

ContainerPower Energy Solutions

Communication Green Base Station Fan Distribution



Overview

This paper proposes a novel ventilation cooling system of communication base station (CBS), which combines with the chimney ventilation and the air conditioner cooling. Stack effect is employed to e.

Are green cellular base stations sustainable?

This study presents an overview of sustainable and green cellular base stations (BSs), which account for most of the energy consumed in cellular networks. We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research over the past decade.

What is green communication?

Green communication is a major prospect of the next-generation wireless networks. In conventional 5G base stations with active cooling, energy consumption caused by air conditioning typically amounts to more than 20% of the total .

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 .

What is the energy consumption of 5G communication base stations?

Overall, 5G communication base stations' energy consumption comprises static and dynamic power consumption . Among them, static power consumption pertains to the reduction in energy required in 5G communication base stations that remains constant regardless of service load or output transmission power.

What is a passive cooled base station (PCBs)?

Branded as ultra-lightweight radio or ultra-lean sites -, passively cooled base

stations (PCBSs) represent a promising solution for bringing down the energy consumption as well as network deployment cost.

What is the equipment composition of a 5G communication base station?

Figure 1 illustrates the equipment composition of a typical 5G communication base station, which mainly consists of 2 aspects: a communication unit and a power supply unit.

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