



# Energy producing windmills for homes

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A home wind system uses the available wind and breezes around a residence to rotate a small turbine that converts wind into electricity. These systems are becoming more popular in areas of the US where the wind and breezes are generally constant, and the wind speed (velocity) is typically between 8-35 miles per hour. Most small turbines have the capacity to turn into the direction of the wind to maximize the amount of electricity generated.

A small wind turbine system is recommended for homes when:

- o Tall towers are allowed in your neighborhood or rural area
- o You have enough space in the home for the components (batteries, inverters, charge controllers, etc.)
- o You can determine how much electricity you need or want to produce and if it works for you economically
- o There is sufficient space to allow for lowering the tower for maintenance.

Wind energy systems are most cost-effective in areas with plentiful wind resources (dependable higher wind speeds each day).

## Reduce Energy Consumption

Before choosing a wind system for your home, you should consider reducing your overall energy consumption by making your home more energy efficient. Reducing your energy consumption will significantly lower your utility bills and will reduce the size of the wind turbine system you need.

For homes that are already energy efficient and utilize some types of natural heating, cooling, and daylighting, a small wind energy system can lower your electricity bill by up to 50%, and it is nonpolluting.

Wind turbines convert the kinetic energy in wind into mechanical power that runs a generator to produce clean electricity. The blades of a turbine are aero-dynamically designed to capture the maximum energy from the wind. The wind turns the blades, which spin a shaft connected to a generator that makes electricity. The turbine blades often resemble a ceiling fan (two to five blades) but newer models are available in creative egg and spherical shapes. The blades are typically made with combinations of plastic and metal materials that are flexible yet sturdy.

Many manufacturers of home wind turbine systems provide consumers with a complete package of all of the necessary components and assemblies.



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