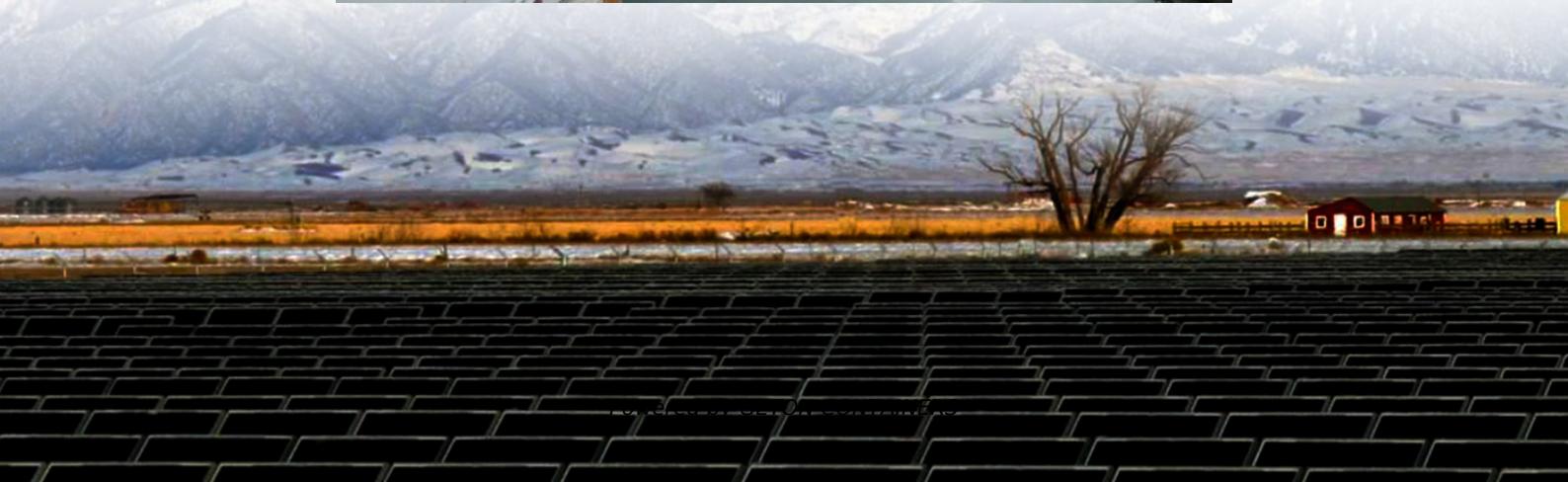




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5g solar container communication station EMS processing process





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 does 5G ESS work?

The base station is connected to 5G core network through fiber transmission. Then, core data can travel to the cloud platform at the remote end, where they are analyzed. After that, the overall control command is output and sent to the ESS through 5G two-way communication network.

What is a distributed collaborative optimization approach for 5G base stations?

In this paper, a distributed collaborative optimization approach is proposed for power distribution and communication networks with 5G base stations. Firstly, the model of 5G base stations considering communication load demand migration and energy storage dynamic backup is established.

Do 5G BSS have a flexible operation model?

Conclusions In this paper, an operation model of 5G BSs considering its communication load migration and energy storage dynamic backup is first presented, and then a coordinated optimization model of distribution and 5G communication networks is established to fully explore the operation flexibility of 5G BSs.



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