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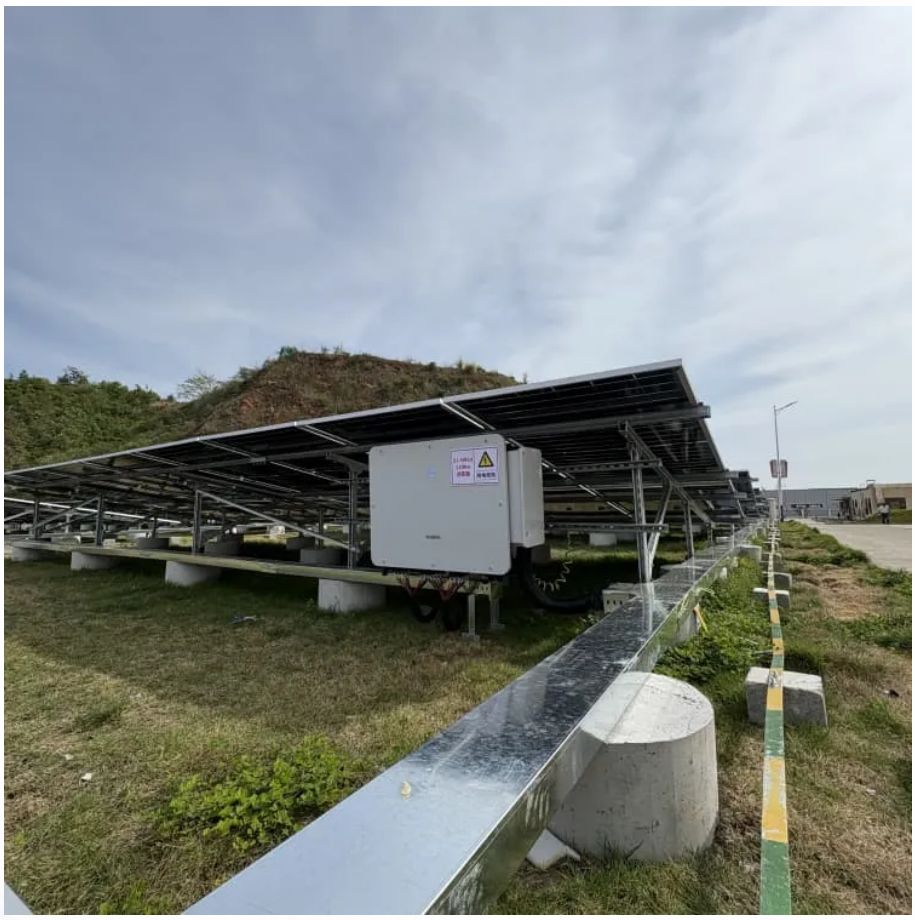
Energy method of rooftop integrated signal base station



Overview

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 = E S M = 0 E S M = i E S M = 0 E S M = 3.

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.

How does the energy consumption of radio base stations affect OPEX?

As the set of configurations gets larger the combi-nations of configurations on a hardware-software product, e.g., a 5G radio base station, increases quickly. As a consequence tractability decreases and optimization becomes harder. Figure 1.1: The effect of the energy consumption of radio base stations on the operator OPEX .

Can a base station sleep strategy reduce energy consumption in UDN systems?

The goal of this paper is to find a base station sleep strategy in UDN systems that reduces the total system energy consumption while being able to guarantee QoS.

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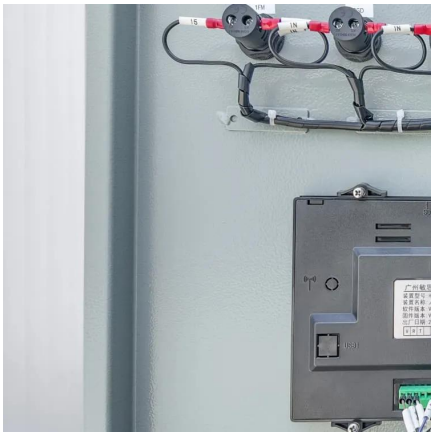

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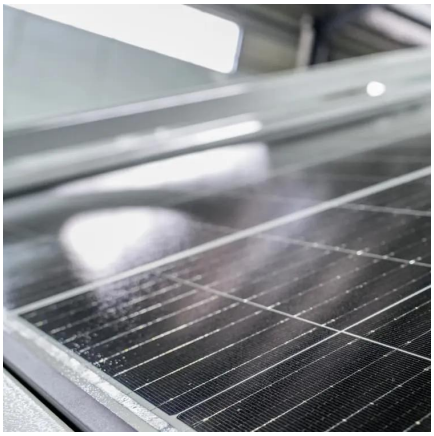

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