

Assignment #7: WIND ENERGY

name:

Go to <http://formontana.net> and then click on picture # 97.

1. Use your Montana Highway Map to find the town called Judith Gap (population 153) in central Montana. There are many wind generators located between Judith Gap and Harlowton. Which county are they in?
2. List three reasons this site in central Montana was chosen for the wind generator.
3. Use a dictionary or the Internet to find the definition for the word “turbine.”
4. What is the definition for the word “generator”?
5. How many homes can each generator provide electricity for?
6. What three things are needed for a generator to produce electricity?
7. **Click on the link to watch the short wind generator demonstration.** What is used to simulate wind in the demonstration?

8. What is the point of the demonstration?

9. What is used to prove to you that the motion of the turbine is actually making (generating) electricity?

10. **Go back to the web site with the picture of the wind generators (<http://formontana.net> #97).** What are the two main sources of electricity for Montanans?

11. Unfortunately the wind doesn't always blow . . . even in places like Judith Gap. Explain the problem that this creates for power companies who depend on wind generators to produce electricity for their customers?

12. Explain how the wind project shown in the pictures provides money (revenue) to Wheatland County (county government).