



Homemade wind power generator

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The idea of generating electrical energy using the wind energy always attracts me. So now being a well equipped DIYer its time to built the first wind generator from scratch.

The whole idea is to built a small wind generator using reliable techniques and the stuff thats best suited to serve the purpose while gathering all the material from the hardware store or a junkyard.

List of material used in this project:

List of tool used in this project:

And some other hand tools...

Yes the generator, for that we have decided to use a brushless hub motor and the one that we found was from an old hoverboard, as these days you can easily find one around in a scrap yard. The reason for using a permanent magnet hub motor is the fact that you dont need to worry about the brushes wearing out as in a brushed motor and their efficiency, which is far better than a similar size brushed motor.

Besides that these hoverboard motors can produce good voltage even when handcranked. Now this factor is important for a wind generator as even with slight gusts of wind we can get voltage that can get the system working.

Now with all the factors in mind we have dissassembled a hioverboard and get our hands on one of the motor. Most of the times these motors are in good condition but just to make sure they are in working condition, mount the motor on a bench with the shaft using a clamp. Now attach a 12v bulb on any two of the three thick wire and give the motor a quick spin by hand. The bulb should make a decent glow, now you can do that with the other remaining wire as well.

Next, we dissassembles the motor with the six flat head screws on the back of the motor. Pull the back plate and remove the tyre with a screw driver. Now time to step on the casing and pull the stator using a plier, sure you are going to need some fore doing that.

Once the rotor and stator are seperated,

To get the motor spinning, we need to translate the wind energy into mechanical energy. So to make the motor spin we need to mount the blades on the hub motor and for that we are going to need an adapter.

Now the adapter is made of two 3mm thick steel plates with a diameter of 6 inch. The blades holder are going



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to be 1 inch wide 5mm thick steel stripes that are going to be sandwiched between the steel discs.

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