

Yamoussoukro 5G solar container communication station energy management system





Overview

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.

What is the architecture and coordination optimization model of 5G base station?

The architecture and coordination optimization model composed of a 5G communication network and distribution network is proposed in Section 3. Afterward, a distributed coordination algorithm is designed in Section 4 with simulation results presented in Section 5. Finally, Section 6 concludes the paper. 2. Model of 5G base station.

How does 5G communication load migration reduce power consumption?

The communication load migration reduces the power consumption of 5G BS effectively. For example, when the number of communication users in commercial or residential areas is low, the BS there will enter a dormant state by transferring their load to the central BS 3, and effectively reduce the power consumption of 5G communication networks.



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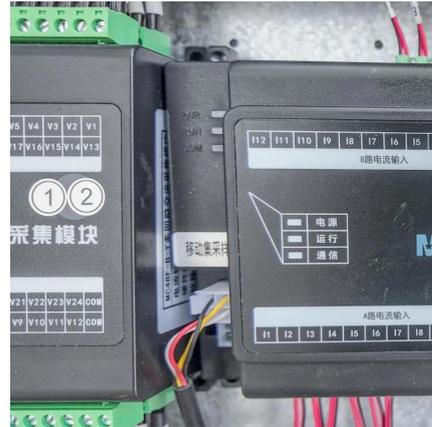
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