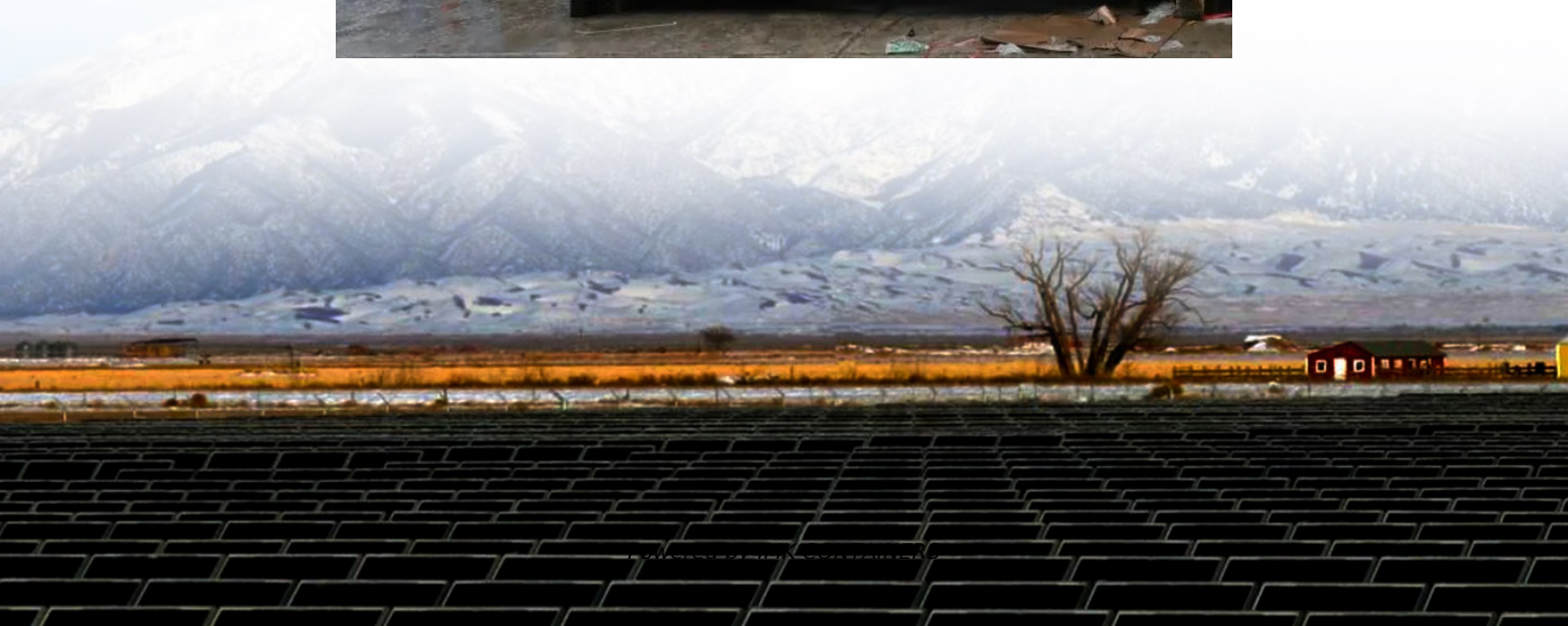


Communication distributed base station





Overview

What is distributed base station (DBS)?

Author to whom correspondence should be addressed. We propose a concept system termed distributed base station (DBS) which enables distributed transmit beamforming at large carrier wavelengths to achieve significant range extension and/or increased downlink data rate, providing a low-cost infrastructure for applications such as rural broadband.

Can a distributed base station provide broadband access to remote areas?

7. Conclusions The distributed base station concept presented in this paper is a promising approach for providing broadband access to remote areas, combining the benefits of massive MIMO with the superior propagation characteristics of large carrier wavelengths (e.g., white space frequencies).

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 are the basic parameters of a base station?

The fundamental parameters of the base stations are listed in Table 1. The energy storage battery for each base station has a rated capacity of 18 kWh, a maximum charge/discharge power of 3 kW, a SOC range from 10% to 90%, and an efficiency of 0.85.



Communication distributed base station



[Distributed Base Station: A Concept System for Long ...](#)

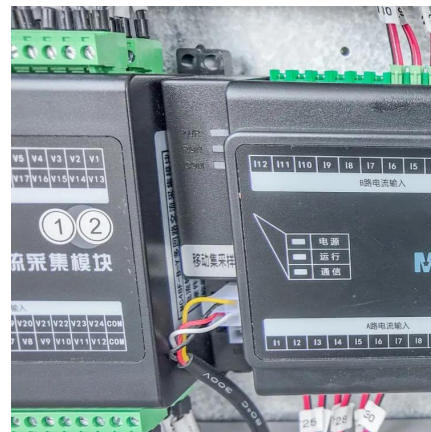
In this paper, we build on these advances for design of a concept system that we term distributed base station (DBS), targeting significant improvements in communication link ...

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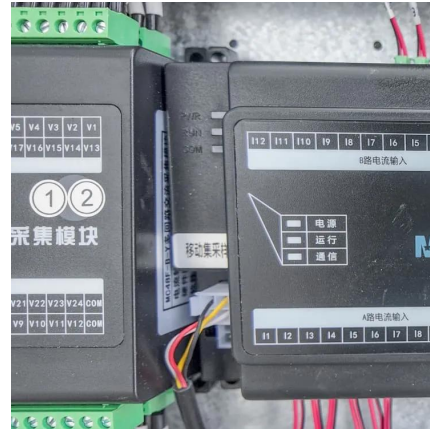




Collaborative optimization of distribution network and 5G base stations

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