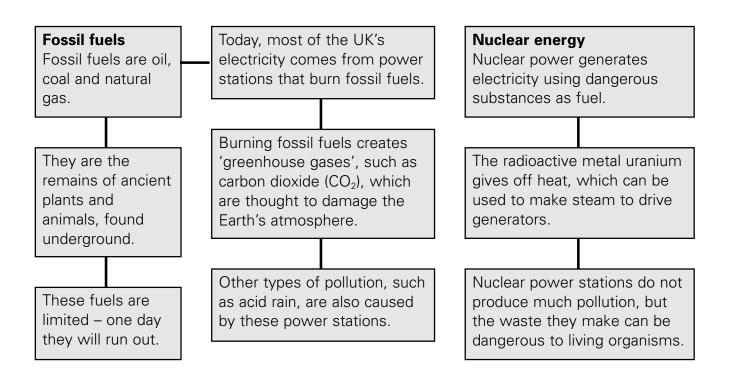
## Non-renewable energy



### Research

- 1. What is climate change?
- 2. What has it got to do with supplying energy?

3. What is acid rain?

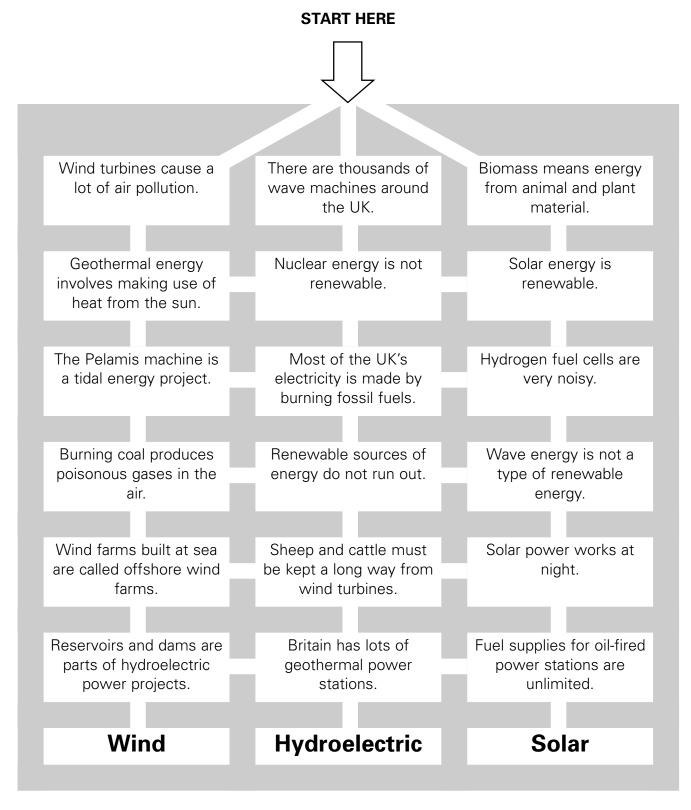
- 4. Why are fossil fuels not renewable?
- 5. Write down two disadvantages of coal as a fuel.

6. In addition to burning it to make electricity, what else is oil used for?

7. Why are the UK's nuclear power stations all by the sea?

# The renewable energy maze

There is only one correct way through this maze – it follows all the **true statements**. Colour your way through the maze. Which type of renewable energy do you reach?



## Compare types of renewable energy

Here are the eight types of renewable energy.

## Wind Waves Solar Biomass Tidal Hydroelectric Geothermal Hydrogen fuel cells

- 1. Which renewables depend heavily on the weather?
- **2.** Which renewables can work on a small scale (e.g. to provide energy for just one building)?
- **3.** Which renewables have the smallest effect on the environment?
- 4. Which renewable projects are very expensive to build?
- 5. Which renewables are the most suitable for the UK?

6. Identify the renewable (circle the answer).

a) It uses PV cells.	Hydroelectric	Solar	Biomass
b) It needs a supply of gas.	Fuel cells	Geothermal	Wave
c) It produces gas from rubbish.	Biomass	Wind	Hydroelectric
d) It uses heat from the Earth.	Fuel cells	Biomass	Geothermal

# A mock public inquiry

When a large renewable energy project such as a new wind farm is planned for a particular place, there is always a chance for people to say what they think about the idea before it goes ahead.

Some people might agree with it being built there, and some people might object to it. If there is a lot of disagreement, there may need to be a **public planning inquiry** to decide whether to build it or not.

### What to do

- Read the box about public planning inquiries. Your class is going to hold a mock (pretend) public inquiry to decide if a new wind farm should be built on hills close to a village in the countryside.
- **2.** Your teacher will tell you which side you are on: for or against.

#### I am \_\_\_\_\_\_ the new wind farm.

- **3.** You must work as a team to convince the commissioner (your teacher) that you are right.
- You need to write a short written statement (50 words) to sum up your three main arguments. Also think of what you will say to support your arguments.
- **5.** You can also collect pictures, facts or other information to help you convince the commissioner.

#### Our three main arguments

#### Public planning inquiry

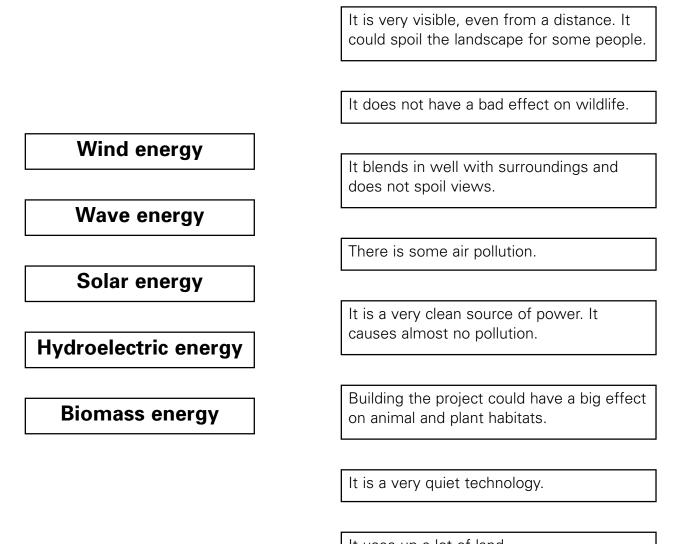
- It is a meeting to decide if a project or building should be built in a particular place. It is like a court in some ways.
- There is one person in charge the **commissioner**.
- Each side (the people for and against the plans) reads out a **written statement** explaining their views.
- Anybody else at the meeting can also speak to give their **opinions**.
- The two sides can call witnesses, e.g. experts who can say whether the chosen site is the best place for the planned project. These people can be questioned.
- **Documents**, containing **evidence**, can be given to the commissioner by each side.
- The commissioner reads out a summary of evidence then **decides** whether the plans should go ahead or not.

1.

2.

# **Renewables and the environment**

 Draw lines to match each type of renewable energy on the left with the boxes that show how the environment is affected. You may match each renewable with more than one box.



It uses up a lot of land.

**2.** Write down which renewable you think is best for the environment. Explain why.