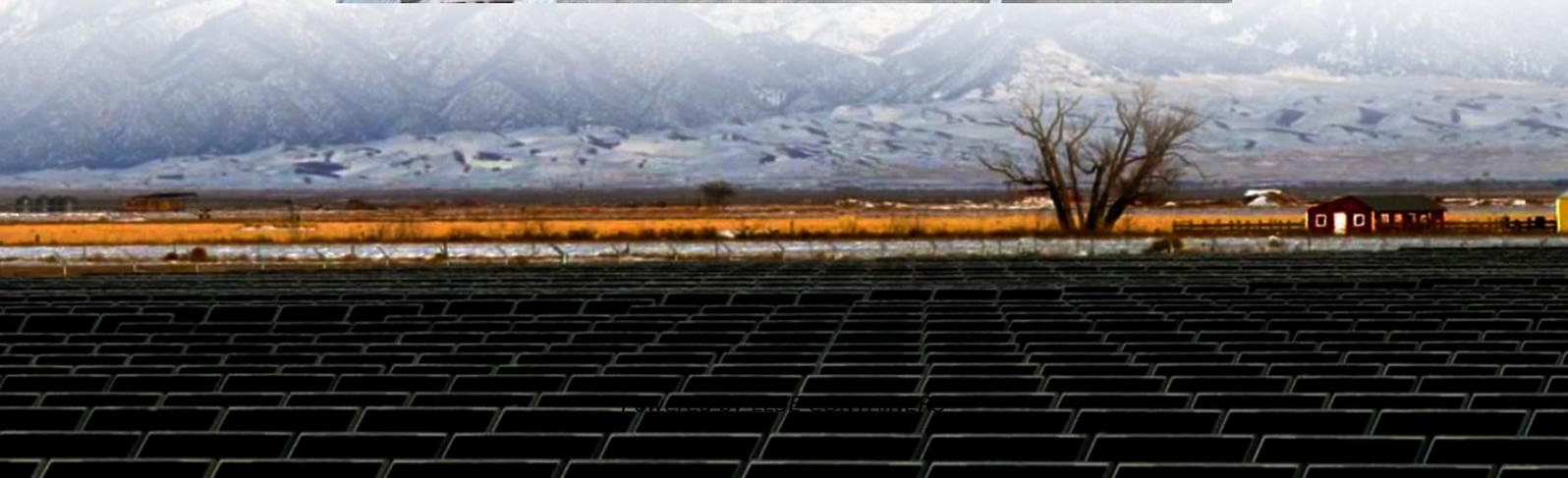


5g solar container communication station EMS construction suggestions





Overview

The emergence of ultra-dense 5G networks and a large number of connected devices will bring with them significant increases in energy consumption, operating costs, and CO2 emissions. At the same time,

Can EMC communicate with a 5G network?

However, the communication operator builds the BS to complement the 5G signal, and the establishment of a communication BS does not mean the establishment of a dedicated power wireless network. EMC can also communicate by accessing a normal 5G network but at a reduced reliability and transmission rate.

What is the access mechanism between EMCs and BSS?

To describe the access mechanism between the EMCs and the BSs, we introduce an $N_{bs} \times N_{mg}$ connection matrix A , where N_{mg} is the EMCs number and N_{bs} is the number of power towers which is also the number of candidate locations for base stations. It is not necessary for all power towers to be selected as communication power sharing towers.

How many 5G Bs are there in China?

China has deployed 690,000 5G BSs, and the number of terminal connections exceeds 180 million.

How many Bs can an EMC access?

Constraint (6) means that each EMC can access only one BS. Constraint (7) means that the number of EMCs accessing BS n is equal to the total state variables of the n th column of the matrix A . The capacity of each BS is D_{cap} .



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