CALIFORNIA STATE SCIENCE FAIR
2015 PROJECT SUMMARY

Name(s)
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Project Number
35782

Project Title
Recharging Batteries with a Windmill to Power an Electric Car

Abstract

Objectives/Goals
My project was to determine if wind can be harnessed and then put into electric cars.

Methods/Materials
wood, plywood, threaded steel rod, volt meter, generator/motor, battery holder, copper wire, bicycle wheel, nuts and washers, screws, staples, plastic sheeting, plexi glass, toy car kit with electric motor, diode

Cut wood into two S-like shapes. Screw wooden slats to both S-like shapes. Bolt sail onto threaded steel rod. Connect rod to axle of bicycle wheel. Bolt plexi glass disc onto threaded steel rod. Screw bicycle wheel onto plywood. Mount battery holder to plywood. Solder battery holder wires, generator/motor, and diode. Create stand for volt meter and motor/generator.

Results
My results confirmed that my hypothesis was correct. The information from my project expands our knowledge in alternative energy because it gives us a new way to think and learn of how to use wind to power vehicles that do not run on fossil fuels.

Conclusions/Discussion
My project was able to collect natural wind energy that got harnessed and put into batteries that were installed into an electric car.

Summary Statement
Collecting natural wind energy that is then harnessed in batteries that are then istalled into an elctric car.

Help Received
Sister took pictures; Dad supervised use of power tools; Mother funded purchases of materials.