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Noise problem of Fenglingdu wind power generation

Explore the multifaceted issue of wind turbine noise ?. Understand its sources, effect on communities, health concerns, and effective mitigation strategies.

This paper discusses various noise generation mechanisms in wind turbines and potential noise reduction techniques. Special emphasis has been laid on reviewing aerodynamic noise sources...

Recent developments in horizontal-axis wind turbine noise research are summarised and topics that are pertinent to the problem, but are yet to be investigated, are explored and suggestions for future ...

However, noise pollution is frequently cited as a major drawback. Airfoil blade self-noise is the major contributor to wind turbine noise, so reducing it is crucial in curtailing wind turbine noise ...

This research has presented a systematic comparison of different noise reduction techniques of wind turbines and suggested the best wind turbine modification for improved noise ...

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Best practices for noise mitigation for turbines involve understanding the primary sources of noise--such as aerodynamic and mechanical sounds--and implementing innovative strategies to ...

Wind turbines generate sound. Mainly this sound source is of aeroacoustic origin as improved sound insulation of the nacelles has reduced the mechanical sound sources. Unwanted sound is called ...

Explore innovative noise reduction techniques for wind turbines from a mechanical engineering perspective to boost efficiency.

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