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How about the Base Station Energy Management System Design major

Overview

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 is energy storage model?

Energy storage model is defined in terms of battery parameters such as capacity (AH), battery charging losses, charging rate, the system load, etc.

What is energy resource management?

Energy resource management involve schemes such as energy cooperation and optimization of different energy sources (Oh et al., 2013). Multi-radio access network technologies (Multi-RAT) management and novel paradigms for delay tolerant services are also some resource management techniques.

How does a 3 kW BS system work?

In (Hashimoto et al., 2003), a 3 kW BS at an island is powered by 7.6 kW PV panels and and 8 kW wind turbine with 177 KWh back up batteries. Their system comprises a wind generator and cylindrical photovoltaic modules that are mounted onto the wind generator pole to save installation space and cost.

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