



Year 6 Energy and Climate Change

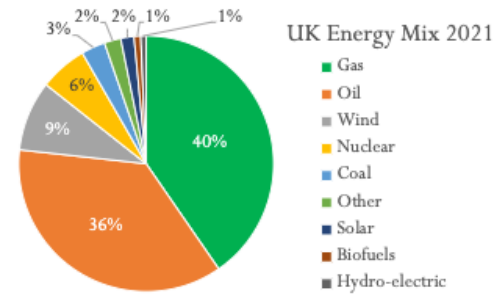
Key vocabulary

energy mix	The combination of power sources and the amount of energy the source supplies.
generate	To create or cause something.
source	The place something comes from or starts at.
solar power	Power generated from the sun.
renewable energy	Energy sources that can be constantly renewed and will not run out.
non-renewable energy	Energy sources that can only be burned once and are not replaced.
emissions	To send out gas, heat or light.
knot	A unit of measurement of speed, equivalent to 1.85 kilometres per hour.
climate change	Changes in the world's weather as a result of human activity, particularly of the planet getting warmer.

The gases in our atmosphere help us to breathe but they can also trap heat and keep heat in. This is called the greenhouse effect. The more gases there are, the hotter Earth becomes.



These energy sources are constantly renewed and will not run out in our lifetimes. Most do not emit carbon.



The UK uses different power sources for heating, transport, cooking and electricity. Our largest source of power is gas (40%) and oil is second (36%). These are our main sources of power.

Melting sea ice, leading to rising sea levels and harming wildlife and coastal areas.

Acidification of oceans from carbon absorption, which harms wildlife.

More extreme weather such as drought, floods, hurricanes and tornadoes.

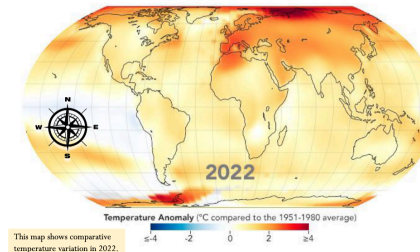
Deforestation and reduced harvest of crops due to drought.

Effects of Climate Change

Wildlife are struggling to survive in habitats that are becoming warmer.

Intense wildfires across dry ecosystems.

Since 1880, the average global temperature has risen by 1°C, due to an increase in greenhouse gases.



These energy sources can only be burned once and are not replaced. These fossil fuels release lots of carbon dioxide, which contributes to climate change.

Renewable Energy	Non-renewable Energy
Wind	Coal
Solar (sun)	Oil
Water (tidal, wave and geothermal, hydro-electric power)	Gas
Biofuel (plants)	