



SolarTech Power Solutions

Sri Lankan-style communication base station energy method



Overview

How can a base station save energy?

A significant saving of energy (from both environmental and economic point of view) can be obtained by implementing the energy efficiency measures like improving transmitter efficiency, upgrading system features and using alternative sources and energy saving during low traffic of base stations [15].

Does a green wireless network reduce the energy consumption of base stations?

The measured results revealed that the proposed model reduces the energy consumption of base stations by up to 18.8% as compared with the traditional static BSs, which is a step forward towards the implementation of green wireless communication.

1. Introduction.
What are the different energy saving techniques in cellular networks?

The different energy saving techniques in cellular networks are the efficient hardware design, hybrid energy sources, network planning & management and energy- aware radio technology. In this study, DTST has been studied critically which is a promising technique to save energy and is the main theme of this research.

How to monitor energy consumption of Base Transceiver system during low traffic?

Energy consumption of base transceiver system during low traffic is monitored. Wastage of energy consumption is monitored during low traffic. An algorithm for dynamic transmitter shutdown technique is proposed. Pilot test is conducted on dynamic transmitter shut down technique by using proposed algorithm.

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