

## SolarTech Power Solutions

# Mobile small communication base station energy method



## Overview

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Can micro base stations improve network coverage?

Conferences > 2019 IEEE SmartWorld, Ubiquit. With the advent of the 5G era, mobile users have higher requirements for network performance, and the expansion of network coverage has become an inevitable trend. Deploying micro base stations (BSs) is regarded as one of feasible approaches to enhance network coverage.

What are the standardized energy-saving metrics for a base station?

(1) Energy-saving reward: after choosing a shallower sleep strategy for a base station, the system may save more energy if a deeper sleep mode can be chosen, and in this paper, the standardized energy-saving metrics are defined as (18)  $R_i = E_{SM} - E_{SM}^0$ ,  $E_{SM} = i E_{SM} - E_{SM}^0$ ,  $E_{SM} = 0$ ,  $E_{SM} = 3$ .

What is MIMO & SBS?

By deploying a large number of antennas at the wireless base station, the massive MIMO technique realizes high-precision directionality of signals and dramatically improves the throughput and coverage of wireless networks. With the intensive deployment of SBS, the energy consumption of network systems is increasing dramatically.

How can mobile network architecture contribute to green networking?

The representation of the mobile network architecture along with the expanded view of the 5G base station has been depicted in Fig. 5. Improving hardware components can contribute toward green networking. It entails reducing BS's energy consumption by using energy-efficient hardware.

How to conserve energy in a wireless sensor network?

Various strategies, such as duty cycle scheduling, EE routing, energy harvesting and EE Medium Access Control can be used to conserve energy in a wireless sensor network. Mobile videos are accountable for the rigorous

consumption of energy as they involve the usage of screen display, CPU, audio/video decoder and network connectivity.

What is threshold-based base station sleep strategy?

Threshold-based base station sleep strategy is a common base station management method in wireless communication networks, which adjusts the operating state of the base station to save energy and improve resource utilization by dynamically setting appropriate thresholds.

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