Wind power signal interference at communication base stations

In this paper some considerations are presented with respect to the interference caused by large-size wind energy conversion systems into radio communication systems.

Wind-turbine-caused interference at land mobile transmitter stations typically occurs only within 425 meters or about 1,400 feet of a turbine site. Impact potential depends on satellite arc; 65 miles ...

There have been an assortment of studies and reports that industrial wind energy interferes with a variety of forms of communication. A sample of these are below:

The purpose of this project is to assess the impact of wind farm interference on interoperable train control (ITC) communication system at 220 MHz.

These figures illustrate the need for careful planning and detailed interference analyses when selecting optimal locations for wind turbine facilities that will have minimal effects on microwave networks and ...

14.1 Wind turbines can potentially interfere with communication systems that use electromagnetic waves as the transmission medium (e.g. television, radio or microwave links). Any effect depends on the ...

Therefore, this review succinctly compiles the basic steps of theoretical analysis and simulations of the impact of wind turbines on communication signals, and the remedies to minimize the...

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By contrast, the prediction of the potential impact of a wind farm on the telecommunication services before its installation allows the planning of alternative solutions in order to assure the ...

The assessment of suitability of a certain location for the installation of a wind farm requires the consideration of multiple impact issues: visual aspects, environmental effects such as the impact on ...

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