



LOTWA SYSTEM

# Wind power signal blocking of solar container communication station





## Overview

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Why is wind power a problem in telecommunications?

Wind power is one of the fastest-growing technologies for renewable energy generation. Unfortunately, in the recent years some cases of degradation on certain telecommunication systems have arisen due to the presence of wind farms, and expensive and technically complex corrective measurements have been needed.

Which telecommunication services are more sensitive to wind turbines?

The telecommunication services included in this review are those that have demonstrated to be more sensitive to nearby wind turbines: weather, air traffic control and marine radars, radio navigation systems, terrestrial television and fixed radio links.

Does a wind turbine cause a scattering signal?

In summary, a wind turbine may cause a scattered signal of dynamic nature which is both amplitude and frequency modulated due to the rotating blades. The time and frequency characteristics of this scattering signal will depend on multiple factors.

Are radiolinks obstructed by wind turbines?

It is clearly observed that the radiolinks depicted in green are not obstructed by the wind turbines, while the turbines intercept the second Fresnel zone of the radiolink depicted in red. Fig. 13. Example of the exclusion volumes that should be respected to avoid diffraction effects on radiolinks .



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