

Expert demonstration materials for wind turbine generators



Overview

Included are two easy to use spreadsheets for designing your generator and blades that eliminate the need to do all of the calculations yourself. Experiment with the pitch (angle setting) of turbine blades and find out the optimum number of blades for generating electricity. Nine blades, with three types of profiled. Learning Goals: Below are the learning targets for the wind energy unit. I can identify the major components of a wind turbine. Note that not all lessons and activities will exist under a unit, and instead may exist as "standalone" curriculum. Students learn how engineers transform wind.

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Wind Turbine Demonstration Guide

Objectives Learn about wind energy and turbines Learn about teamwork and problem solving Learn to be creative and innovative

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» Wind Turbine Experiment STEAM Experiments

Meta Description Discover how wind turbines work by building your own model. Observe the operation of a generator and learn how to power an LED in this exciting experiment.



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DIY WIND TURBINE DESIGN GUIDE

Want to design your own DIY wind turbine, but don't know where to start? Everything you need is right here. This design guide explains the process and the math involved in detail, but in layman's terms. ...

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Build a Wind Turbine To Generate Energy , Science Project

The Wind Energy Experimenter's Handbook is a resource for educators and experimenters. It contains experiments and activities focused on wind turbines ...

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Build a Wind Turbine To Generate Energy , Science Project

Find out how a wind turbine can use the power of the wind to generate energy in this science fair engineering project. You'll design various blades to find out which produces the most energy, and put ...

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Wind Energy Experimenter's Handbook - College of Engineering-Wind

The Wind Energy Experimenter's Handbook is a resource for educators and experimenters. It contains experiments and activities focused on wind turbines and their subsystems, to promote learning at a ...

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Wind Power Consulting

Exponent has led the wind energy consulting industry since the mid-1980s



and remains one of the most established and experienced consulting firms providing expertise in the areas of energy generation, ...

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Wind Energy Science Kit

With the Wind Energy Science Kit you can build a miniature power generation system that converts wind into electrical energy. Experiment with the pitch (angle setting) of turbine blades and find out the ...

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Wind Power! Designing a Wind Turbine

Students learn how engineers transform wind energy into electrical energy by building their own miniature wind turbines and measuring the electrical current they produce.

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Double Fed Induction Generator Wind Turbine

In this model, the YY? connected three-leg iron core transformer with laminated material is designed and each leg is modeled as a magnetic perme-ance.

Eddy current power losses are represented by ...

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Product Details



An Exploration of Wind Energy and Wind Turbines

I can explain how wind is produced and what makes for a good wind energy site. I can explain why electricity generated from wind is a "good" source of energy. I can identify the major components of a ...

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