ŁOTWA SYSTEM

Wind power interference source for solar container communication stations

Overview

The impact of an adjacent wind farm operation on telecommunication signals is that it induces electromagnetic interference (EMI) in radar, television and radio signals, resulting from the complex rotating blade’s geometry of the wind turbines.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.

Do wind and solar power plants need to be integrated?

Wind and solar power plants, like all new generation facilities, will need to be integrated into the electrical power system. This fact sheet addresses concerns about how power system adequacy, security, efficiency, and the ability to balance the generation (supply) and consumption (demand) are affected by wind and solar power production.

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.

Are critical interference cases common in a wind farm?

Although the critical interference cases are not common, if they occur when the wind farm is already installed, the posteriori corrective measurements are normally technically complex and/or cost prohibitive , , .

Wind power interference source for solar container communication

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