

ContainerPower Energy Solutions

Communication 5G base station effect



Overview

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.

Will 5G increase the number of high-frequency base stations?

The introduction of the fifth generation (5G) of wireless communication will increase the number of high-frequency-powered base stations and other devices. The question is if such higher frequencies (in this review, 6–100 GHz, millimeter waves, MMW) can have a health impact.

What were the effects of a 5G base station?

After deployment of 5G base stations close to her living place she developed severe ill health including fatigue, dysesthesia, dizziness, balance disorder, and light sensitivity that all are included in the microwave syndrome. Also her 83 years old husband was affected, although to a minor extent.

Does 5G affect cognitive performance?

However, the available studies have not investigated the health effects resulting from exposure from the 5G mobile phone and base station antennas from 700 MHz to 30 GHz on the cognitive performance, well-being subjective symptoms, human physiological parameters, and EEG of adults.

How will 5G work?

At these higher frequencies, 5G networks will use a greater number of base stations and of connected objects. 5G will further employ beam-forming antennas to focus signals more efficiently towards the device in use, rather than having the signal spread in broad directions as in current base station

antennas.

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.

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