



What is renewable energy?

Renewable energy comes from natural resources that are naturally replenished, such as sunlight, wind and waves.

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Non-renewable energy comes from natural resources that are not naturally replenished, such as oil and coal.



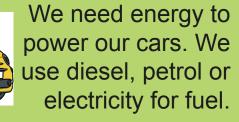
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Gas is used to cook our food and to heat our homes and water.

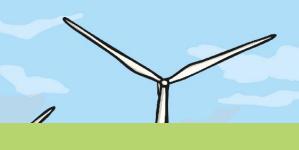
III



We use electricity to power lots of things, such as lights, televisions and computers.



What Don't We Use Renewable Energy All the Time?



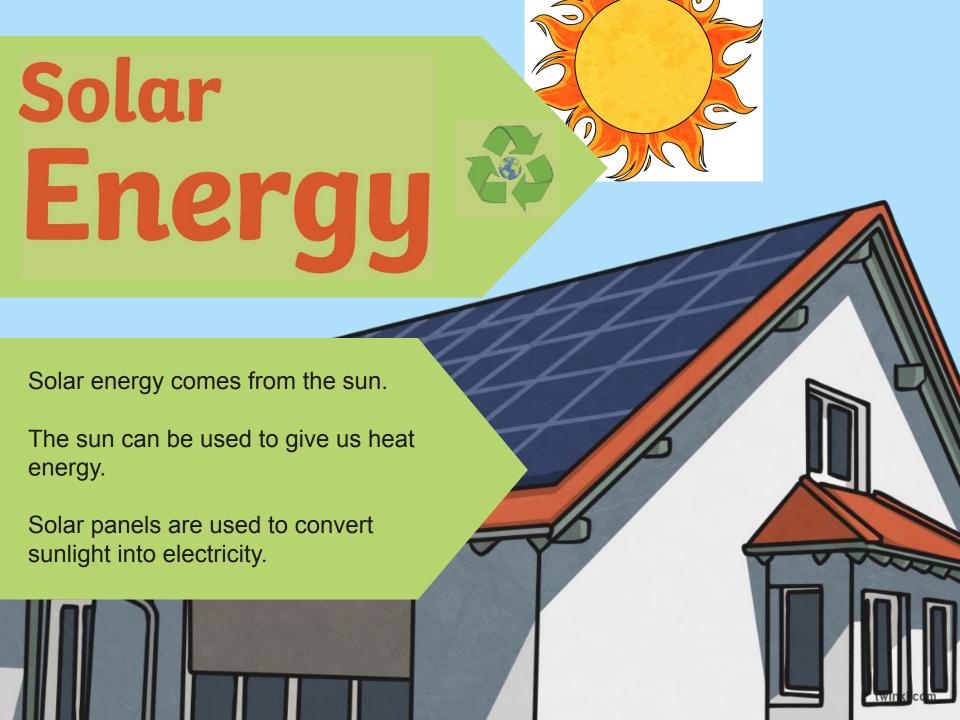
Renewable energy, such as wind or sunshine, can't be stored to be used whenever we need it

Non-renewable resources, such as oil or coal, can be stored and used when they are needed.

If the wind doesn't blow, or if it isn't very sunny, then there may not be enough power for everyone.

Non-renewable energy is usually cheaper than renewable energy, which means not everyone can afford to use renewable energy.







Wind turbines are used to convert wind energy to electricity.

The wind blows the blades around and this movement is converted into electricity.

A group of wind turbines is called a wind farm.

Hydropower Energy





Hydropower is energy that comes from moving water.

Water that flows down fast-flowing rivers is used to spin turbines that generate electricity.

The movement of big waves at sea can also be used to generate energy.



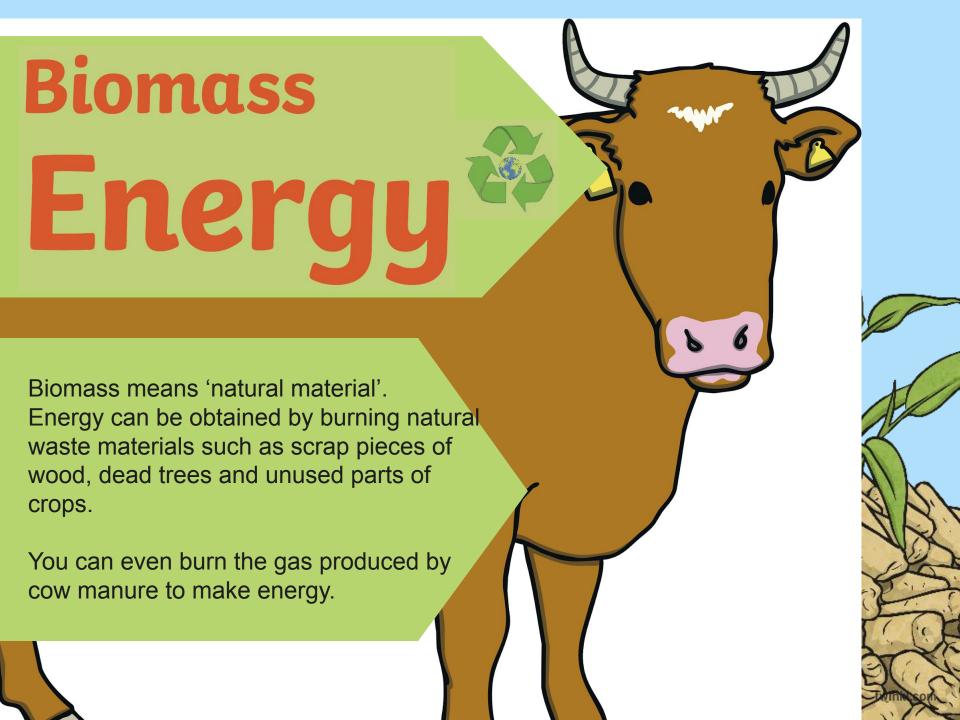
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Geothermal energy is thermal energy generated and stored in the earth.

It is always very warm underground, even if it is very cold on the surface.

We can collect heat from underground and use it to heat our houses.

The lava from volcanoes shows us how hot it is underground.



Coal Energy

Coal is mined from under the ground and burned in large power stations to produce electricity.

The coal that we use cannot be replaced so one day there will be no coal left.

Burning coal is bad for the environment because lots of carbon dioxide gets released into the atmosphere.

