

Reflections on wind power generation

How does wind energy generation affect the environment?

Apart from environmental impacts, wind energy generation faces issues in energy and financial sustainability, such as the wind power fluctuation, technology lagging and use of fixed feed-in tariff contracts that do not consider wind energy advancement and end-of-life management.

What factors influence the success of wind energy?

The continued success of wind energy depends on factors such as available wind resources, land, wind turbine design, political and economic conditions, environmental impact, and social acceptance. Here, the most recent developments and future perspectives of wind power generation in the scientific literature are briefly reviewed.

What is the special issue 'recent development & future perspective of wind power generation'?

The Special Issue 'Recent Development and Future Perspective of Wind Power Generation' provides valuable articles, closing some research gaps. The author thanks the contributors of the Special Issue 'Recent Development and Future Perspective of Wind Power Generation'.

How to mitigate wind energy fluctuations?

Apart from mitigating environmental impacts, wind energy economical and energy sustainability issues also require mitigation strategies. One of the ways to mitigate wind energy fluctuations is to integrate wind energy with energy storage systems.

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...

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.

Using an Original Institutional Economics (OIE) approach to examine real world developments, we argue that the global wind energy industry is increasingly volatile and ...

This chapter comprehensively discusses wind power generation, tracing its evolution from historical windmills to modern large-scale wind farms, and analyzing its technical principles, resource ...

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In the twenty-first century, the Chinese government has made a strategic plan to accelerate the development of new energy. Since then, China's new energy development has ...

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Given the clear economic, social, and environmental advantages of wind power as a cornerstone of a renewable energy system, the main obstacles to progress today come not from ...

There are various reasons for the growing popularity of wind energy, including the need to transition to renewable energy sources, advances in wind turbine technology, and increasing ...

While traditional wind energy harnesses natural wind driven by atmospheric pressure variations and the Coriolis force caused by the Earth's rotation 11, this paper explores an ...

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