



# Building a home wind turbine

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This instructable will demonstrate how to build a power generating wind turbine. My inspiration came from seeing other wind turbine instructions online. I hope to simplify the process with clear, easy to follow instructions.

Thanks to mdavis19 for his instructable How I built an electricity producing wind turbine which really sparked my interest in wind energy.

Parts Battery - - - \$58 Battery Box - - - \$8 Battery Connectors - - - \$2.25 500 Watt Inverter - - - \$45 Generator - upcycled treadmill motor - - - \$0 Tail - scrap metal - - - \$0 6" PVC pipe 10" length - - - \$30 Bolts & Screws - - - \$5 1" Iron pipe 60" length - - - \$14 Pipe Nipple - - - \$2.50 Pipe Flanges - - - \$8 Pipe Swivel Connector - - - \$3.50 16 Gauge Wire (already owned) - - - \$0 Black spray paint (already owned) - - - \$0 Total - - - \$176.25 Power tools Drill & drill bits

Hand tools Various screw drivers Tap set 2 pairs of Channel Locks Protractor Measuring tools (I used a tape measure and a caliper)

Drill, tap, and install the pipe flange.

To prepare the flywheel to accept the blades, you will need to drill and tap holes in 3 spots. I used 1/4"-20 thread machine screw for my blades.

Drill and tap the first, measure 120 degrees around, and repeat. You should now have 3 holes evenly spaced across the flywheel.

Screw the blades into the 3 holes you just drilled and tapped on the flywheel.

For the turbine to be most effective, the blades and flywheel should all be in balance. To be sure it's well balanced, spin the blades several times, marking whichever side ends up on bottom. The marks should all be spread around randomly. If they are all in one spot, you need to lighten that side by sanding or drilling away some material.

The turbine can be mounted on a portable stand (as pictured) and held with guy lines, or mounted to a permanent structure. I plan to permanently install mine on a marker post at the corner of the property.

Don't forget to vote for this instructable in the Remix contest.

Greetings, fellow proponents of sustainable living! Today, we embark on a journey to learn how to build a



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DIY wind turbine, and explore the potential of home made wind generators as an eco-conscious energy source for homes.

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