

SolarTech Power Solutions

Cost of Israel Base Station Energy Management System



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 intelligent energy management scheme?

An intelligent energy management scheme is shown which reduces coverage when battery back-up drops below a certain threshold. The algorithm selects one of pre-determined traffic patterns as per weather forecast data and controls the charging of the batteries as well.

3.5. Summary of resource management in singular configuration

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