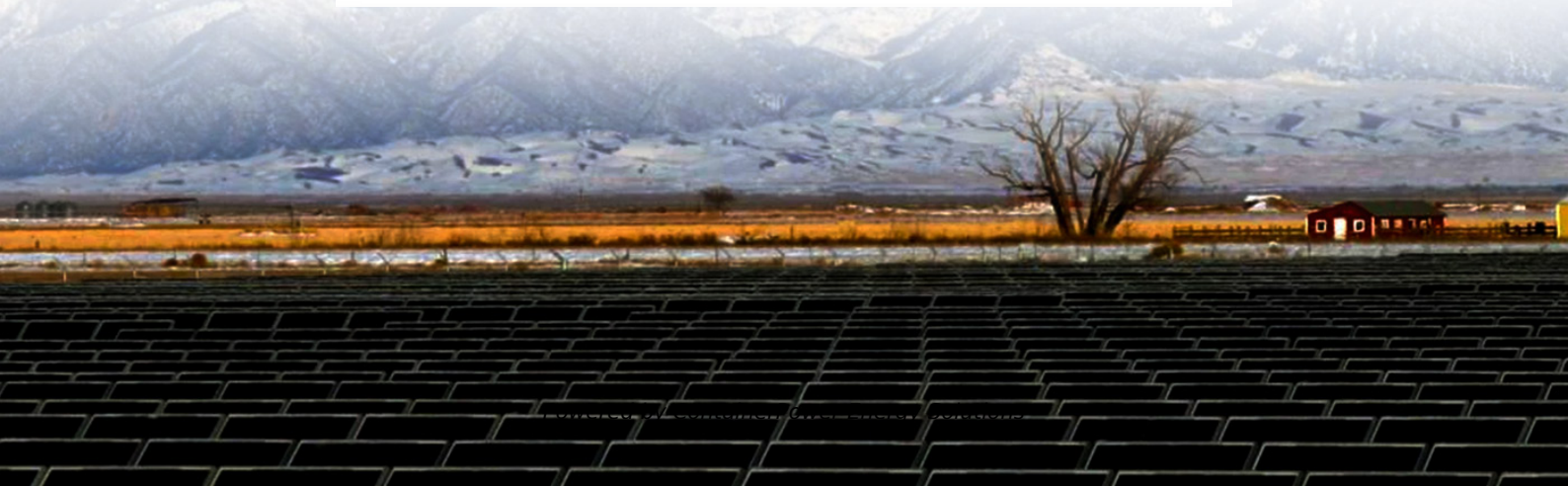
ContainerPower Energy Solutions

Safe distance between communication base stations and wind power



Overview

Reasonable distance between communication towers and wind turbine towers is a function of two things: (1) the physical turning radius of the wind turbine blades and (2) the characteristics of the communication systems on the communication tower.

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The guidelines below are the minimum distances usually needed to reduce the EMFs down to the General Public Precautionary Levels (see Note 1). In many cases the distances needed will be less than is shown here — but in a few cases, a greater distance will be required. Therefore, it is always best.

In planning the wind energy turbine locations, a conservative approach would dictate not locating any turbines in close proximity to existing tower structures to avoid any possible impact to the communications services provided by the structures. Reasonable distance between communication towers and.

Primary antennas for transmitting wireless telephone service, including cellular and personal communications service (PCS), are usually located outdoors on towers and other elevated structures like rooftops, water tanks and sides of buildings. The combination of antenna towers and associated.

The FCC has changed its RF-exposure rules, eliminating service-specific exemptions from the need to do a routine RF-safety evaluation and replacing those exemptions with a formula that applies to all radio services. See the FAQ on the ARRL RF-Exposure page for more information. The rules did not.

While all mobile and cell phone towers give out different levels of radiation, a minimum safe distance to avoid the worst of it is under 150ft, and after around 500ft, radiation levels will be minimal. However, the best way to test for yourself is with an EMF radiation meter. Mobile towers work.

mmunications services provided by the structures. Reasonable distance between communication towers and wind turbine towers is a function of two things: (1) the physical turning radius of the wind turbine blades and (2) the characteristics of th e to other structures is clearance of the blades. If. How far away from a mobile tower is EMF radiation strongest?

The first “radiation lobe” (the beam of the mobile tower) lands around 150ft, which is where EMF radiation is strongest. After that, there’s a direct correlation between distance and radiation intensity. So, the farther away from the tower you are, the less radiation you’re exposed to.

Is it possible to predict a safe distance from cell towers?

It is also difficult to predict a safe distance from cell towers. For example, cell towers are designed to transmit most of their radio frequency (RF) energy horizontally. Some areas below the tower may have lower levels than locations farther away that are more in line with the vertical height of the antennas.

How do I know if a mobile tower is EMF safe?

However, the best way to test for yourself is with an EMF radiation meter. Mobile towers work differently from other EMF-emitting devices, such as a WiFi router, and so have different ways of looking at minimum safe distances.

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.

How much RF exposure should a cell site transmitter have?

In the case of cellular and PCS cell site transmitters, the FCC's RF exposure guidelines recommend a maximum permissible exposure level to the general public of approximately 580 microwatts per square centimeter.

Is a cellular base station safe?

Like other radio towers, such as those used in broadcast radio and television, the use and construction of a cellular base station is regulated by the FCC, and the RF energy levels it can produce fall well below levels considered to

pose a threat to health. The antennas themselves must be kept inaccessible to the public, and at a safe range.

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