

In this context, this paper describes an innovative approach to determine future trends and understand the current state of the art of wind power generation models.

Here, the most recent developments and future perspectives of wind power generation in the scientific literature are briefly reviewed. Five decisive topics for the future development of onshore ...

Although our review does not address social acceptance per se, it delivers a crucial knowledge basis by providing a summary of research about evidenced impacts of wind power, ...

This work aims to understand the weather and climate changes that impact global wind electricity generation to guarantee a stable energy supply.

This research presents a detailed evaluation of global wind power generation, employing cutting-edge machine learning methods to forecast future trends and capacities through 2050.

This issue calls for critical attention when establishing power systems with a high share of renewable energy sources. The conclusions provide a basis for analyzing power supply risks and ...

Here, in this Review, we describe the factors that dictate the wind resource magnitude and variability and illustrate the tools and techniques that are being used to make projections of wind ...

Artificial intelligence (AI), particularly machine learning (ML), enhances the efficiency and sustainability of power generation in wind energy systems. This study employs a systematic literature ...

Abstract This paper presents a review of the recent advances of the wind power. The wind power is a very clean and renewable alternative to the burning fossil fuels and has no impact on ...

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