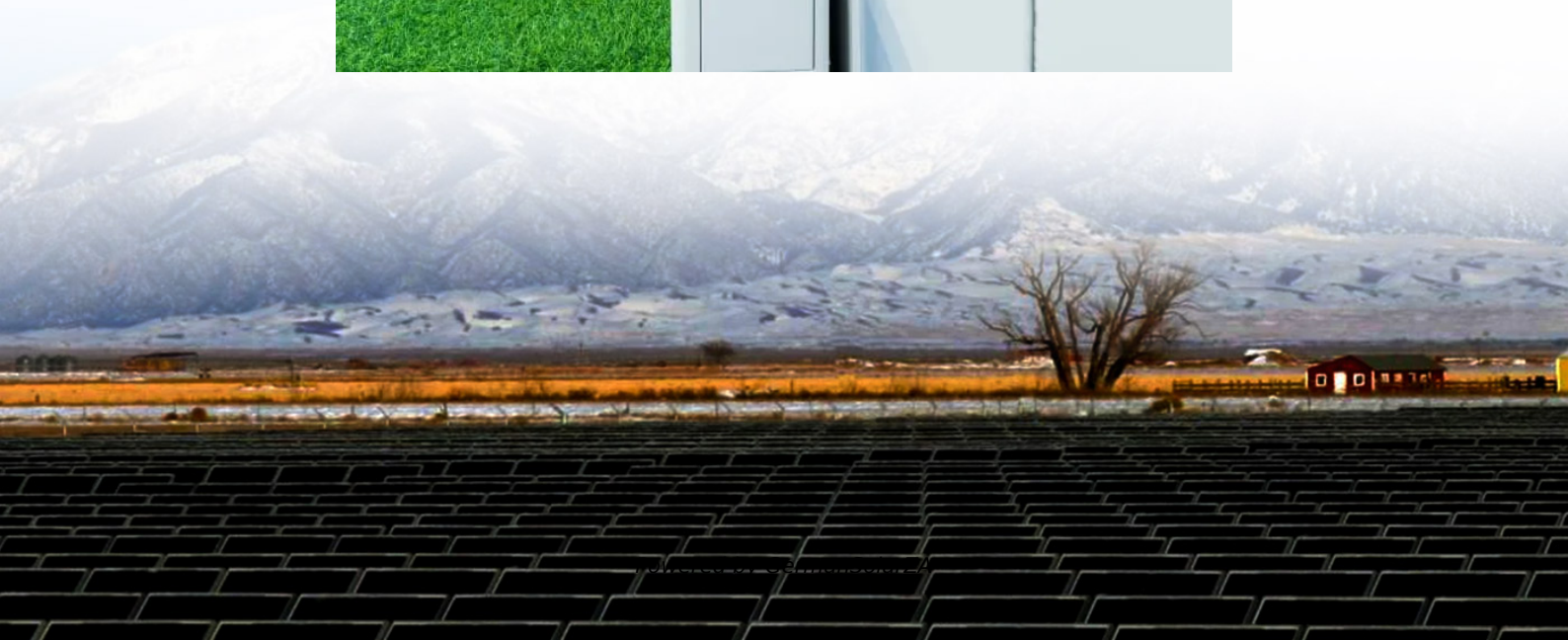


5g base station electromagnetic compatibility





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.

Do 5G base stations need a field meter?

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. Apparently, broadband field meters would not be adequate for measuring such environments.

Does a 5G base station increase field levels?

Adding the 5G systems does not significantly increase the overall field levels in the surroundings of the base station, in normal working conditions, compared to those of the previous generation. This has been checked during a measurement campaign in the surroundings of a 5G base station under operation.

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.



5g base station electromagnetic compatibility



ETSI TS 138 113 V18.4.0 (2025-04)

TECHNICAL SPECIFICATION 5G; NR; Base Station (BS) ElectroMagnetic Compatibility (EMC) (3GPP TS 38.113 version 18.4.0 Release 18) 3GPP TS 38.113 version 18.4.0 Release 18 1 ...

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[5G Antenna Distribution in Substations Considering ...](#)

This for the electromagnetic environment is already complex substation, has undoubtedly added a new high frequency strong electromagnetic field source. In this case, if ...

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5G Base Station Electromagnetic Field Strength Estimation ...

Recently, with the commercialization of 5G, a new electromagnetic field (EMF) evaluation methods is need. However, conventional EMF evaluation methods are only based ...

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[Human exposure to EMF from 5G base stations: analysis, ...](#)

5G networks deployment poses new challenges when evaluating human exposure to electromagnetic fields. Fast variation of the user load and beamforming techniques may ...



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EN 301 489-50

EN 301 489-50 - V2.3.1 - ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station ...

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ETSI TS 138 113 V15.5.0 (2019-05)

TECHNICAL SPECIFICATION 5G; NR; Base Station (BS) ElectroMagnetic Compatibility (EMC) (3GPP TS 38.113 version 15.5.0 Release 15)

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[5G Mobile Communication Base Station Electromagnetic ...](#)

The article 35 of the Regulations stipulates that "for the establishment of large-scale wireless radio stations (stations) and ground public mobile communication BS, their ...

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TS 138 113

1 Scope The present document covers the assessment of NR Base Station (BS) and ancillary equipment in respect of Electromagnetic Compatibility (EMC).

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[ITU-T Rec. K.114 \(08/2022\) Electromagnetic compatibility ...](#)

Summary Recommendation ITU-T K.114 specifies the electromagnetic compatibility common requirements and test methods for digital cellular mobile communication base station (BS) ...

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