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.