

WIND

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HOW IS WIND USED TO PRODUCE ENERGY

Wind is a form of renewable energy. By modern wind turbines can be used to generate electricity. As the wind flows through the wind turbines or sails can produce significant mechanical power. The wind turbines transform kinetic energy to mechanical power.



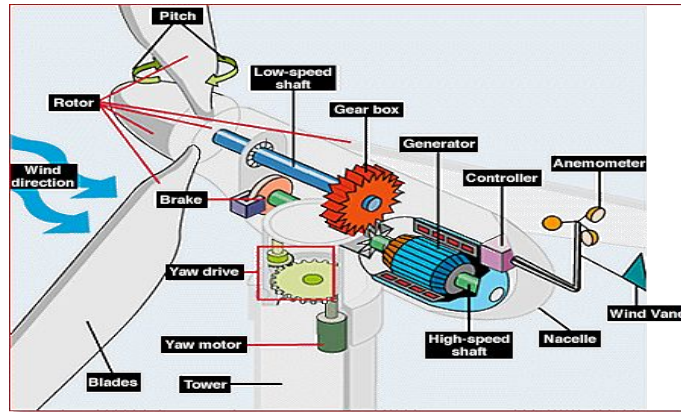
WHAT IS WIND ENERGY USED FOR



This mechanical power that is produced from wind turbines is used for special tasks such as grinding grain or pumping water. Also this energy can be generated to power homes, businesses, schools, and etc.

HOW DOES IT FUNCTION?

The way that wind turbines work is the blades turn in the moving air and and power an electrical generator that supplies the energy. The faster the wind blows the more energy the wind turbines produce.



WIND ENERGY ISSUES

Wind turbines have massive blades that can spin up to 180 mph and anything flying near them will be in danger. The big problem is that birds can fly into these blades and die very easily. Researches found that the cause of this was making a major threat to the bird population. Another problem is that when turbines are in a low surface area. They do not have as much room as the larger turbines, so the blades have to spin much faster in than usual. This is even more dangerous for the bird population. it is very unlikely that a bird will pass through the wind turbines with such speed.

CONTINUE...

The Altamont pass power plant was built in the middle of a major migratory route for large birds. This area also houses the world's largest single population of golden eagles. With hundred of wind turbines spinning, there is a good chance of the birds to get close to the wind turbines, try to go through, but end up getting hit by the blades and dying. A 2013 study found that 573,000 birds and 888,000 bats are killed by wind turbines.



ECONOMIC IMPACTS

if the wind is not fast enough the wind turbines will not be able to turn or if the wind is too fast the wind turbines shut down because it's too fast. Therefore no energy is being produced and this makes an economic impact. Energy is needed at all times, when this happens it causes a big issue.



NEGATIVE IMPACTS!!!!!!!!!!!!

1. Wind turbines can be harmful to birds and bats.
2. They are very loud
3. Storage can be expensive for wind turbines
4. They don't produce as much energy compared to other methods.



POSITIVE IMPACT!!!!!!!

1. once the wind turbine is made and it works efficiently it causes no pollution into the atmosphere.
2. The land below can be used.
3. They come in different sizes so even businesses can have them.



CITATIONS

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