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Title: Reduction of power load of communication base stations

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To further explore the energy-saving potential of 5 G base stations, this paper proposes an energy-saving operation model for 5 G base stations that incorporates communication caching and ...

Abstract: With the maturity and large-scale deployment of 5G technology, the proportion of energy consumption of base stations in the smart grid is increasing, and there is an urgent need to reduce ...

This has been motivated by the need to reduce both the carbon footprint of mobile communications and the network operational expenditure (OPEX). Furthermore, the recent rise in ...

To extend the usage time of MDs and improve customer satisfaction levels, this research study, for the first time, studies the influence of different deployment strategies of a few low-power ...

With the large-scale deployment of 5G mobile communication systems, while the network offers faster rates, greater capacity, and more extensive connectivity, the high-power ...

In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable power supplies. This ...

This dense deployment also ends up saving the power cost of transmitting at higher signal levels, since the smaller base stations need to blast lesser power over the air.

Therefore, this paper investigates changes in the instantaneous power consumption of GSM (Global System for Mobile Communications) and UMTS (Universal Mobile Telecommunications System) ...

The AI-driven network energy saving solution can forecast the traffic load of base stations based on historical traffic load, service type, site coverage and user behaviors.



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