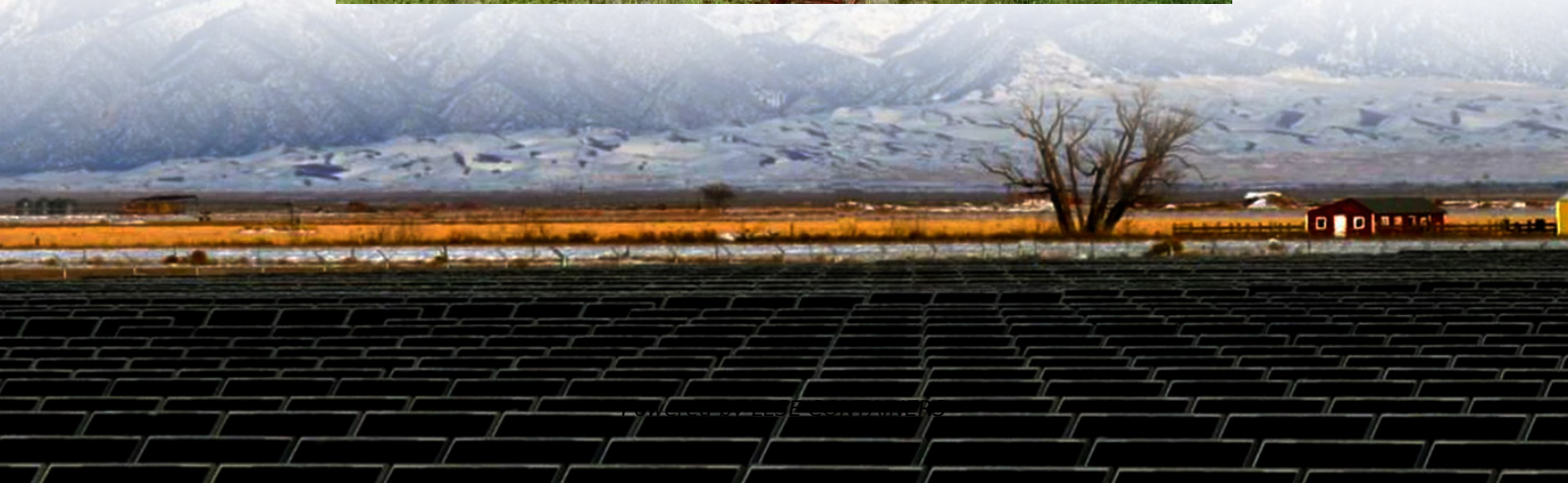


What is the principle of outdoor base station signal amplification





Overview

What determines the distribution of base stations with associated antenna powers?

The distribution of base stations with associated antenna powers is determined by coverage and capacity – two related factors of the wireless communication system.

How does a base station work?

Base stations typically have a transceiver, capable of sending and receiving wireless signals; Otherwise if they only send the trailer it will be considered a transmitter or broadcast point only. The base station will have one or more RF antennas installed to transmit and receive RF signals from other devices.

Why are two antennas used in a base station?

The two antennas for receiving are used to choose stronger signals which are much weaker than the transmitting signals. The power of the signals depends on the size of the cell which the base station uses to cover a specific area.

How does antenna selection affect the performance of a base station?

The choice of antenna directly impacts the performance of both the base station and the overall network. The antenna selection must consider a number of design issues.



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5.Basic Configuration of Base Station Amplifier

The base station amplifiers consist of a transmission power amplifier installed indoors and a low-noise reception amplifier installed outdoors near the antenna. The transmission



power ...



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