

Thimphu Communication Green Base Station Room Solution





Overview

What is a green base station solution?

The green base station solution involves base station system architecture, base station form, power saving technologies, and application of green technologies. Using SDR-based architecture and distributed base stations is a different approach to traditional multiband multimode network construction.

Are green base stations a problem?

As society grows increasingly more aware of green energy sources, governments also start modifying their power rules to support them. As a result, problems with green base stations became the focus of a significant amount of recent ICT research efforts .

Can base stations reduce energy consumption while maintaining quality of service (QoS)?

Liu et al. , this research proposes a sleeping algorithm for base stations (BSs) in wireless access networks to reduce energy consumption while maintaining quality of service (QoS). The algorithm relies on location data from user equipment (UE) which is sent to the mobility management entity or serving gateway (MME/S-GW).

Are baseband transceiver components suitable for the 3GPP NR system?

Concerns about sustainability have arisen as a result of the substantial rise in energy usage in wireless communications brought about by the quick development of 5G and 6G networks . To address this, the authors of this study developed baseband transceiver components for the 3GPP NR system.



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