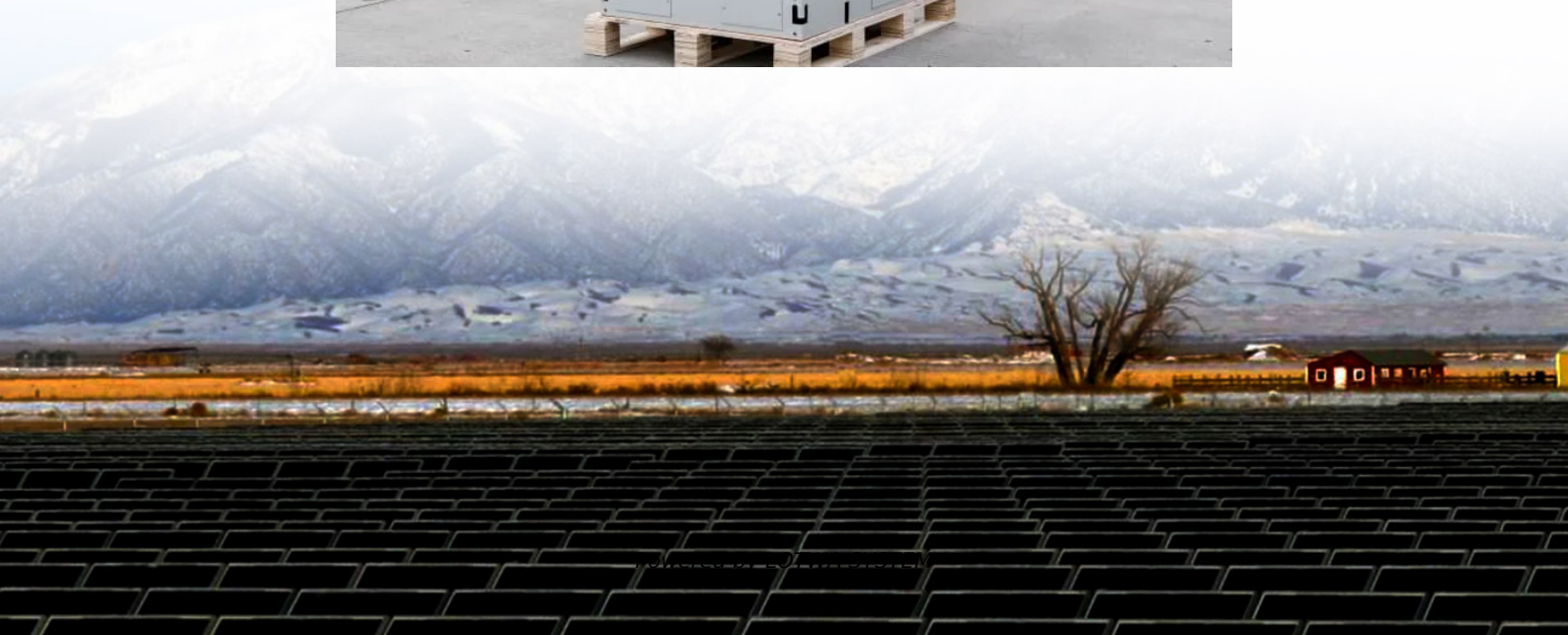


Are 5G base stations shared for communication





Overview

What is a base station in a 5G network?

Base stations are the backbone of wireless networks, facilitating communication between mobile devices and the network infrastructure. In LTE (Long Term Evolution) networks, these base stations are known as eNodeBs (evolved Node Bs), while in 5G networks, they are referred to as gNodeBs (next-generation Node Bs).

Are 5G base stations able to respond to demand?

5G base stations have experienced rapid growth, making their demand response capability non-negligible. However, the collaborative optimization of the distribution network and 5G base stations is challenging due to the complex coupling, competing interests, and information asymmetry among different stakeholders.

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.

What is a collaborative optimal operation model of 5G base stations?

Afterward, a collaborative optimal operation model of power distribution and communication networks is designed to fully explore the operation flexibility of 5G base stations, and then an improved distributed algorithm based on the ADMM is developed to achieve the collaborative optimization equilibrium.



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