



# Customization Process for Energy-Saving Optical Splitter for 5G Base Stations

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

We formulate an optimization problem for the proposed energy saving scheme and obtain the solution using particle swarm optimization (PSO).

This Supplement examines energy-saving technology for fifth generation (5G) base stations (BSs).

Energy efficiency is a top priority for CSPs. Discover how Ericsson's products and solutions can improve the energy efficiency and performance of 5G networks.

RIC enables the base station to automatically apply more energy-efficient sleep for a longer period. Near-RT RIC short-term loop with AI can minimize the risk of serious QoS degradations due to ...

Abstract 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 ...

This Recommendation identifies energy saving potentials, describes energy saving principles and technologies for 5G RAN and related equipment, and provides best practice recommendations on ...

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 ...

The objective is to reduce gNB energy use by operating the radios more efficiently than today without compromising service quality. The key techniques of 5G-Advanced allow the gNB to adapt active ...



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