



**What is ALTERNATIVE ENERGY?**

# What is Carbon Dioxide?



Carbon dioxide (CO<sub>2</sub>) is not only one of the most important greenhouse gases, it is found all around us: in the air we breathe; in the air we exhale; in fizzy drinks; in cakes, which rise thanks to the CO<sub>2</sub> produced by baking powder; and when organic compounds such as paraffin, paper, wood or petroleum are burned.

In liquid form, it is used in fire extinguishers and as a refrigerant in the food industry (for example to store and transport ice cream). In high concentrations, CO<sub>2</sub> can become dangerous for humans and other animals, but it is also the source of life: during photosynthesis, plants use CO<sub>2</sub> and light to produce sugar, starch, fats and proteins, as well as the oxygen we need to survive.

# What a waste!

Organize the following statements into the correct columns.

Leaving the television on 'stand by'

Filling the bath.

Using energy-saving lightbulbs.

Turning the central heating down one notch.

Wasteful

Energy-saving

Leaving the computer on.

Having a shower.

Turning off the lights as you leave a room.

The energy we use in our homes contributes up to a quarter of the carbon dioxide released in the UK!

How do we use energy in our homes?

| In the kitchen | In the bedroom | In the living room |
|----------------|----------------|--------------------|
|                |                |                    |

# Read and print the following reports.

Colour the facts **red**.

Colour the opinions **green**.

**Street lights across Wales switched off to save money:**

*20 Sept 2011*

<http://www.bbc.co.uk/news/uk-wales-14915485>

**Street lights to go back on in Powys:**

*24 Oct 2012*

<http://www.bbc.co.uk/news/uk-wales-mid-wales-20029122>

**Street lights 'switched off to save money' by councils:**

*22 Dec 2014*

<http://www.bbc.co.uk/news/uk-politics-30569215>

Watch this short film



**Lights Out:**

<https://www.youtube.com/watch?v=29vmepNMN9Y>

# How can we be more green?

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# What will happen if we do nothing?

