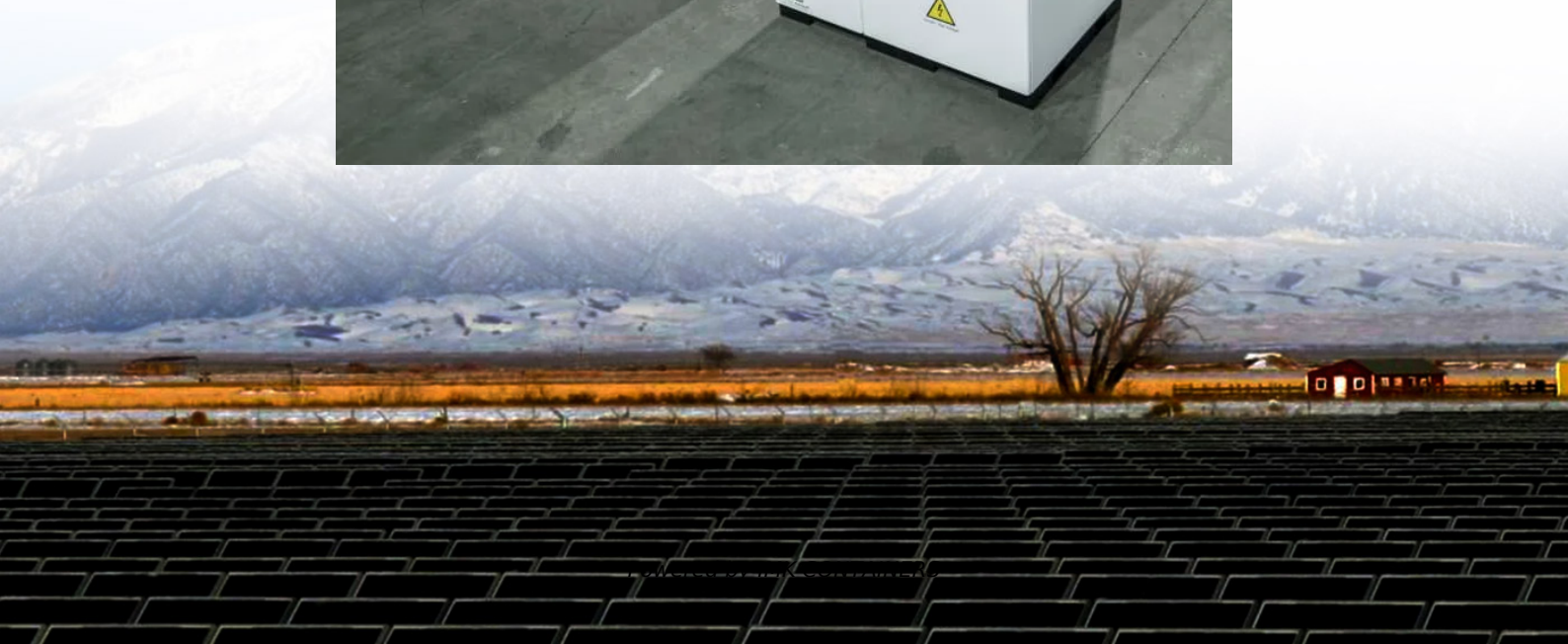


5g communication can be deployed through micro base stations





Overview

The increasing energy consumption is a legacy of the fast improvement of ICT (Information and Communication Technology). It is also contrary to the current energy conservation and emission reduction con.

What is 5G & how does it affect a communication system?

The construction of the 5G network in the communication system can potentially change future life and is one of the most cutting-edge engineering fields today. The 5G base station is the core equipment of the 5G network, and the performance of the base station directly affects the deployment of the 5G network.

How are 5G base stations selected?

However, the selection of 5G base station locations is also influenced by local terrain and population distribution, and obstacles such as streets, buildings, and trees can significantly impact signal propagation.

What is a 5G deployment scheme & cooperative operation?

A deployment scheme and cooperative operation for optimizing the location of 5G macro and micro base stations under the considerations of both the cost and signal coverage. References is not available for this document.

How effective is 5G base station optimization in urban areas?

Comparison results of 5G base station optimization in general urban areas. As shown in Table 11, the algorithm proposed in this topic reduces the site construction cost by at least 13 %, improves the coverage by at least 5.4 %, and reduces the number of base stations by at least 17.6 % compared to other algorithms.



5g communication can be deployed through micro base stations



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Green communication also attracted widespread attention (Ghazzai and Kadri, 2016). Besides the macro base station, another small-size-simple layout base station named ...

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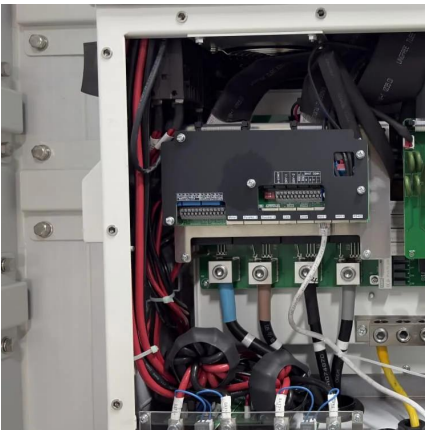
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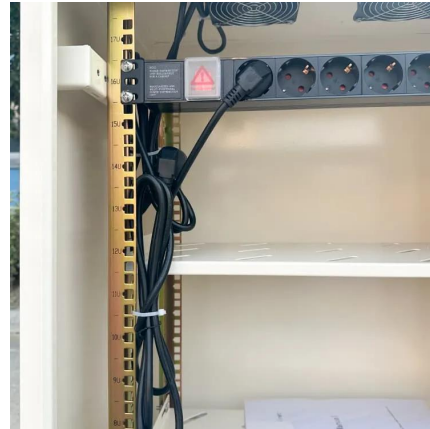
Bringing base-station intelligence into 5G operations



must ...

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