



Complete wind turbine system

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This platform captures the important interactions between various subsystems to achieve a better understanding of how to improve system-level performance and achieve system-level cost reductions.

The Wind Energy Systems Engineering Workshop enables speakers in academia, industry, and international research laboratories to present and discuss topics relevant to systems engineering and the wind industry.

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.

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.

oThe brake: The brake is usually mounted on the turbine or the tower. The brake is a mechanical or electrical switch that allows the turbine to stop turning, even in a wind. This allows maintenance to be performed on the turbine in a safe way.

oThe Inverter: The inverter changes the direct current (DC) power generated by the wind turbine into 120 volt alternating current (AC) power, which is the type of electrical power found in a residence.

oDisconnect: The disconnect breaker or switch is similar to the disconnect switch that is on a typical house. The purpose of the disconnect switch is to shut off the power to the house for safety or maintenance.

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