

How loud is the wind noise from wind turbines



Overview

Modern wind turbines typically generate noise levels between 43 and 45 decibels (dB (A)) at a distance of 350 meters, a sound level often compared to a quiet refrigerator, significantly lower than common concerns suggest. Some say the noise is minor and dissipates after a few hundred meters, while others say it carries on for miles and disturbs their quality of life. Wind companies, scientists, governments, and angry residents have all found themselves clashing over the sound of wind power, and researchers are. Because wind turbines are such a great source of clean, renewable energy, they're usually greeted with a great deal of enthusiasm. But some complaints have been made that they can cause too much noise for residents living within a mile of the blades. The presence of wind turbine sound can depend on atmospheric conditions, including air flow patterns and. Whether a noise is objectionable will vary depending on its type (tonal, broadband, low-frequency, impulsive, etc.) and the circumstances and sensitivity of the individual who hears it (often referred to as the "receptor"). This includes humming or grinding noises from the gearbox, generator, and cooling systems.

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[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 ...

[How Loud Is A Wind Turbine? , GE News](#)

In most places, according to Keith Longtin of GE Renewable Energy, background noise ranges from 40 to 45 decibels, meaning that a turbine's noise would be lost amongst it.



[FACTS ABOUT WIND ENERGY AND NOISE](#)

However, well-designed wind turbines are generally quiet in operation, and compared to the noise of road traffic, trains, aircraft, and construction activities, to name but a few, the noise from wind ...

[How Loud Are Wind Turbines?](#)

How does wind turbine noise compare to other common sounds? Wind turbine noise at a typical distance (350 meters) is often comparable to the sound of a quiet refrigerator or a library, ...



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At 300 meters, the noise from a wind turbine is between 35 to 45 decibels, which is similar to the ambient noise level in the countryside. If you were to stand directly in front of the ...



[How Loud Are Wind Turbines: Noise Level Measurements](#)

Wind turbines are key to advancing clean energy, yet their noise levels often raise concerns among nearby residents. Surprisingly, studies show that the sound generated by modern ...



[Are Windmills Loud? How Much Noise Do They Make?](#)

Get the facts on modern wind turbine noise. We clarify sound sources, measure actual decibel levels, and explain mitigation strategies.



[Are Wind Turbines Loud? Noise Explained](#)

Modern wind turbines actually have the same noise level as a household refrigerator from a distance of 750 feet. One can stand underneath a wind turbine and have a normal conversation

...



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

How much noise do wind turbines make? 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 ...

[Sound , Department of Energy](#)

On average, land-based, utility-scale (large) wind turbines produce sounds that fall in the range of 35-45 dB when heard from 300 meters away (the closest distance a wind turbine is typically placed to a ...



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