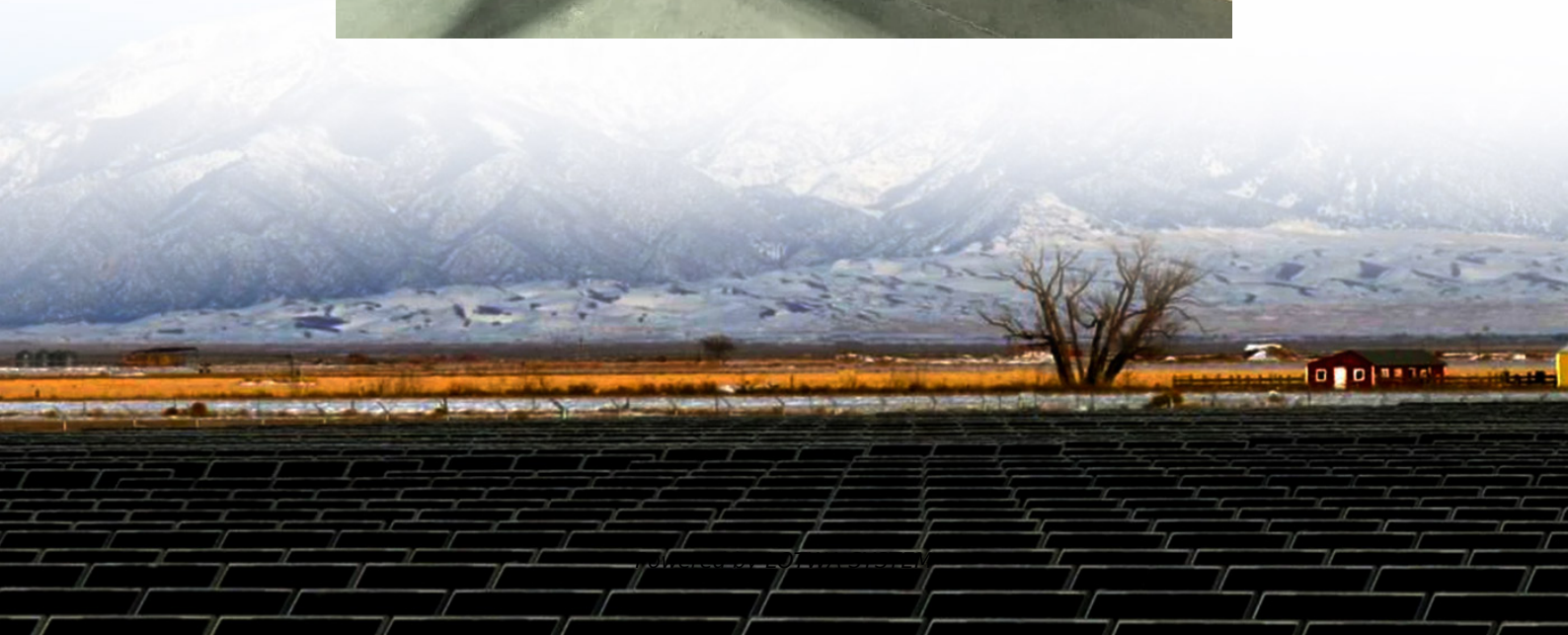


5g base station power issue





Overview

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.

How a 5G base station has changed the performance of a base station?

To meet the communication requirements of large capacity and low delay, the commissioning of new equipment has significantly improved the performance of 5G base stations compared with the previous generation base stations. At the same time, the new equipment has altered the power load characteristics of base stations.

What equipment is used in a 5G base station?

AAU is the most energy-consuming equipment in 5G base stations, accounting for up to 90% of their total energy consumption. Auxiliary equipment includes power supply equipment, monitoring and lighting equipment. The power supply equipment manages the distribution and conversion of electrical energy among equipment within the 5G base station.

What is a 5G base station energy consumption prediction model?

According to the energy consumption characteristics of the base station, a 5G base station energy consumption prediction model based on the LSTM network is constructed to provide data support for the subsequent BSES aggregation and collaborative scheduling.



5g base station power issue

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Conclusion Deploying 5G base stations is a complex and challenging task. From technical hurdles like high - frequency spectrum limitations and power consumption to regulatory issues and ...

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