

Worksheet



Re-Energy
Build a Wind Turbine

First 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	

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?

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

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

4. Describe how wind is made.

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

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

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