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Analysis of communication base station and wind power related industries



UL1973 / UL9540A / FCC
UN38.3 / IEC62619 / CE
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Overview

Can communication and power coordination planning improve communication quality of service?

Our study introduces a communications and power coordination planning (CPCP) model that encompasses both distributed energy resources and base stations to improve communication quality of service.

What is the role of communication infrastructure in modern power systems?

This research underscores the crucial role of efficient communication infrastructure in modern power systems and presents a comprehensive approach that can be used to plan and operate both communication and power systems, ultimately leading to more resilient, efficient, and reliable networks.

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.

Why are power systems and communication systems increasingly coupled?

Therefore, power systems and communication systems are increasingly coupled. A power system supplies energy, and a communication system meets the demand for information exchange. A BS is the main intermediary

between a communication network and a power network.

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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