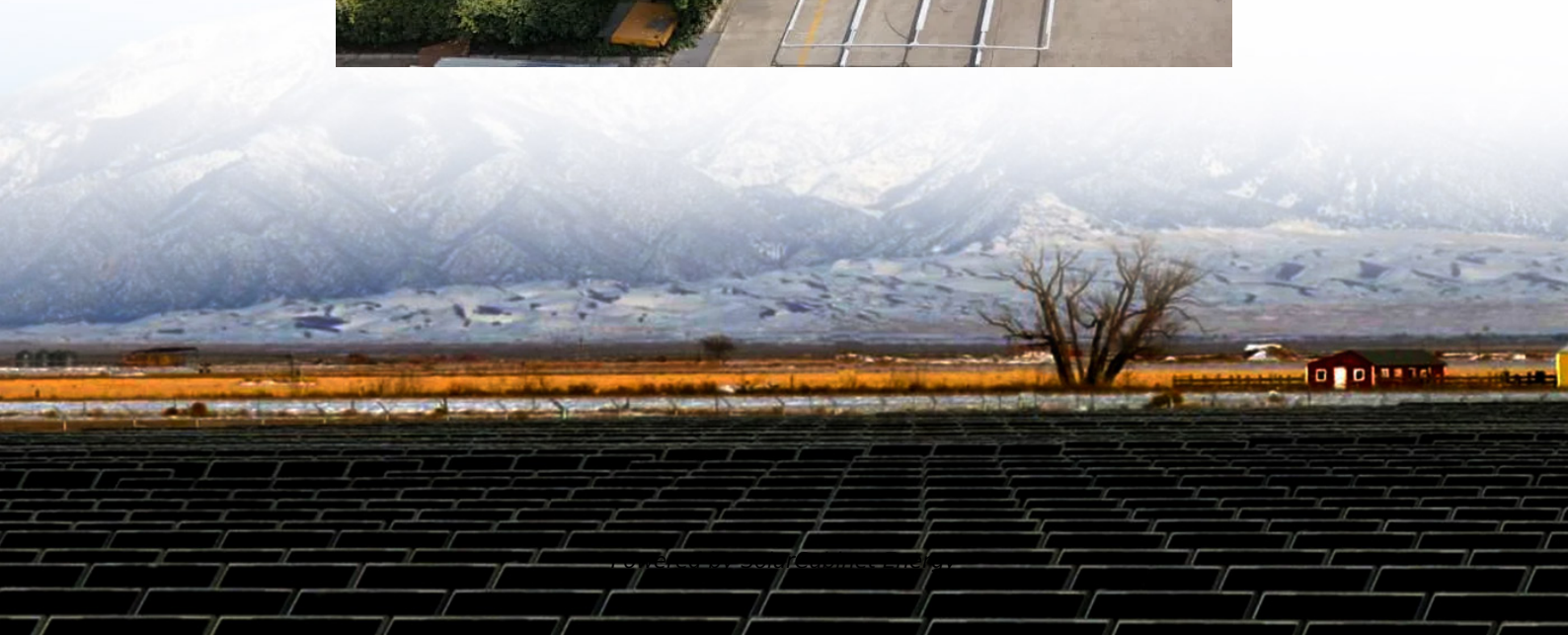


Communication Micro Base Station Safety Distance





Overview

How much exposure can a radio base station have?

On the ground, in houses, and other places where people reside, the exposure levels from radio base stations are normally below 1 percent of the limits. Only in the close vicinity of the antennas can the exposure limits sometimes be exceeded.

Do mobile phones need a base station?

Mobile phones and other mobile devices require a network of base stations in order to function. The base station antennas transmit and receive RF (radio frequency) signals, or radio waves, to and from mobile phones near the base station. Without these radio waves, mobile communications would not be possible.

What is the distance between a base station antenna and a human body?

The calculation used a homogeneous Visible Human body model in front of a simulated base station antenna of the same type. Both real and simulated base station antennas operated at 935 MHz. Antenna-body distances were between 1 and 65 cm. The agreement between measurements and calculations was excellent.

Are radio base stations harmful?

The WHO states: "From all evidence accumulated so far, no adverse short- or long-term health effects have been shown to occur from the RF signals produced by base stations." (WHO fact sheet "Base stations and wireless technologies") Mobile phones and mobile devices require a network of radio base stations to function.

Can unauthorized people access a base station?

The antennas are installed in such a way that unauthorized people do not have access to the area where the limits may be exceeded. This holds true



whether the base station is part of a 2G (GSM), a 3G, a 4G (LTE) or a 5G network.

What is a base station antenna?

The base station antennas transmit and receive RF (radio frequency) signals, or radio waves, to and from mobile phones near the base station. Without these radio waves, mobile communications would not be possible. Radio waves have been used for communication for more than 100 years. Radio and television broadcasting are well-known examples of this.



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[Prediction of Safety Distance of Antenna Electromagnetic ...](#)

The author studies the prediction of the safety distance of GSM900 mobile communication base station by theoretical and field measurement, the horizontal safety distance being 26 meters, ...

[Determination of safety distance limits for a human near a cellular](#)

This paper investigates the minimum distance for a human body in the near field of a cellular telephone base station antenna for which there is compliance with the IEEE or ICNIRP ...



[Risk Communication Guide for Mobile Phones and Base ...](#)

Typical levels from base stations in publicly accessible areas are far below international safety recommendations. This is comparable to radio and television broadcast services, which have ...

[Light energy lamppost communication micro base station safety ...](#)

A technology for street light poles and micro base stations, applied in the field of electric power engineering, can solve the problems of



inconvenient Internet of Things control, poor anti-fall ...



[Optimal Slicing of mmWave Micro Base Stations for 5G and ...](#)

Due to their small size and low power consumption, mBSs can be easily deployed on street lamps, traffic lights, or building facades where traditional base stations cannot be installed. They ...

[Energy Consumption Optimization Technique for Micro Base ...](#)

By obtaining the optimal beamforming factor and introducing the target user distance control factor, every user get the best power allo-cation to improve the recognition degree of micro ...



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