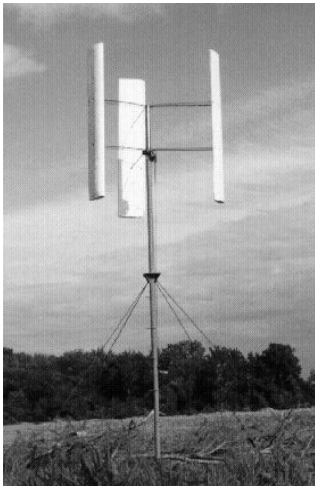


### Quiz 4 for Module 6: Wind Energy in Agriculture

1. What are the two main factors that create wind?
2. Where in the United States can some of the most wind potential be found?
3. Briefly explain the concept of mechanical wind power and give an example of its application on a farm.
4. Electrical wind power converts the rotational energy of a turbine into electrical current when it spins copper coils inside a \_\_\_\_\_.
5. What is the difference between an upwind and downwind wind turbine?
6. Label the turbine designs below as either horizontal axis or vertical axis:



A. \_\_\_\_\_



B. \_\_\_\_\_

7. What are two advantages to having small scale wind turbines?
8. Grid-tied renewable energy systems are:
- A. Exclusively for on-site power use.
  - B. Exclusively for delivery into power grid.
  - C. To be used on-site and also to overflow into the power grid.
9. Installing an off-grid wind energy system can be less expensive than extending a power line to the electrical grid. True or false?
10. What are two advantages to large scale wind energy production?

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