

ContainerPower Energy Solutions

Power Communication Base Station EMS Network Optimization Solution



Overview

What is the access mechanism between EMCs and BSS?

To describe the access mechanism between the EMCs and the BSs, we introduce an $N_{b s} \times N_{m g}$ connection matrix A , where $N_{m g}$ is the EMCs number and $N_{b s}$ is the number of power towers which is also the number of candidate locations for base stations. It is not necessary for all power towers to be selected as communication power sharing towers.

How does BTS-BSC communicate with the Element Management System (EMS)?

After collecting the data, the BSC sends it to the element management system (EMS). The EMS does not depend on the BTS-BSC transmission mode; while ATM, TDM, and IP all support in-band transmission. As a result, the MCU can communicate transparently with the EMS through the existing BTS-BSC channel.

What is a distributed collaborative optimization approach for 5G base stations?

In this paper, a distributed collaborative optimization approach is proposed for power distribution and communication networks with 5G base stations. Firstly, the model of 5G base stations considering communication load demand migration and energy storage dynamic backup is established.

What are the basic parameters of a base station?

The fundamental parameters of the base stations are listed in Table 1. The energy storage battery for each base station has a rated capacity of 18 kWh, a maximum charge/discharge power of 3 kW, a SOC range from 10% to 90%, and an efficiency of 0.85.

How do urban radio stations manage power & environmental management?

For urban radio sites, some operators use a multi-layer control system for

their power & environmental management. Each city has a power & environmental monitoring system which reports to a higher-level monitoring center.

How can EMS improve power & environmental monitoring?

Traditionally, power supply modules and network equipment are managed separately. Through EMS, operators can turn off a carrier but not a power module. Integration of the EMS and the power & environmental monitoring system can help solve this problem and enhance maintenance efficiency.

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