# Convert gasoline generator to wind turbine

How does a wind turbine work?
In modern wind turbines,wind rotates the rotor blades,which convert kinetic energy into rotational energy. This rotational energy is transferred by a shaft which to the generator,thereby producing electrical energy. Wind power has grown rapidly since 2000,driven by R&D,supportive policies and falling costs.

How does a wind turbine turn mechanical power into electricity?
This mechanical power can be used for specific tasks (such as grinding grain or pumping water) or a generator can convert this mechanical power into electricity. A wind turbine turns wind energy into electricity using the aerodynamic force from the rotor blades,which work like an airplane wing or helicopter rotor blade.

How is wind used to produce electricity?
Wind is used to produce electricity by converting the kinetic energy of air in motion into electricity. In modern wind turbines,wind rotates the rotor blades,which convert kinetic energy into rotational energy. This rotational energy is transferred by a shaft which to the generator,thereby producing electrical energy.

Is a natural gas wind farm better than a coal based generator?
For example,Colorado-based Hybrid Turbines Inc. is selling wind farms systems that marry a natural gas-based generator to a wind turbine. "Even if natural gas is used,the electricity produced...is twice as environmentally clean as burning coal," reports the company.

What are the components of a wind energy conversion system?
The major components of a typical wind energy conversion system include a wind turbine,a generator,interconnection apparatus,and control system. Therefore,the design of a wind energy conversion system is complex.

Does a wind turbine lose energy?
The wind loses some of its kinetic energy(energy of movement) and the turbine gains just as much. As you might expect,the amount of energy that a turbine makes is proportional to the area that its rotor blades sweep out; in other words,the longer the rotor blades,the more energy a turbine will generate.

Humanity has been harvesting energy from the wind for centuries. The practice goes back at least to 8th century Persia where the first known historical records of windmills ...

This is a response to an "Ask Steve" question. Today"s question comes from Peter. He asks, how do I make a windmill that uses an alternator to generate electricity? How an Alternator Generates Electricity In 1831-32 ...

Wind turbines can turn the power of wind into the electricity we all use to power our homes and businesses. ...

from charging our phones, to allowing us to make a cup of coffee or fuel an electric ... The blades rotating in ...

I read the article about converting a gas generator to a wind power and there was no mention of controlling the speed from wind to to the rpm"s of the generator. If there is 30 mile winds then it your generator will spin ...

Humanity has been harvesting energy from the wind for centuries. The practice goes back at least to 8th century Persia where the first known historical records of windmills came, but likely extends...

This mechanical power can be used for specific tasks (such as grinding grain or pumping water) or a generator can convert this mechanical power into electricity. A wind turbine turns wind energy into electricity using the aerodynamic force ...

The drivetrain on a turbine with a gearbox is comprised of the rotor, main bearing, main shaft, gearbox, and generator. The drivetrain converts the low-speed, high-torque rotation of the turbine"s rotor (blades and hub assembly) into electrical ...

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