

Benefits of 5G base station power consumption to power plants





Overview

Can 5G reduce energy consumption?

However, the energy consumption of 5G networks is today a concern. In recent years, the design of new methods for decreasing the RAN power consumption has attracted interest from both the research community and standardization bodies, and many energy savings solutions have been proposed.

Is energy consumption a concern for 5G networks?

Abstract—The fifth generation of the Radio Access Network (RAN) has brought new services, technologies, and paradigms with the corresponding societal benefits. However, the energy consumption of 5G networks is today a concern.

Is artificial neural networks a good power consumption model for 5G AAUs?

In this paper, we present a power consumption model for 5G AAUs based on artificial neural networks. We demonstrate that this model achieves good estimation performance, and it is able to capture the benefits of energy saving when dealing with the complexity of multi-carrier base stations architectures.

Are cellular base stations a future-proof power model?

Debaillie, C. Desset, and F. Louagie, "A flexible and future-proof power model for cellular base stations," in IEEE 81st Vehicular Technology Conference (VTC Spring), 2015, pp. 1-7. S.



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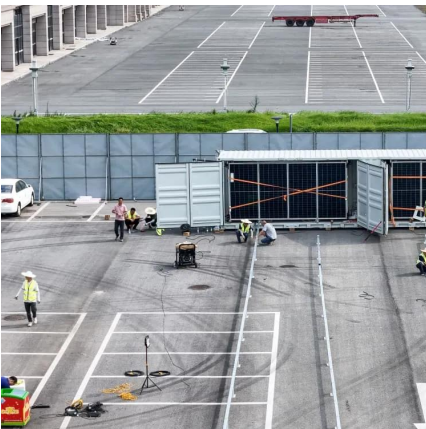


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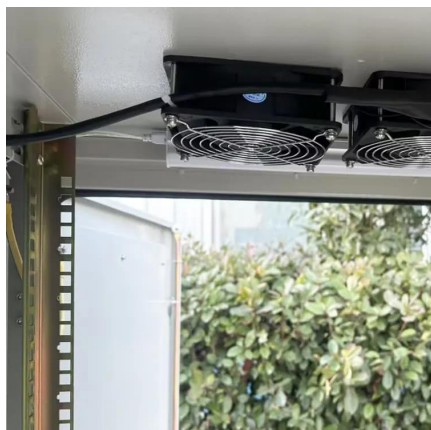
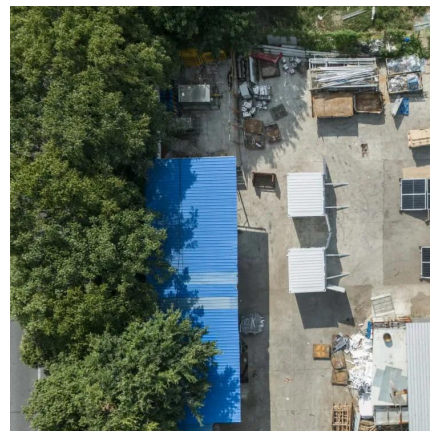


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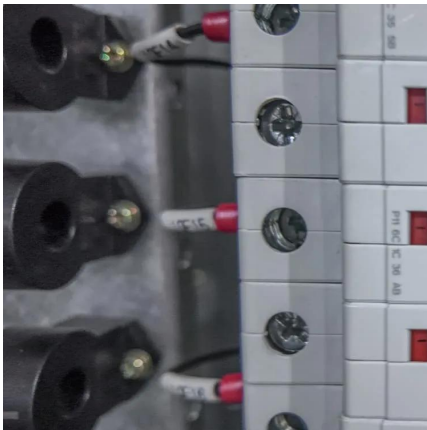
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