Congo Base Station Energy Management System Room

How to make base station (BS) green and energy efficient?

This paper aims to consolidate the work carried out in making base station (BS) green and energy efficient by integrating renewable energy sources (RES). Clean and green technologies are mandatory for reduction of carbon footprint in future cellular networks.

What are the components of a base station?

A typical base station consists of different sub-systems which can consume energy as shown in Fig. 4. These sub-systems include baseband (BB) processors, transceiver (TRX) (comprising power amplifier (PA), RF transmitter and receiver), feeder cable and antennas, and air conditioner (Ambrosy et al., 2011).

What constraints are considered in energy cooperation schemes?

The various constraints considered in energy cooperation schemes pertain to the battery's state of charge,QoS defined,min/max data rates and energy balance at sitesi.e.,net energy in vs net energy out. In addition to energy cooperation between BS sites,we also find controlled energy transfer from network to grid,particularly smart grid.

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proportionality existed between carried traffic and consumed power. Unfortunately, this is not true: the power versus load profiles of base stations, a d of the entire network, exhibit very limited ...

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