

Solar Storage Container Solutions

Legal principles and regulations for building EMS for communication base stations



Overview

How much RF radiation does a base station emit?

Each base station emits certain amount of RF radiation as part of its service coverage, which may range between 500m and 2km in radius. This is also known as the radio network coverage distance. The purpose of each base station is to connect mobile phone users to the mobile network to make calls or access the Internet. 2. What is RF radiation?

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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.

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.

Are RF radiation levels near mobile phone base stations safe?

Results of measurements showed that the RF radiation levels near mobile phone base stations have complied with the safety guidelines set by ICNIRP. Measurements also showed that the ambient RF radiation levels in Singapore are typically thousands of times below the limits in the ICNIRP guidelines.

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.

Who approves a mobile phone base station?

There are rules telcos must follow to install mobile phone base stations. The decision on who approves a base station depends on several planning factors, including: the classification/zoning of the land. To find out if a base station requires approval under local government, state or territory planning law, please contact your local council.

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LCQ13: Installation of radio base stations for mobile communications ...

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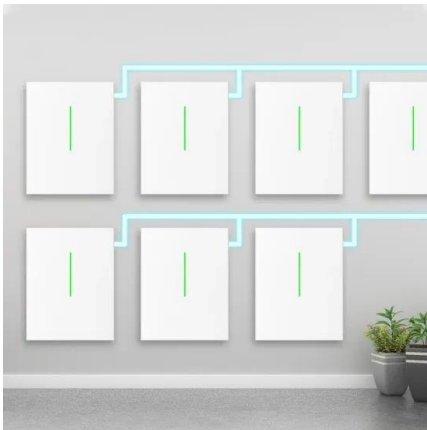
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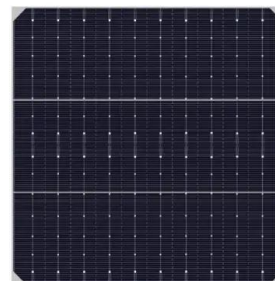


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