

Alternative energy use

How can we go green?

There are many ways in which to go green and save the planet. One way is to **use less energy**. We can:

- Switch off gadgets when we are not using them,
- Use low energy bulbs,
- Drive smaller cars or more fuel , efficient cars.

 What other ways can you think of to use less energy?

Are there alternatives?

Yes. In addition to using less electricity, we could make sure we **use cleaner energy**. Cleaner energy is one that does not pollute the environment. They use sources of energy which will not run out and they are called **renewable energy sources**. Some sources of energy will run out one day and these are called **non-renewable energy sources**.



*Solar energy - Good for the environment.
Bad during the night or when it snows.*



Ways in which we can be environmentally friendly.

 What other ways can you think of to be environmentally friendly?

Good or bad?

All forms of energy have good points and bad points about them. The heating in this house went off on a cold day in winter because it had started snowing and the snow covered up the solar panels.

 Can you work out the good points and bad points of different energy sources?

Renewable energy

V.

Non-Renewable energy



wind energy



gas plant



solar energy



bioenergy



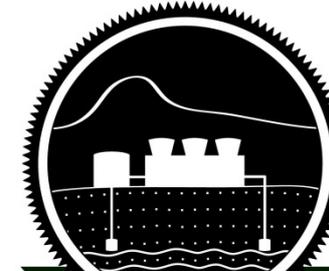
wave power



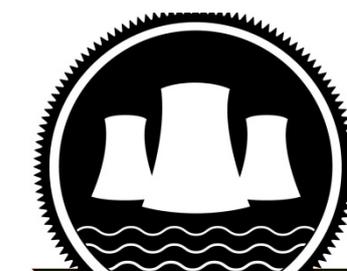
tidal power



coal plant



geothermal energy



nuclear plant



hydroelectricity

Your task:

Look at the sources of energy listed here. For each picture, say whether you think it is renewable or non-renewable source of energy.

WIND POWER

Good points

Bad points



No waste

No water used, no CO2 produced, no by-products.

Renewable

Endless resource that will not be used up.

Low running costs

Once up and running, the daily expenses are low.

Expensive to build

Initial costs are high as need to survive extreme weather and building at sea can be very expensive.

Intermittent

If there is no wind, you have no power.

Offshore sites avoid people

Wind farms can be located out to sea avoiding scenic locations or heavily populated places.

Allows multi-role land use

The land around wind turbines can be used for farming.

Tourist attraction

Wind farms can become tourist attractions.

Noise pollution

Wind farms produce low level noise audible up to a kilometre away.

Spoil the look of an area

Some people find wind farms to be unsightly.

Interference

Can affect TV reception and aircraft radar.

Affect defence

The Air Force don't like them as they affect their radar signals.

Possibly affects wildlife

It is thought that they might affect bird migrations.

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Renewable



gas plant

Non-renewable



solar energy

Renewable



bioenergy

Renewable



wave power

Renewable



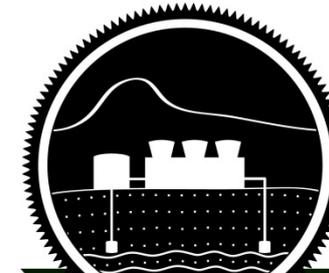
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