



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	\$700
Sponsor: Youth Science Canada	
The University of Western Ontario Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Total	\$2 700



