CALIFORNIA STATE SCIENCE FAIR
2011 PROJECT SUMMARY

Name(s)
Madison E. Mathews

Project Number
31672

Project Title
Wind Powered Generators

Abstract

Objectives/Goals
My obejective is to see if more copper windings equals more miliamps. I think that the generator with more copper windings will produce more miliamps.

Methods/Materials
I built two generators with diffenecenes in copper windings on the outside. One generator had 500 copper windings, the other has 195 copper windings. Each generator was 36 inches away from the wind source. I tested each generator three times for 30 seconds.

Results
I found that the generator with 500 windings produced 250 miliamps. The other generator produced and average of 116.6. So the generator with 500 windings produced more miliamps.

Conclusions/Discussion
The number of copper winding makes a difference in the number of miliamps that the generator produces. This is because the electromagnetic feild has more volume of copper wire to transmit the electical current through.

Summary Statement
My project is to prove that the more copper windings there are on a generator will produce more miliamps.

Help Received
Father