

## CWSF 2010 - Peterborough, Ontario



### Ravi Doshi

#### Wake up the Windmill

**Division:** Life Sciences

**Category:** Junior

**Region:** Frontenac, Lennox & Addington

**City:** Kingston, ON

**School:** Calvin Park P.S.

**Abstract:** This project studied formation of a wake behind a windmill and its effect on power loss at downstream windmills. Home-designed small-scale windmills were used in different grid arrangements and their voltage output was measured using a multi-meter. The wake effect was demonstrated, and the size of the wake was inferred. Power loss of up to 60% was observed as a result of the wake.

#### Biography

My name is Ravi Doshi. I am 13 years old, and the younger of two brothers in my family. We live in Kingston, ON. I attend the grade 8 challenge program at Calvin Park P.S. My favourite subjects are physical education, history, geography, and science. Ice hockey is my favourite sport and I play at the bantam level in a defence position. My favourite NHL team is the Montreal Canadiens. My favourite player is Andrei Markov. I enjoy watching movies and socializing. I like to collect different types of money. I love to travel. I have visited India several times, in Canada I have gone up to Halifax in the east and Edmonton in the west. I am part of my school's tech team with two of my friends to help with our school's computer and audio-visual needs. I have participated in my school's Lego robotics team many times. Last year, our team won a silver medal at the Ontario skills competition. I aspire to become an engineer.

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