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Is hybrid energy 5g base station investment reliable





Overview

How will a 5G base station affect energy costs?

According to the mobile telephone network (MTN), which is a multinational mobile telecommunications company, report (Walker, 2020), the dense layer of small cell and more antennas requirements will cause energy costs to grow because of up to twice or more power consumption of a 5G base station than the power of a 4G base station.

What are the advantages of RE in 5G mobile networks?

There are several potential advantages of RE in 5G mobile networks. First, for the network operator, RE can reduce the cost of energy consumption by deploying solar or wind energy base stations. RE enabled BSs can use solar energy for operation in the daytime, along with storing it in rechargeable batteries.

What is the new perspective in sustainable 5G networks?

The new perspective in sustainable 5G networks may lie in determining a solution for the optimal assessment of renewable energy sources for SCBS, the development of a system that enables the efficient dispatch of surplus energy among SCBSs and the designing of efficient energy flow control algorithms.

How to evaluate a 5G energy-optimised network?

To properly examine an energy-optimised network, it is very crucial to select the most suitable EE metric for 5G networks. EE is the ratio of transmitted bits for every joule of energy expended. Therefore, while measuring it, different perspectives need to be considered such as from the network or user's point of view.



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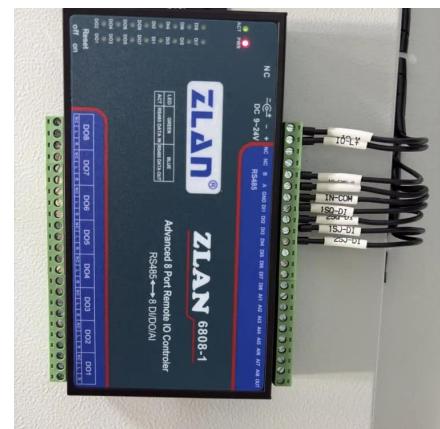
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