



Small roof wind turbine

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When it comes to wind turbines, bigger is generally better. While this doesn't mean that a small rooftop turbine won't reduce your electricity bills, the conditions needed for an efficient turbine are more specific than those for solar panels.

Below, you'll learn what makes a wind turbine efficient and if a rooftop turbine is potentially worthwhile. By the end, you should be able to tell whether or not one makes sense for you.

Installing a rooftop small wind turbine makes sense if you can get the equipment high enough and out of the way of obstacles. Of course, living in a windy area also helps. Otherwise, the installation and maintenance costs might outweigh the savings due to a lack of sustained winds.

Getting free electricity through something like solar panels or wind turbines is exciting. Still, if installed under the wrong conditions, the equipment may not meet your expectations.

Wind turbines need sustained winds to be genuinely effective, and the wind isn't always accessible in certain areas.

That said, a rooftop wind turbine might work for you if the following conditions are met:

If you live in a rural area with few trees or houses surrounding the property, a rooftop wind turbine will be more effective than if you live in a suburb of a big city.

Additionally, if your residence is in an area that makes connecting to a power grid difficult or expensive, wind turbines could be a good alternative, especially if they're paired with a solar panel array.

Wind turbines perform best out in the open, where no barriers or obstacles affect the wind patterns. Given that, turbines in cities and towns tend to be less effective. A uniform wind in both speed and direction ensures that the turbine can maximize energy output.

If your home is in the middle of a neighborhood or surrounded by tall homes and trees, your turbine may struggle to capture enough wind to make it worth the money.

As noted, you'll encounter many potential problems with a rooftop wind turbine. However, you may be able to save energy on your energy bill via these turbines (albeit not much).



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