PDEOZE PowerContainer

Communication Base Station EMS Environmental Monitoring

Overview

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.

How does an EMS monitoring system work?

The monitoring system provides an interface to the EMS, through which the EMS collects data; the EMS can then manage alarms and issue work commands in a centralized manner. In this context, operators can make better decisions by understanding both service loads and energy efficiency.

Why are base stations important?

By Yang Ji Base stations are the key energy consumers on any mobile network; their monitoring and upgrade are essential if operators are to compete.

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.

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