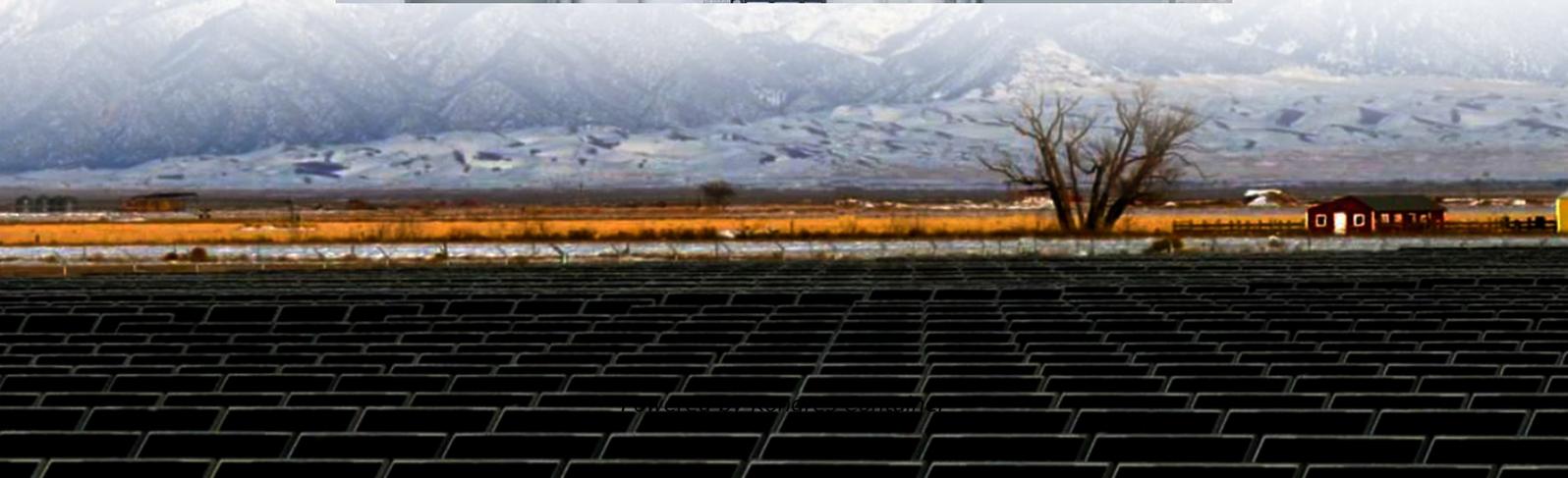


Kongres Container

Communication base station power supply intention cooperation plan



Overview

Can communication and power coordination planning improve communication quality of service?

Our study introduces a communications and power coordination planning (CPCP) model that encompasses both distributed energy resources and base stations to improve communication quality of service.

Do 5G communication base stations have multi-objective cooperative optimization?

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network (ADN) and constructs a description model for the operational flexibility of 5G communication base stations.

What is a communications cooperation strategy?

In the communications cooperation strategy, the communications operator establishes a dedicated power wireless network and the DSO provides the power supply and establishes the supporting distributed photovoltaic (PV) and energy storage under this MG. Figure 1. The framework of the cooperation strategies.

What is the energy consumption of 5G communication base stations?

Overall, 5G communication base stations' energy consumption comprises static and dynamic power consumption. Among them, static power consumption pertains to the reduction in energy required in 5G communication base stations that remains constant regardless of service load or output transmission power.

How do communication service quality requirements affect cooperative planning?

In actual systems, communication service quality requirements may include

more dimensions, and communication latency and diverse base station channel allocation strategies will also affect the results of cooperative planning.

What is the equipment composition of a 5G communication base station?

Figure 1 illustrates the equipment composition of a typical 5G communication base station, which mainly consists of 2 aspects: a communication unit and a power supply unit.

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