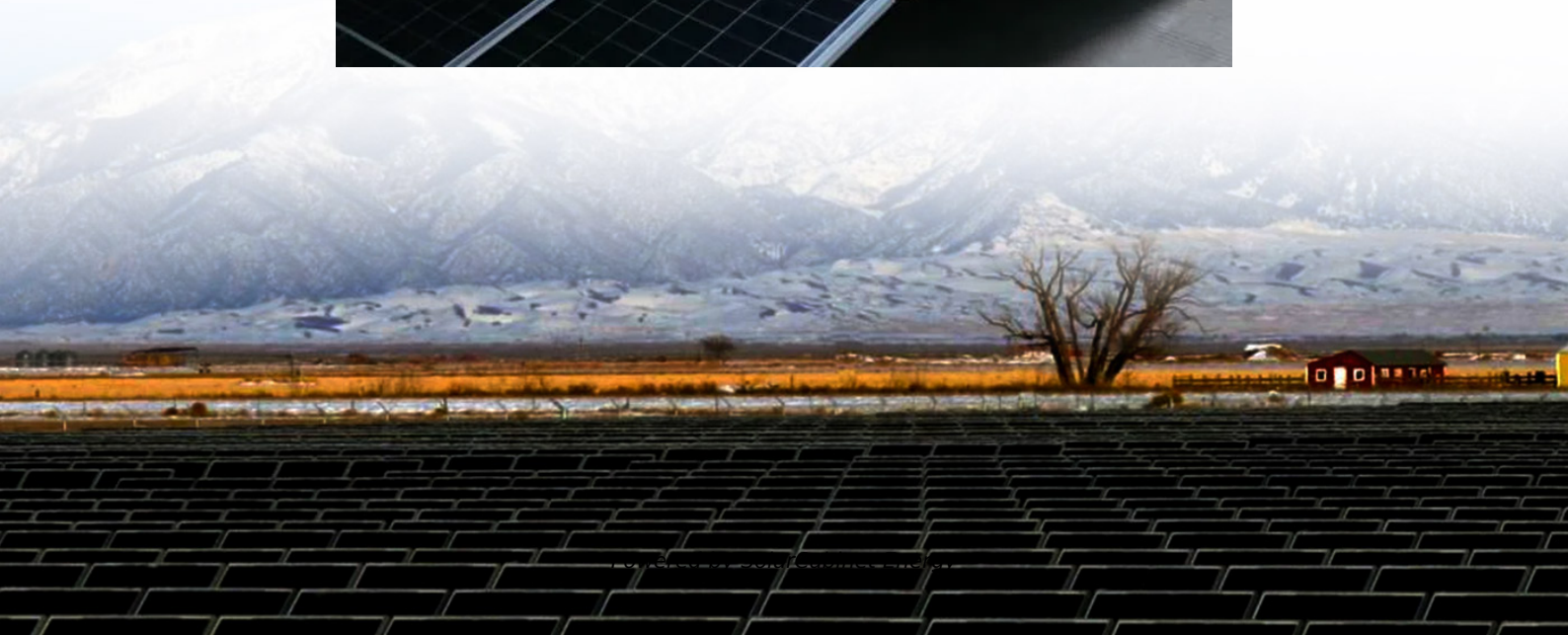


Yemen 5G base station power supply transformation





Overview

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.

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 is the energy storage demand for China's 5G base stations?

According to data from the Ministry of Industry and Information Technology of China, the energy storage demand for China's 5G base stations is expected to reach 31.8 GWh by 2023 (as shown in Fig. 1).

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.

How to determine backup energy storage capacity of base stations?



For the determination of the backup energy storage capacity of base stations in different regions, this paper mainly considers three factors: power supply reliability of the grid node where the base station is located (grid node vulnerability), the load level of the grid node and communication load.



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As an emerging load, 5G base stations belong to typical distributed resources [7]. The in-depth development of flexi-bility resources for 5G base



stations, including their internal energy ...



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