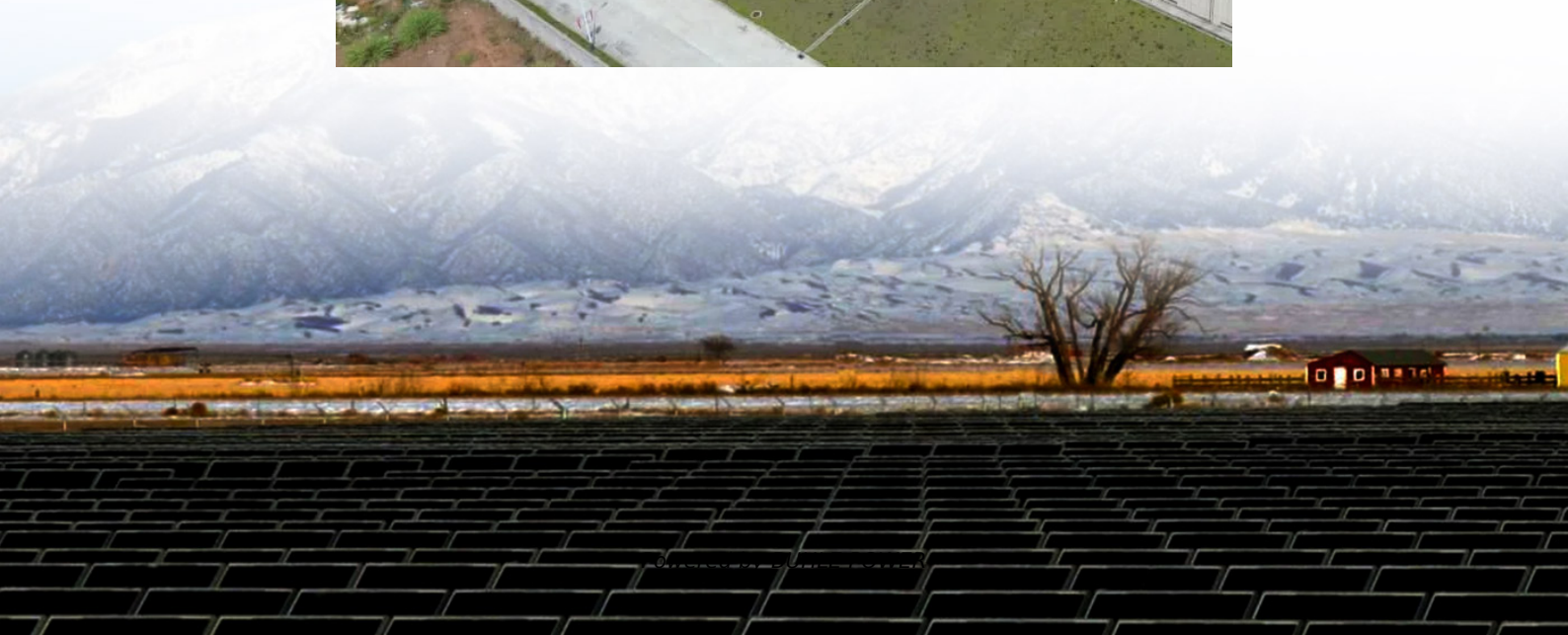


Service life of base station communication equipment





Overview

What is an indoor base station?

An indoor base station comprises a communication room accommodating various communication equipment and a communication tower responsible for transmitting and receiving information. The communication room is equipped with wireless communication devices, transmission equipment, power supply equipment, air conditioning, and cable routing racks.

What is the main function of a base station?

The main functionality of the base station is primarily dependent on the wireless equipment, transmission equipment, and antenna on the tower. The normal operation of the base station relies on the coordination of the power system.

What is a typical communication equipment room (ground base station)?

Fig. 2. Layout of the typical communication room (Ground base station). 2.1.2. Role of Each Component The main forms of the communication equipment room are civil construction room, color-coated steel room [33, 34], and integrated (container) room.

Do communication base stations perform post-earthquake functionality using Bayesian network?

A method to evaluate the post-earthquake functionality of communication base stations using Bayesian network is developed. The dependence between the equipment and its hosting building structure, and the impact of power outages are considered. The method is validated using seismic damage data from the Ludian Earthquake.



Service life of base station communication equipment



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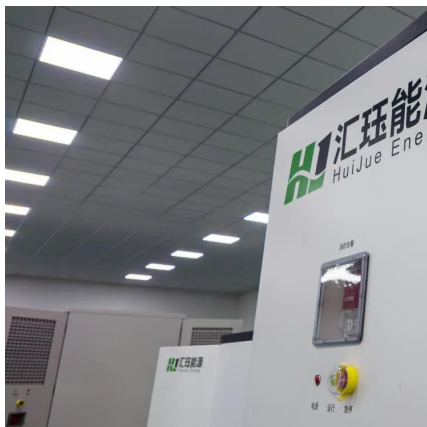
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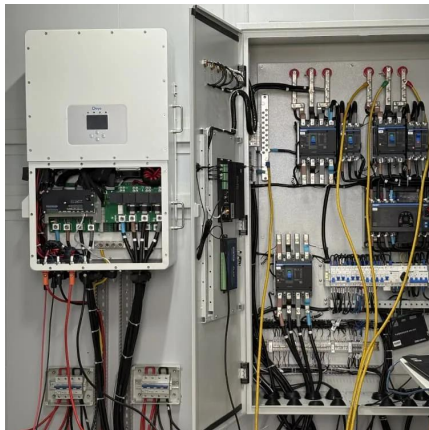
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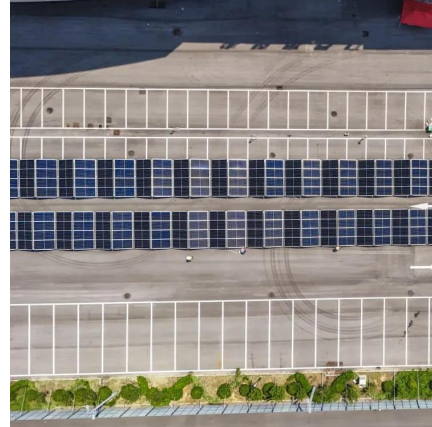
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