

Homemade wooden wind turbine blades

Can you build a wind turbine with PVC blades?

An easy introduction into DIY wind power generation is to make your own PVC wind turbine blades and fit them onto a permanent magnet alternator, Sturmeier Archer Dynohub or stepper motor. However, if you want to build a high power wind turbine which can survive for 20+ years, wooden wind turbine blades are well worth the cost and effort.

How do you make a wind turbine blade?

You have to make your wind turbine blade of something. I found that soft pine, found at home depot is fine and very easy to carve. And you can harden it later. You can also use hard woods, like maple, oak, etc, but good luck carving it.

What material should a wind turbine be made out of?

For diy wind turbines around this size, PVC is very often the material of choice. (audio only) This video walks you through the steps to carve wind turbine blades out of wood. Measurements are well explained and provided at the end. A short video that shows the steps and the tools to build great wind turbine blades.

How do I make my wind turbine blade look good?

Finally, sand the blade, and it will look great! Since Pine is a soft wood, it is susceptible to being nicked. I suggest you apply a few coats of wood hardener. Its cheap, and will make your wind turbine blade more durable. Then paint it. Don't get the cheap spray paint, it will take you 3 coats for it to even look good.

Are wooden wind turbine blades worth it?

However, if you want to build a high power wind turbine which can survive for 20+ years, wooden wind turbine blades are well worth the cost and effort. Only basic tools are required for making wind turbine blades from wood - a drawknife (pictured above), saw, hammer and chisel, and a plane.

What tools do you need to make a wind turbine blade?

Only basic tools are required for making wind turbine blades from wood - a drawknife (pictured above), saw, hammer and chisel, and a plane. If you have a power planer and a power band saw then the job will be much faster but the end result will be the same.

1) Begin by drawing out an overall sketch of the wind turbine, make sure you label everything: tower, generator, wooden base, blades, and the hub which connects the blades together. This image presents an example of a diagram of a wind ...

Lightweight core material such as balsa wood or polyurethane foam on the blade's trailing side; Metal foil for lightning protection; ... Still, fiberglass is the current king of ...

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