

Electromagnetic battery energy saving for communication base stations

With circuits based on the power semiconductor AlScN, Fraunhofer IAF is developing energy-efficient components for a novel edge-cloud mobile radio 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.

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 ...

In the Internet of things (IoT), the energy-saving of battery-powered IoT terminal is a key problem. To address it, a novel transceiver is proposed, and a transmission scheme is presented by ...

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 ...

This paper provides an overview on power saving techniques supported by 5G NR standards according to the current 5G standardization progress. It provides the 5G evolution path of the power saving ...

In response to the current widespread issue of high energy consumption in 5G base stations, this article conducts overall design, hardware design, and software design of the base station energy-saving ...

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Aiming at minimizing the base station (BS) energy consumption under low and medium load scenarios, the 3GPP recently completed a Release 18 study on energy savi

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