

# Nature's Energy

We Meet our growing energy demands by using a mixture of **non-renewable** and **renewable** fuels.

|                   |                                                  |
|-------------------|--------------------------------------------------|
| Renewable energy  | Energy from natural sources that doesn't run out |
| Non-renewable     | Energy from natural sources that does run out.   |
| Fossil Fuels      | These are made from dead plants and animals.     |
| Biofuel           | Made from waste products and crops .             |
| Nuclear fuel      | Releasing energy due to nuclear reactions.       |
| Solar energy      | Using the sun's rays to capture energy.          |
| Hydro power       | Using water to produce energy                    |
| Geothermal Energy | Using the earth's heat to produce energy         |
| Wind energy       | Using the wind to produce energy.                |

## Energy and the environment.

Fossil fuels produce increased levels of greenhouse gases, which cause global warming.

Nuclear fuel produces radioactive waste.

Renewable energy resources will never run out, they do not produce harmful waste products and they can be used in remote places. However, they sometimes have a negative impact on the environment.

## Energy Demands

Our energy demands are met mostly by oil. Coal and gas. Renewable resources provide energy to generate some of the energy you use. Countries around the world are attempting to use more renewable energy resources to combat the effect of global warming.

## Power from the Sun and Earth

Solar cells use the Sun's energy to generate electricity.

Geothermal energy comes from the energy transferred by heat deep inside the Earth.

## Energy from Wind and water.

Wind turbines are an electricity generator.

Waves generate electricity by turning a floating generator.

Hydroelectricity generators are turned by water running downhill.

Tidal power station traps each high tide and uses it to turn a generator.

## Four-figure grid references.

Remember: use the 'L' to find the square.

Read the numbers across first and then to the side. 0 is a number.