



# Home wind generator system

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Her neighbor has been living off the grid for years - relying solely on solar power and a home wind turbine. Running into him and chatting a bit the other week, she got all excited about the prospect of her own off-the-grid living dreams, which, of course, spilled over into conversations with me.

What good would a wind turbine do? Could I really power things from home on one of these? How many would I need to run a whole household? Where in the world - literally - could they do the job and where would they be useless?

As I've done my research, I've learned loads on the topic that I wanted to pass along to you. Let's explore deeper and find out what is the best home wind turbine kit for your residential electricity needs.

One of the first big questions I had was how the heck do these things work? We've known about windmills forever - thank you beautiful Netherlands! - but it's easy to assume that they're not as efficient as regular power from a power plant.

It powers everything from sailing to generating usable electricity. The stuff used to create electricity or mechanical power - think kites and sails - is referred to as wind power or wind energy.

Wind energy is a source of kinetic energy, which is literally the energy of motion. Wind turbines take this kinetic energy of the wind and converts it into mechanical energy or power or electrical power via a generator.

And how the turbine does that is by turning the wind energy into electricity by using the aerodynamic force that the rotator blades create. These work similar to other things that look like them - airplane and helicopter propellers.

As the wind flows across these blades, the air pressure decreases on one side of the blade, which creates a different pressure across the two which results in drag and lift - again like flying machines.

When the rotors are connected to a generator - like through a drive turbine or shaft and gears - the energy speeds up the rotation and translates the aerodynamic force into the rotation of a generator's components, which then creates the useable electricity.

However, they bring up a really important issue that has to factor into your decision for use of a turbine: zoning and local homeowner association conditions. Many of these will prevent someone from using a larger turbine powerful enough to run much of the household in urban areas.

Buildings and gates, solid fences, et cetera create windbreaks that are great for keeping down certain issues in



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an urban yard but decrease wind movement that would allow you to power a home wind turbine generator.

It is highly recommended, however, that if you do plan to work totally off the grid, you should consider combining wind power and solar power to fully power your home, especially in urban or low wind areas.

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