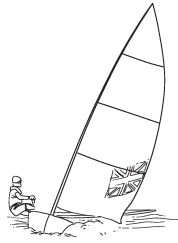


# Using Energy From The Wind

**Moving air** is called wind. It has **kinetic energy** and can be used by man to do work.

Sailing, which is an Olympic sport, requires man to harness the energy from the wind to move a sailboat across the sea.



Moving air is used to move the sailboat.

People built windmills to grind wheat and grains, and to pump water. The blades of the windmills move in a circular fashion when there is wind pushing them.

The vertical shaft has a heavy grindstone fixed to the bottom of it. When the shaft rotates, the grindstone rotates along with it. A second grindstone is found below the top grindstone; it does not rotate as it is fixed to the windmill base.

There is a space between the two grindstones. This is where the grains of wheat, oats, barley or other cereals are placed and grounded into a powder called flour.



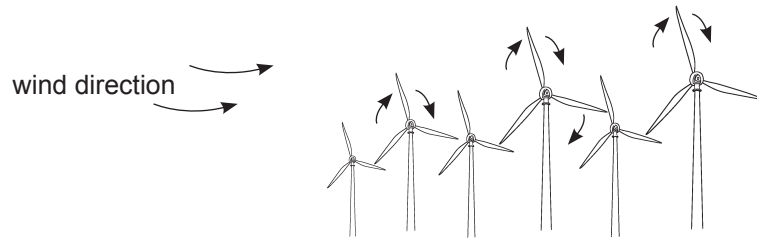
The inside workings of a windmill

Wind power plants (also known as wind farms) are clusters of wind machines found in a large extensive area. They are used to produce electricity.



**Example**

The Horse Hollow Wind Energy Centre in Texas is the world's largest wind farm. It has 421 wind turbines that generate enough electricity to power 220,000 homes a year.



A wind farm is a group of wind turbines used to generate electricity.