

## Kongres Container

# Can communication base stations share wind power



## Overview

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Can wind energy be used to power mobile phone base stations?

Worldwide thousands of base stations provide relaying mobile phone signals. Every off-grid base station has a diesel generator up to 4 kW to provide electricity for the electronic equipment involved. The presentation will give attention to the requirements on using windenergy as an energy source for powering mobile phone base stations.

Can wind turbines be positioned near aeronautical radio communication stations?

There do not appear to be any specific guidelines for the siting of wind turbines near aeronautical radio communication stations in the United States. Note that there are specific wind turbine guidelines for other radio systems such as DVOR radio navigation beacons.

Why do off-grid telecommunication base stations need generators?

As the incessant demand for wireless communication grows, off-grid telecommunication base station sites continue to be introduced around the globe. In rural or remote areas, where power from the grid is unavailable or unreliable, these cell sites require generator sets to provide power security as prime power or backup standby power.

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