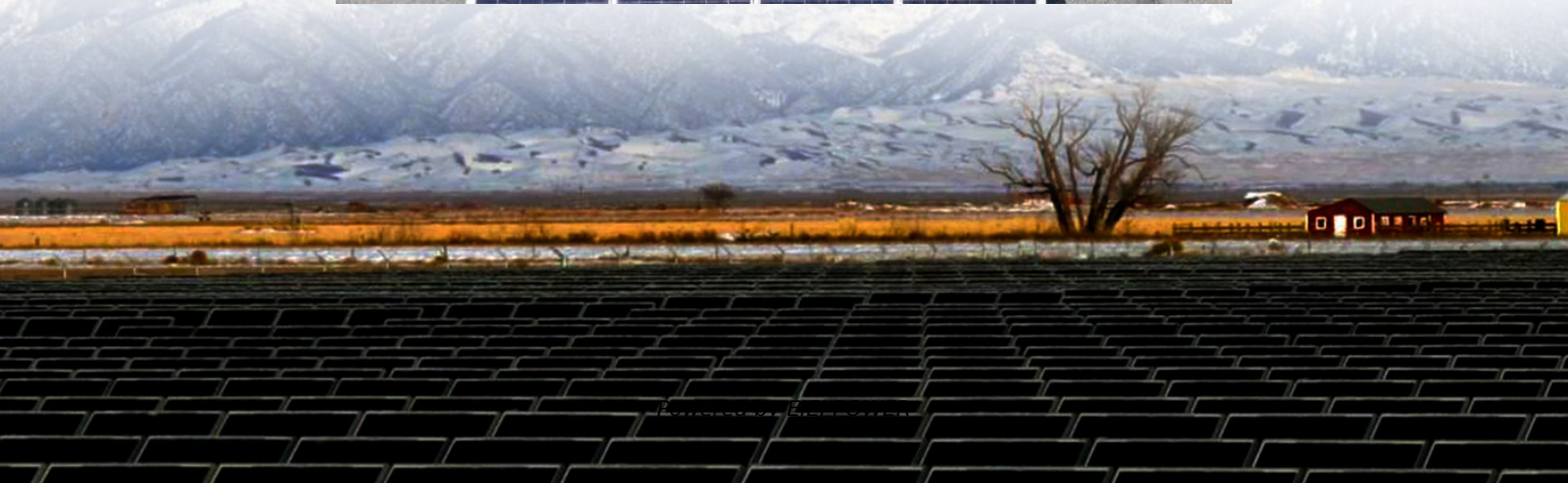


4g base station energy storage ESS power and communication distance





Overview

Do small cell base stations consume more power?

Base line small cell base station In cellular networks, to meet the increasing demand of high-data-rate for wireless applications, small cell BSs provide a promising and feasible approach but that consumes more power. The base line of small cell BSs is shown in Fig. 1.

How to reduce power consumption in 5G small cell BS?

To get the energy efficiency, in this research work, we have addressed the total power consumption and delay of User Requests (URs) in the small cell as well as 5G small cell BSs with sleeping strategy and N limited scheme. One of the effective ways to reduce the power consumption is introduce BSs sleeping strategy.

Can a super dense small cell heterogeneous network provide data speeds above 1 Gbps?

In 5G the use of super dense small cell heterogeneous networks is one of the most favourable alternatives to provide services with data speeds above 1 Gbps . By using OFDMA scheme, Wang et al. made a balance between energy efficiency and high bandwidth utilization of 5G small cell BSs.

Does Sleeping Strategy save power in 5G heterogeneous small cell BS?

In , Hawasli and Colak used sleeping strategy in 5G heterogeneous small cell BSs to optimize the power consumption. They displayed that by applying sleeping strategy and their three proposed algorithms can save about \ (20\%) power daily in 5G heterogeneous small cell BSs.



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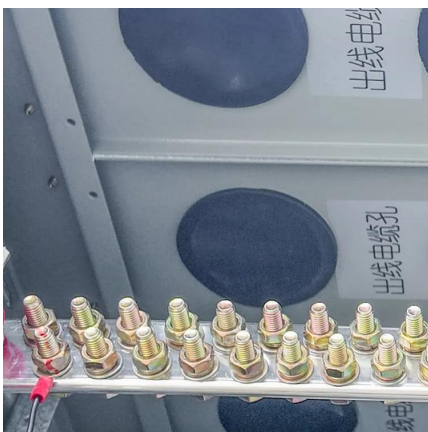


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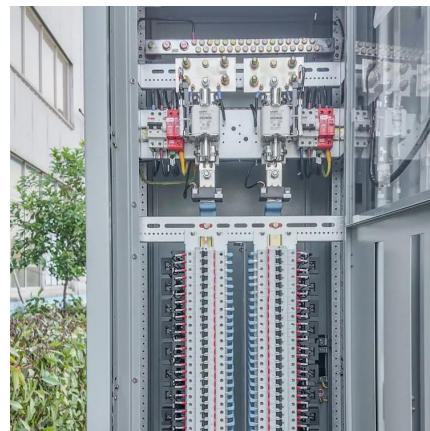
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