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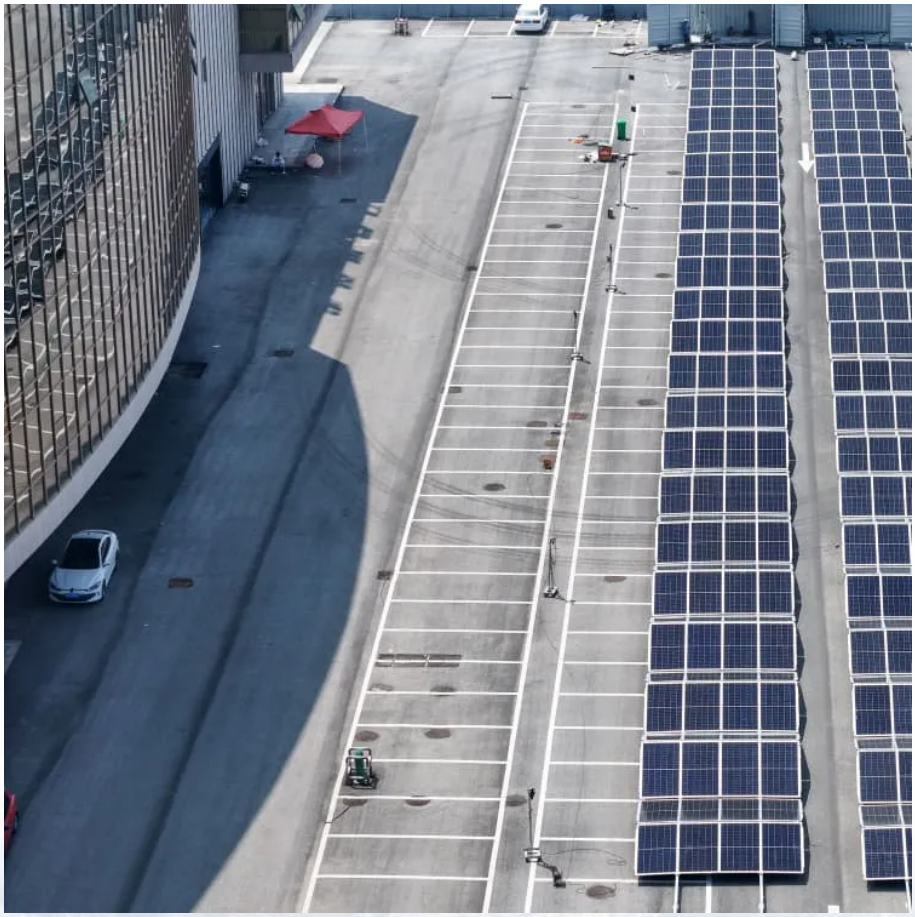
What are the EMSs for 5G communication base stations in Micronesia



Overview

What is 5G & how does it affect a communication system?

The construction of the 5G network in the communication system can potentially change future life and is one of the most cutting-edge engineering fields today. The 5G base station is the core equipment of the 5G network, and the performance of the base station directly affects the deployment of the 5G network.

Does location of cellular base stations affect 5G communication performance?

5G communication performance is highly correlated with the locations of cellular base stations (BSs). Many previous works have studied the placement of BSs, how.

Why is a 5G network a challenge?

5G networks deployment poses new challenges when evaluating human exposure to electromagnetic fields. Fast variation of the user load and beamforming techniques may cause large fluctuations of 5G base stations field level. They may be underestimated, resulting in compliance of base stations not fitting the requirements.

Does 5G signal exposure affect base station compliance?

This agrees with measurements done in other countries whose authors conclude that the exposure to 5G signals is limited , , , but this does not assure the base station compliance as full load situation should be considered for such assessment. It also shows that the increase in the EMF field is due to the induced data traffic.

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.

What is a 5G network & how does it work?

The roll-out of 5G networks necessarily implies the deployment of new base station equipment, including new radiating systems. These systems may be provided with massive multiple-input multiple-output (M−MIMO) capabilities, where up to a hundred antenna elements are used for beamforming.

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