

Is 5g base station considered weak current





Overview

Do base stations dominate the energy consumption of the radio access network?

Furthermore, the base stations dominate the energy consumption of the radio access network. Therefore, it is reasonable to focus on the power consumption of the base stations first, while other aspects such as virtualization of compute in the 5G core or the energy consumption of user equipment should be considered at a later stage.

What should be considered in a 5G network?

The further completion of the map of power models (Fig. 2) and systematization of their features as well as the comparison is also part of the future work. Lastly, the aspects of computing (network function virtualization) and functional split options of the RAN need to be considered for 5G networks as well.

Should power consumption models be used in 5G networks?

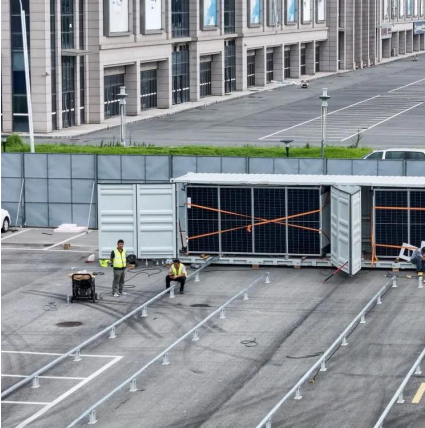
This restricts the potential use of the power models, as their validity and accuracy remain unclear. Future work includes the further development of the power consumption models to form a unified evaluation framework that enables the quantification and optimization of energy consumption and energy efficiency of 5G networks.

What is 3GPP base station model?

The central specification body of cellular networks, the 3GPP, presents a base station model to facilitate energy efficiency improvements for 3GPP Release 18 in . It is based on the user equipment power model of the 3GPP in structure, presentation, and approach.



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