

The wind noise from the generator is very loud

Why does a wind turbine make a noise?

Wind turbines most commonly produce some broadband noise as their revolving rotor blades encounter turbulence in the passing air. Broadband noise is usually described as a “swishing” or “whooshing” sound. Some wind turbines (usually older ones) can also produce tonal sounds (a “hum” or “whine” at a steady pitch).

How loud are wind turbines?

That means they are no louder than a typical refrigerator (50 dB) and create far less noise pollution than average city car traffic (70 dB). When it comes to offshore wind energy, underwater noise from various offshore wind turbines is at least 10-20 dB lower than ship noise in the same frequency range, according to a 2020 Danish study.

How to analyze wind turbine noise?

Noise analysis can be done based on the operating characteristics of the specific wind turbine that will be used, the type of terrain in which the project will be located, and the distance to nearby residences. Particular attention will need to be paid if residences are sheltered from the wind.

What is the difference between background noise and wind turbine noise?

Permitted sound levels across most Australian States for all industrial equipment are background noise levels plus 5dBA or 35dBA whichever is less, whereas for wind turbines they are background plus 5dBA or 40dBA whichever is more. There is no scientific evidence or reason for this difference.

How to reduce wind turbine noise?

Mitigating Wind Turbine Noise: The industry is continuously seeking ways, such as using softer materials on blade surfaces, altering the pitch angle, and soundproofing nacelles, to cut down on the noise turbines make without losing their effectiveness in power generation.

What makes a wind turbine quieter?

Other parts of a turbine design can also make turbines quieter. For example, changing the shape of wind turbine blades can make them more aerodynamic, allowing wind to pass through at a reduced volume or different frequency. Wind turbine gearboxes and generators can also be soundproofed using sound-dampening buffer pads.

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