

Alofi Super Base Station Power System





Overview

How to optimize base station operating modes?

The method for optimizing base station operating modes does not require any changes to the system's original power supply structure. The purpose of energy conservation is achieved by adjusting the operating status of base stations [5, 6] and even shutting down some base stations according to actual user needs [7, 8, 9].

Can a base station power system be optimized according to local conditions?

The optimization of PV and ESS setup according to local conditions has a direct impact on the economic and ecological benefits of the base station power system. An improved base station power system model is proposed in this paper, which takes into consideration the behavior of converters.

Can a base station power system model be improved?

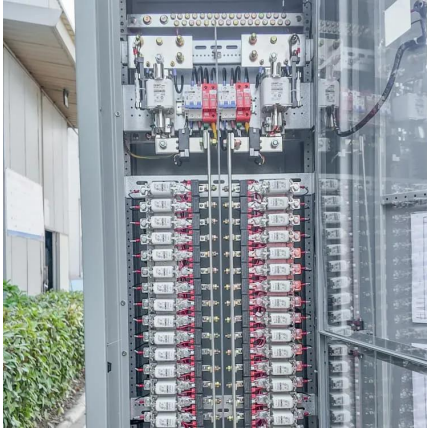
An improved base station power system model is proposed in this paper, which takes into consideration the behavior of converters. And through this, a multi-faceted assessment criterion that considers both economic and ecological factors is established.

How ESS is connected to a base station?

Scheme 1: The classic scheme in which the base stations are only powered by grid electricity. Scheme 2: The PV modules are connected in series to obtain higher voltage and are connected to the AC bus of the base station through an inverter with MPPT function. ESS is connected to the 48 V DC bus through bidirectional DC/DC converter.



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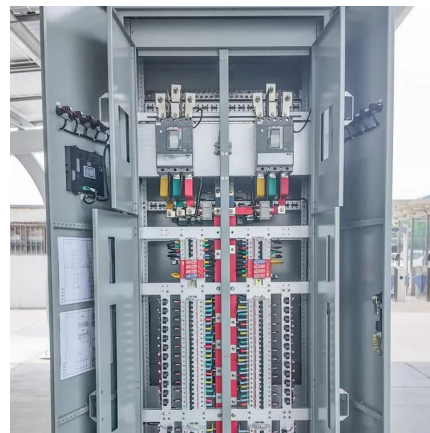
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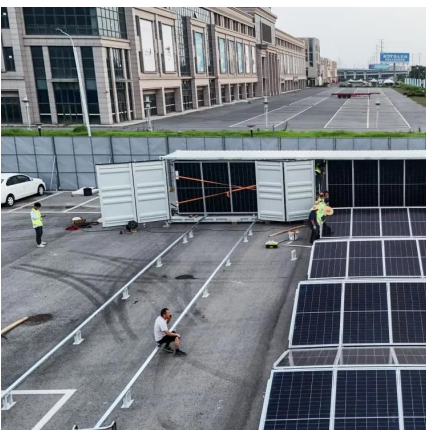
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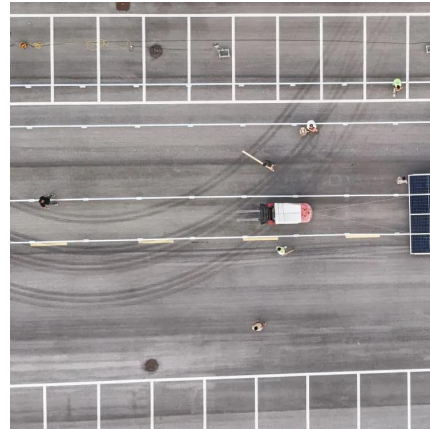
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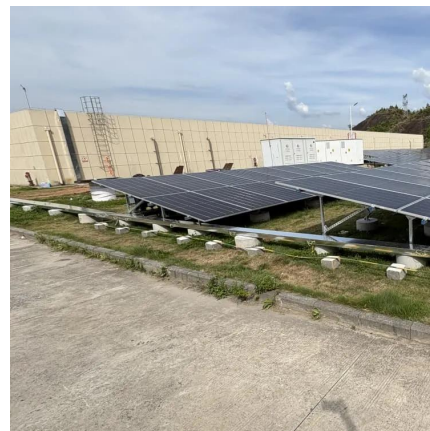
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