

# HOW DO WIND TURBINES WORK?

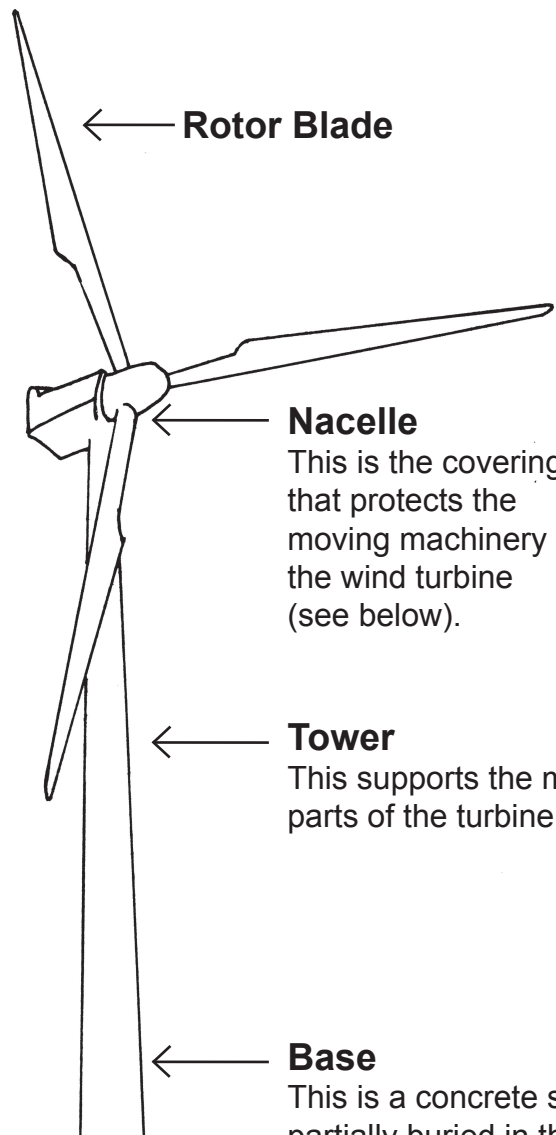
Typical wind turbines generate up to 2 MW of clean energy.

Wind turbines adjust the direction and angle of their blades in order to get the maximum benefit from the wind. The blades make these adjustments when they receive information sent by wind sensors on the nacelle.

When the wind blows, the turbine blades turn at an average rate of 8 revolutions per minute (rpm). The speed at which the blades turn depends on the speed of the wind.



- 1. Main Carrier
- 2. Yaw Motors
- 3. Annular Generator
- 4. Blade Adaptor
- 5. Rotor Hub
- 6. Rotor Blade



← **Rotor Blade**

← **Nacelle**  
This is the covering that protects the moving machinery of the wind turbine (see below).

← **Tower**  
This supports the moving parts of the turbine.

← **Base**  
This is a concrete slab, partially buried in the ground.