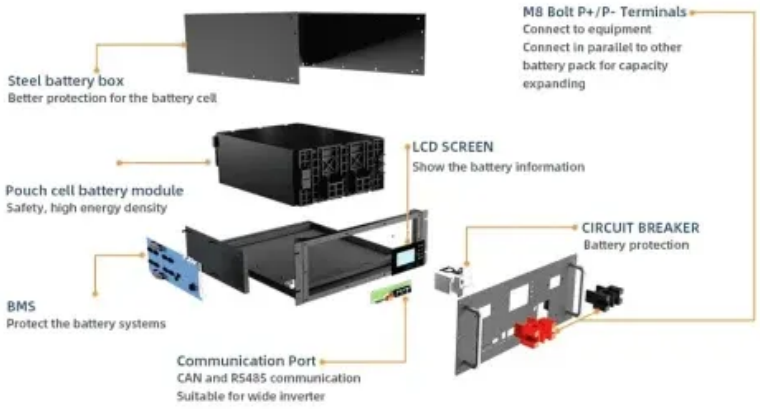
ContainerPower Energy Solutions

Energy methods for communication base stations at high levels



Overview

Various approaches have been proposed to reduce the energy consumption of an RBS, for instance, passive cooling techniques, energy-efficient backhaul solutions, and distributed base station design by using a remote radio head (RRH).

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In today’s 5G era, the energy efficiency (EE) of cellular base stations is crucial for sustainable communication. Recognizing this, Mobile Network Operators are actively prioritizing EE for both network maintenance and environmental stewardship in future cellular networks. The paper aims to provide.

ng state-of-the-art schemes h performance in decreasing the energy consumption, and pro bsequent generations of mobile communication networks [1]–[3]. In addition to serving users with ever increasing data rates, novel applicati ns require very low latency connections and extreme reliability.

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It is shown that novel architecture and advanced methods allow for significant improvement of the energy efficiency (EE) of wireless systems [2]. For this it is necessary to extend the study to the system/network level. Network energy-saving techniques tune the parameters and protocols of networks.

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