



FTMRS SOLAR

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Overview

Why do we need a 5G base station?

The limited penetration capability of millimeter waves necessitates the deployment of significantly more 5G base stations (the next generation Node B, gNB) than their 4G counterparts to ensure network coverage. Notably, the power consumption of a gNB is very high, up to 3-4 times of the power consumption of a 4G base stations (BSs).

How will 4G and 5G change the world?

As the world transitions from 4G to 5G, the shift to these new, far more powerful networks will also require a shift in the way base stations are designed and configured.

How a 5G network can support a power system?

The 5G network and power system are coupled energetically by power feeders. Based on gNB-sleep actions and mode switching of their BESSs, 5G network can provide power support to the power system when the grid frequency deviation reaches the threshold.

Are 5G network operators motivated to cooperate with the power system?

On the one hand, 5G network operators are highly motivated to cooperate with the power system in energy matters, given that the numerous gNBs with their high energy consumption result in significant electricity bills that can be troublesome for the operators .



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