

Horizontal wind turbine vs vertical

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In the wind turbine business there are basically two types of turbines to choose from, vertical axis wind turbines and horizontal axis wind turbines. They both have their advantages and disadvantages and the purpose of this article is to help you choose the right system for your application.

Horizontal axis wind turbine dominate the majority of the wind industry. Horizontal axis means the rotating axis of the wind turbine is horizontal, or parallel with the ground. In big wind application, horizontal axis wind turbines are almost all you will ever see. However, in small wind and residential wind applications, vertical axis turbines have their place. The advantage of horizontal wind is that it is able to produce more electricity from a given amount of wind. So if you are trying to produce as much wind as possible at all times, horizontal axis is likely the choice for you. The disadvantage of horizontal axis however is that it is generally heavier and it does not produce well in turbulent winds.

I am convinced the oil industry pushes so hard on horizontal turbines because vertical will cut deep into their greasy pockets. They spend a fortune keeping them out of the market because if we begin using them, they will lose 100 times their fortunes.

I don't understand why vertical turbines are not more common. Because it generates some more power. The only reason they would not be more common is because it needs more material's. Or it needs gas, coal or anything like that.

I don't understand why vertical turbines are not more common. They appear to be way more efficient than horizontal turbines. There are now horizontal turbines with no moving parts where the blades just resonate in order to produce energy.

We have a Conifer 'Totem Pole' in the garden of our residential area house. Basically a tree we had topped and all branches gut off now with vine type flowers covering it. It is approx 25 ft+ tall and I am thinking of putting a small wind generator on top of it, but can't decide which axis. VA seems favourite as the roofs appear to be causing more turbulent than stable air flow. Open to suggestions?

I remember seeing vertical axis turbines where the generator is on the ground and curved sails run vertically like an egg beater. They turned continuously with winds under five mph, from any direction, since the vertical sails were wrapped in a gradual spiral, with six sails per turbine. I saw them outside Livermore Labs back in 1995. What, did propeller manufacturers push to get their propellers used instead of better designs?

Good information which enables to choose proper type of air turbine to produce electric power more



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efficiently. It helps me to design mini air turbines.

Windmills do work, wind turbines produce electricity. If you're planning on putting a windmill on a roof, it might not do you much good. As for the design, it sounds completely doable

I am thinking of making a rotor for Vertical axis wind mill which will appear just like the rotor of an exhaust fan. It will be made of Acrylic sheets and vanes may be of FRP or Acrylic. If it works I hope it may be suitable to mount on almost every building roof top. Has any one tried it? Is it practicable? A.M. Oke E

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