

# Build a Wind Turbine

Re-Energy  
Learner Worksheet  
Grade Level 6-12



Name: \_\_\_\_\_

## Experiment

Test your wind turbine and find out how much energy can be generated.

- Using a fan or hair dryer, or blowing directly on the blades, apply a high wind speed and a low wind speed. Record the voltage generated by the turbine in the chart below.

	Voltage Generated by Turbine
Low Speed	
High Speed	

## Questions

Experiment with your wind turbine model to find answers to the following questions.

1. Which wind speed produces the largest amount of electricity- the lower speed or the higher speed?

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2. What changes would you make to the design to improve the efficiency?

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3. What adjustments did your group have to make so that the wind turbine would run smoothly?.

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3. Describe how wind is made.

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5. List some ways that wind power has been used in the past.

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6. List some ways that wind power is used today.

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7. What are the benefits of using wind energy as a renewable energy resource?

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