Impact of Wind Turbines on Forest Bats

A recent study conducted by scientists from Germany, has revealed the impact of **wind turbines on the activity of forest** <u>bats</u>.

- Three foraging groups of bat species were studied: narrow-space, open-space(hunt in open areas with few obstacles), and edge-space(specialized on hunting prey close to background objects), within a radius of 80 to 450 meters under variable wind conditions.
- Narrow-space foraging bats, which are particularly reliant on forest habitat, showed a 77% decline in activity as wind speed increased in operational wind turbines.
 - The avoidance behavior was **not observed in edge-space and open-space** foraging bats, indicating a **habitat-specific response**.
 - The noise emitted by wind turbine rotors was identified as a significant cause of the avoidance behavior.
- Wind turbines, a key element in <u>national climate strategies</u>, are increasingly erected in forest sites worldwide, posing potential challenges to bat populations.
- The study, initially focusing on short-term impacts, suggests potential long-term effects on bat activity near operational wind turbines, particularly if noise emissions are the cause.



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