

The impact of wind power on communication base stations and their surrounding areas

Jun 9, 2024 · 1. Introduction Recently, with the rapid development of wireless communication technology, the enhancement of wireless network performance is concerned with meeting the ...

Apr 1, 2014 · Wind power is one of the fastest-growing technologies for renewable energy generation. Unfortunately, in the recent years some ...

Sep 24, 2023 · The global non-renewable energy situation is grim, and the new energy photovoltaic power generation technology is becoming increasingly mature and widely used. ...

Feb 6, 2025 · Most of the current research is based on the performance of the base station (BS) itself or the operation mode of the communication operator without considering the users" ...

Apr 29, 2024 · Introduction Wind power is one of the fastest-growing technologies for renewable energy generation. Unfortunately, in the recent years some cases of degradation on certain ...

Apr 15, 2022 · As a consequence, social aspects are covered with irregular frequency and level of detail [4]. Based on a review of several (life cycle) sustainability studies, the main impact areas ...

Feb 1, 2021 · Powering base stations with manageable-size renewable energy systems is a challenging task especially when it intends to reduce the total energy expense of the network ...

Sep 1, 2022 · This paper presents a qualitative review on wind power forecasting uncertainty. First, the definition of uncertainty sources throughout the forecast modelling chain acts as a ...

Mar 18, 2016 · As the incessant demand for wireless communication grows, off-grid telecommunication base station sites continue to be introduced ...

Sep 15, 2019 · The environment-friendly development of wind power is complicated as the atmospheric impacts of wind farms are difficult to measure. Wind power has made ...

Jan 13, 2022 · Despite global connectivity being one of the main requirements for future generations of wireless networks driven by the United Nation's Sustainable Development ...

Dec 1, 2023 · The competition for spaces, for users" attention, and for revenues create

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conflicts between stations" different functions (Zemp, 2011), which led many authors to see the negative ...

Oct 19, 2023 · The continuous deployment of emerging wireless-communication base stations in densely populated areas is triggering research on the assessment of human exposure to radio ...

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