



# 1 5 kw wind turbine cost

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Bladeless wind turbines offer several compelling advantages that make them ...

Some parts of a wind turbine are recyclable. The tower and hub are made of steel ...

We've all seen fields of white towers with sweeping blades. These wind farms can generate electricity for hundreds of homes. But did you know that you can get a small wind turbine for home use?

The technology has been shrunk so that homeowners may harness the power of the wind for themselves. Small wind turbines can decrease your utility bill and save you money in the long run.

However, there seems to be a lot of mystery behind small wind turbines; they appear complicated and exclusive. So we've written this guide to clear any uncertainty and help you choose your very own wind turbine!

A small wind turbine can decrease your utility bill from 50% to 90%. With a large enough system and the right wind conditions, you can use wind energy to power your home.

The amount of energy that the turbine creates depends on the following factors:

The turbine power curve-- shows the relationship between the wind speed and turbine power. It displays the performance of the wind turbine.

The average wind speed in your area-- small wind turbines need 3 - 25 mph to be effective. A 20 mph wind will generate 600 watts per square foot of turbine area. We'll explain what "per square foot" means in the next section.

The speed frequency distribution-- this graph shows the different wind speeds expected at varying times of the year. Specifically, it shows the number of hours expected per wind speed class.

Residential wind turbines produce anywhere between 400 watts and 10 kilowatts of power. However, a typical American home uses 877 kWh per month.

Using these numbers, a 1.5 kW turbine in 14mph wind will save 34% of the home's utility bill. However, these figures depend entirely on the turbine efficiency and the mentioned factors.

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