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Title: Can 5g base station and communication share one

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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.

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 the difference between distribution network and 5G BS?

The distribution network and 5G BSs belong to different stakeholders,i.e.,DSO and CO,with competing interests. The information possessed by these two stakeholders is asymmetric. For example,the network constraint is known only by the DSO,while the communication load of BSs is known only by the CO.

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