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5g base station installation of small wind power





Overview

Are high wind loads a problem for a 5G base station?

Very high wind loads represent one of the major problems for the ultralarge-scale 5G base station array at the sub-6 GHz band, where dozens of or hundreds of antennas are used. An ultracompact dual-polarized cross-dipole antenna with an extremely small overall projected area is presented.

Can a low wind load antenna meet the requirements for 5G base stations?

The above radiation performance proves that the proposed low wind load antenna with a DGS and metal mesh reflector can realize projected area reduction and simultaneously meet the requirements for 5G base stations. A comparison between the proposed antenna and some previous designs is presented in Table II to display the.

How much power does a 5G base station use?

Each nation has a different 5G strategy. For 5G, China uses 3.5GHz as the frequency. Then, a 5G base station resembles a 4G system, but it's on a much larger scale. For sub-6GHz in 5G, let's say you have a macro base station. The power levels at the antenna range from 40 watts, 80 watts or 100 watts.

What is a 5G base station?

In the 5G era, main-stream base station sites have evolved into the form of a baseband unit (BBU) plus an active antenna unit (AAU). The high requirements on the performance of mMIMO lead to a sharp increase in the number of base station antennas, which negatively affects the production and installation of AAUs.



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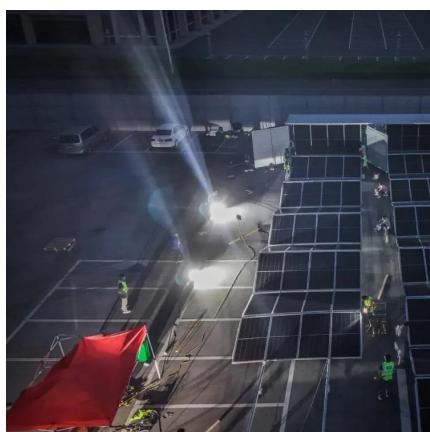


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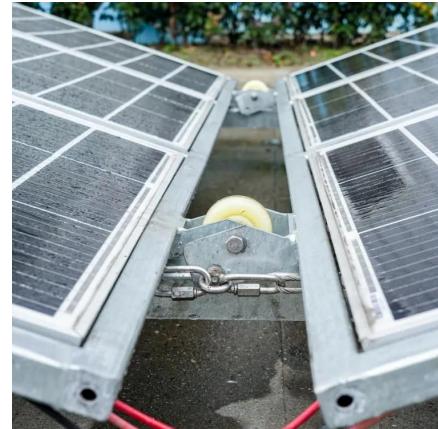
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