

Communication green base station cooling installation





Overview

Are passive cooled base stations effective?

Abstract—Passively cooled base stations (PCBSs) offer low deployment cost and energy consumption for the next generation networks. By its nature, however, dealing with the thermal issue becomes crucial. For an outdoor PCBS, a major challenge is that the heat dissipation is uncertain over time.

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 .

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.

Why is temperature control important in unattended mobile base stations and cell towers?

Due to the limited access for repair and maintenance of base station and cell towers, long life operation is required Temperature control of sensitive telecom electronics in unattended mobile base stations and cell towers is vital for the operation of primary and back-up systems.



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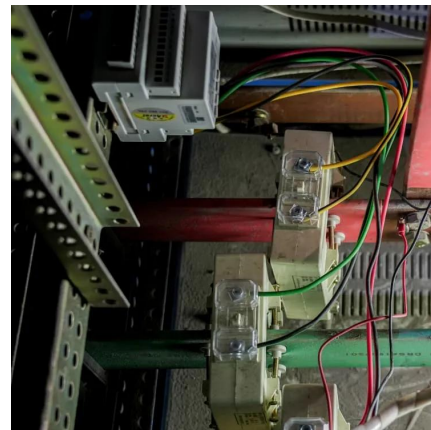


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