

Base station distribution box transformation innovation





Overview

How do technology advancements affect substation operations?

Technology advancements focus on improved safety and remote management through IIoT and communication platforms. Smart devices and automation systems support remotely manageable substation operations. The digital transformation of substations can improve operations and unlock long-term adaptability.

How do substation modernization patents work?

Substations are using digital twin platforms, machine learning, robotics, and other high-tech tools to increase stability and efficiency. Substation modernization patents are on the rise, according to GlobalData, as utilities integrate advanced technologies to digitize and streamline their operations and enhance the stability of the power grid.

How do smart devices and automation systems support remote manageable substation operations?

Smart devices and automation systems support remotely manageable substation operations. The digital transformation of substations can improve operations and unlock long-term adaptability. Digital twin technologies, designed to produce a virtual representation of physical equipment and processes, continue to improve.

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.

What is the equipment composition of a 5G communication base station?

Figure 1 illustrates the equipment composition of a typical 5G communication



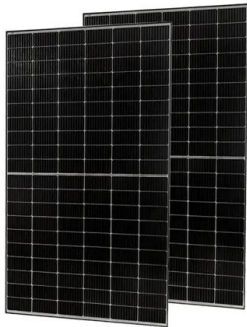
base station, which mainly consists of 2 aspects: a communication unit and a power supply unit.

What does ABB's IoT technology mean for a substation automation system?

Swedish-Swiss tech giant ABB is innovating an IIoT equipment and configuration method that stores twin data for substation automation systems and other industrial applications. The invention provides improved techniques to configure the data collection logic of IIoT devices paired with primary or secondary devices in substations.



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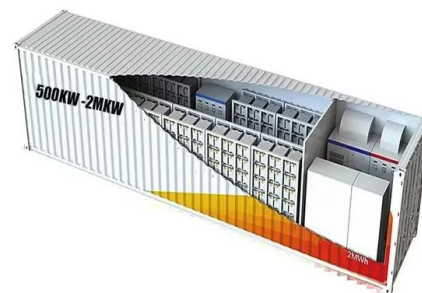
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Base Station System Structure

2 Base Station Background The intent of this section is to explore the role of base stations in communications systems, and to develop a reference model that can be used to describe and ...



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Figure 4 b shows the contour representation of base station locations, such that each base station is represented a point on a two-dimensional space which is ...

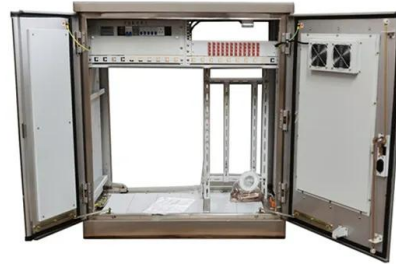
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