

CWSF 2011 - Toronto, Ontario



Wind Amplification - Let's Turn Up the Power!

Challenge: Energy

Category: Intermediate

Region:

City: ,

School:

Abstract: Power generation by a wind turbine increases eight-fold with doubled wind velocity. In this project, an apparatus which amplifies wind was designed, built, and tested. The apparatus increased the electricity generated by 1.7x on average. An analysis comparing amplified with traditional turbines found the amplified turbines to be more cost effective, more efficient in land use, and to show potential for the home market.

Awards	Value
Excellence Award - Intermediate - Silver Medal Sponsor: Youth Science Canada	\$700
The University of Western Ontario Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Total	\$2 700