

## ContainerPower Energy Solutions

# Capital Telecom Base Station Wind Power Regulations



## 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.

What is the windexchange ordinances database?

The WINDEXchange ordinances database is a collection of U.S. wind energy ordinances at the state and local levels; it is not exhaustive. If you would like to submit a wind energy ordinance that is not represented in the database, please email Laura Carter.

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.

How much power does a base station use?

ting the generator set and power system configuration for the cell tower. At the same time, there are certain loads that every base transceiver station (BTS) will use. These loads are pictured in Figure 2, which shows a typical one-line electrical layout for a base station employing a 12 kW (15 kVA).

What is a typical electrical layout for a telecom base station?

Figure 2 - Typical electrical layout for loads on a telecom base station. As you can see, the load consists mainly of microwave radio equipment and other housekeeping loads such as lighting and air conditioning units. The actual BTS

load used on the cell to.

What are wind ordinances?

These ordinances regulate aspects of wind projects such as their location, permitting process, and construction. The standards specified in ordinances provide clarity to wind developers and the public. Ordinances may also address issues of community impact such as: land use, noise standards, and safety.

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