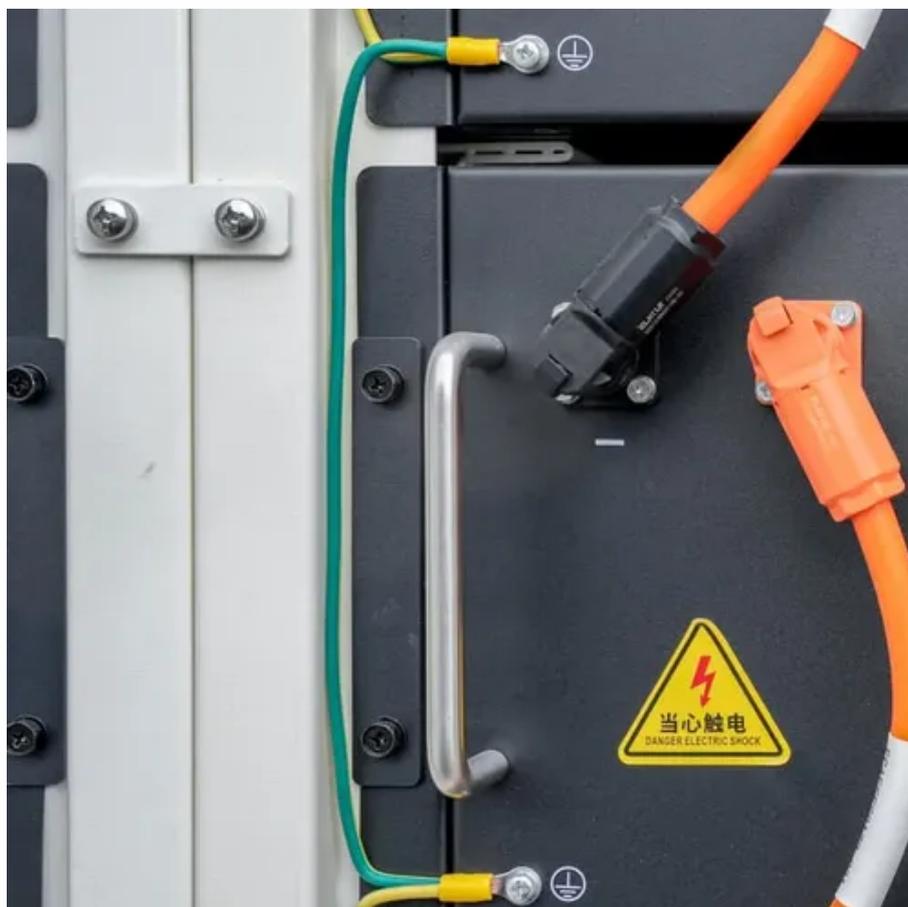




Wind power generation produces a lot of wind noise



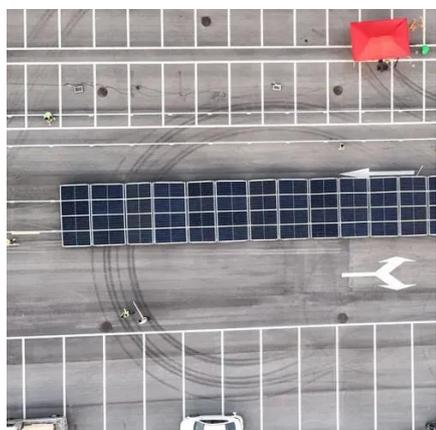


Overview

Research reveals that turbines typically produce 35–45 dB at a distance of 300 metres, comparable to a quiet residential neighbourhood or the hum of a refrigerator, and far lower than city traffic or vacuum noise. Wind energy provides a low-carbon alternative to fossil fuels but raises concerns about noise and its impact on local communities. Some who live near onshore wind farms even claim the noise is causing elevated stress levels and health. Operating wind turbines can create several types of sounds, including a mechanical hum produced by the generator and a “whooshing” noise produced by the blades moving through the air. The paper. The noise from wind turbines has been an issue in the planning and development of wind power for many years, giving rise to both controversies during the deployment of onshore wind farms and a significant amount of research by various communities of scientists or what we treat here as epistemic. Wind turbines generate a measurable acoustic output, making the question of whether they cause noise pollution dependent on the distinction between sound and unwanted sound. Noise pollution is defined as any unwanted or disturbing sound that negatively affects human or animal life.



Wind power generation produces a lot of wind noise



[How Loud Are Wind Turbines? \(2025\) , Today's Homeowner](#)

The noise of a wind turbine is a function of its distance and the surrounding environment. At a distance of 300 meters, a wind turbine puts out about 45 decibels, which is equal to the average ...

Sound , Department of Energy

Operating wind turbines can create several types of sounds, including a mechanical hum produced by the generator and a "whooshing" noise produced by the blades moving through the air.



[ANALYSIS OF NOISE GENERATED BY WIND TURBINES WITH ...](#)

Low-frequency noise, including noise generated by wind turbines, consists of the audible acoustic component and infrasound. It is important to take this fact into consideration both when studying ...



Do wind turbines cause noise pollution?

Wind turbines do make some noise, but not noise pollution. They are below the legal limits, and thanks to technological advances, wind energy is increasingly quieter and more ...



How Does Wind Energy Create Noise Pollution?

Large-scale wind turbines, which are relatively recent innovations, produce more sound when wind speeds are higher, which can mask the sound produced by the turbines. This paper ...

Fact Sheet: Wind Energy and noise

The amount of noise generated by wind turbines is influenced by multiple factors: atmospheric conditions, whether the turbine is upwind or downwind from the person perceiving the sound, the ...



Do Wind Turbines Cause Noise Pollution?

Wind turbines generate a measurable acoustic output, making the question of whether they cause noise pollution dependent on the distinction between sound and unwanted sound.



[Can wind turbine noise affect your health?](#)



Business ...

Learn what causes noise from wind turbine blades, its health effects, regulations, and how low-noise models help to reduce noise pollution.



Wind turbine noise and its mitigation techniques: A review

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



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