



## CWSF 2010 - Peterborough, Ontario



## **Catch the Windy Wave to \$ave!**

**Division:** Life Sciences

Category: Junior

Region: City: School:

**Abstract:** This project examined the effectiveness of wind turbines, testing six

independent variables (number of blades, wind speed, altitude, blade materials, blade shape, and gear ratio) to optimize revolutions per minute (rpm) and voltage produced. A turbine with six Dutch blades, made of composite materials, with high altitude, wind speed, and gear ratio collected more kinetic energy from the wind, therefore generating more rpm and

voltage.



