

Does the 5g micro base station need to be connected to electricity





Overview

The increasing energy consumption is a legacy of the fast improvement of ICT (Information and Communication Technology). It is also contrary to the current energy conservation and emission reduction con.

How can a 5G base station be truly global?

To develop truly global 5G coverage, base stations will need to be installed across the world in some extremely inhospitable environments. This means that the new generation of base stations needs to be designed with environmental challenges and extreme weather in mind, such as the effects of humidity, heat and wind.

Why are small cells a new part of 5G?

The need to increase the number of base stations to provide wider and more dense coverage has led to the creation of small cells. Small cells are a new part of the 5G platform that increase network capacity and speed, while also having a lower deployment cost than macrocells.

Should a 5G base station be able to withstand a hot climate?

Both the 5G cells and the base station should remain functional even when subjected to severely wet and humid conditions. Even in extremely hot climates, 5G components must remain reliable, stable and energy efficient to prevent downtime, malfunctions and reduction in lifespan.

How does mobile data traffic affect the energy consumption of 5G base stations?

The explosive growth of mobile data traffic has resulted in a significant increase in the energy consumption of 5G base stations (BSs).



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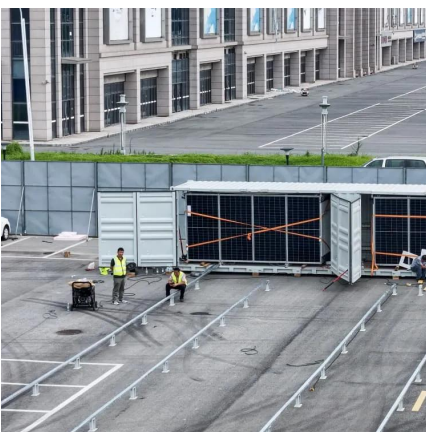


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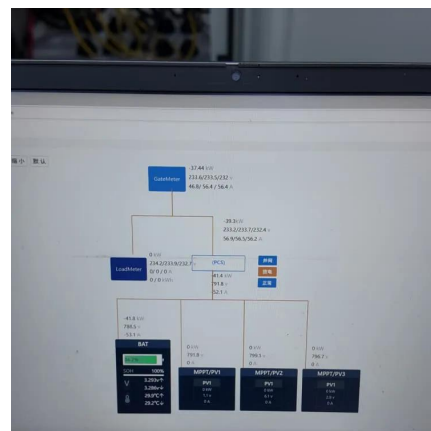
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