# Why do wind turbines rotate even when there is no wind

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There are several possible reasons why a turbine may be still even when the wind is blowing, says Giri Venkataramanan, a professor of electrical and computer engineering at ...

However, it has been demonstrated that wind turbines can meet our energy needs even without wind through a combination of energy storage, grid integration, low ...

Once a turbine is going, it can take hours to slow back down, and ...

We dug around in some state, federal and industry reports and reached out to academic experts in energy technology to determine why some ...

Wind turbines need enough wind to operate, but too much wind is also not helpful. Wind turbines can only operate safely up to a certain wind speed, which is ...

Even when there is no wind at ground level, there can still be a significant wind speed at the height of the turbine, so it is not uncommon to see ...

In summary, the primary reasons for wind turbines not spinning include: 1) Lack of wind or insufficient wind speed; 2) Excessive wind; 3) Maintenance requirements; and 4) Potential ...

Bottom line: Wind turbines don"t always spin--and in Texas, it"s often not because the wind isn"t blowing. Transmission constraints and grid congestion are preventing clean, low-cost wind ...

The Bottom Line? It"s Complicated So, can wind turbines rotate without wind? Technically yes, but only through human intervention or clever engineering hacks. They"ll never generate electricity this way ...

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