



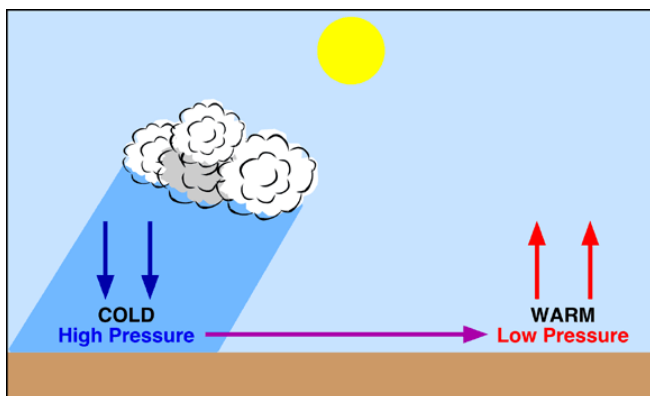
<http://www.darvill.clara.net/altenerg/>

### 1. Introduction

How long have we used wind power? \_\_\_\_\_ we've used the wind as an energy source for a long time. \_\_\_\_\_

How were we using wind? \_\_\_\_\_ we were using wind to pump water for irrigating crops, to grind corn and to make sailing boats move. \_\_\_\_\_

### 1. How it works

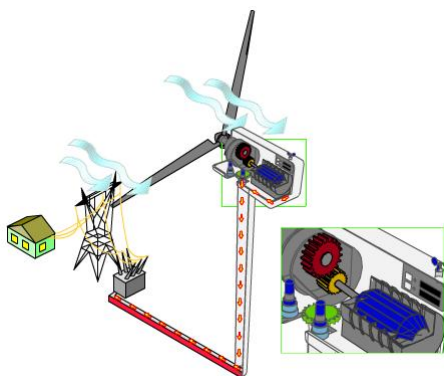


Describe how wind is created:

The sun heats our atmosphere unevenly so some patches become warmer than others.

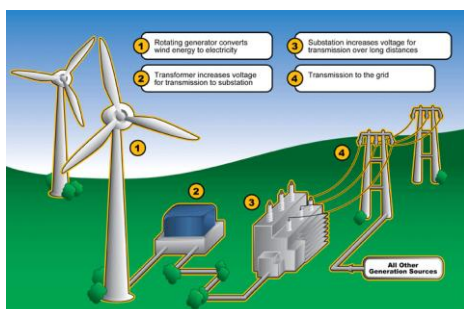
These warm patches of air rise, other air blows in to replace them, and we feel a wind blowing.

Describe how a wind turbine works:



A tall tower is built with a propeller on the top. The wind blows the propeller round, which turns a generator to produce electricity

When you've got a lot of wind turbine on the same place, the place is called a wind farm.



Correction

## 2. Where can you find wind-farms and why?

It's only worth building wind farms in places that have strong, steady winds. The best places for wind farms are in coastal areas, at the top of rounded hills, open plains and gaps in mountains – places where the wind is strong and reliable. To be worthwhile, you need an average wind speed of around 25 km/h.

## 2. Advantages and disadvantages

Advantages:	Disadvantages:
<ul style="list-style-type: none"> <li>- wind is free,</li> <li>- produces no waste or greenhouse gases,</li> <li>- the land beneath can usually still be used for farming,</li> <li>- wind farms can be tourist attractions</li> <li>- a good method of supplying energy to remote areas.</li> </ul>	<ul style="list-style-type: none"> <li>- the wind is not always predictable,</li> <li>- suitable areas for wind farms are often near the coast, where land is expensive,</li> <li>- some people feel that covering the landscape with these towers is unsightly,</li> <li>- can kill birds,</li> <li>- can affect television reception if you live nearby,</li> <li>- can be noisy.</li> </ul>

## 2. Summary

- Wind Power is renewable
- Doesn't cause pollution, doesn't need fuel
- Need a lot of generators to get a sensible amount of power
- Need to put them where winds are reliable

## Quiz:

Wind power is **renewable**, does not need any **fuel** and does not produce any **pollution**.

However, you need a lot of **generators** to make a large amount of power, and you must put them where the winds are **strong** and **reliable**.

Wind farms can be **noisy** if you live close. Most wind farms in the UK are in **Wales** and **Cornwall**.