

# Edexcel IAL Geography

## Energy Security Glossary of Definitions



**Acidification** - The gradual reduction of pH of the oceans, due to dissolving carbon dioxide from the atmosphere.

**Biofuel** - Burning crops and vegetation for electricity and heat.

**Carbon Capture and Storage (CCS)** - The capture of carbon dioxide emissions directly from the factory, pumped into disused mines rather than being released into the atmosphere.

**Carbon Neutral** - A process that has no net addition of carbon dioxide to the environment.

**Choke Points** - Points in the logistics of energy and fuel that are prone to restriction.

**Combustion** - The process of burning a substance, in the presence of oxygen, to release energy.

**Energy Mix** - The composition of a country's energy sources.

**Energy Security** - The International Energy Agency (IEA) defines energy security as "the uninterrupted availability of energy sources at an affordable price".

**Energy Pathway** - The movement of energy from its extraction or source, through pipes, freight logistics or cabling.

**Energy Players** - Key companies and individuals who own, distribute and sell energy and energy sources.

**Enhanced Greenhouse Effect** - The build-up of greenhouse gases in the atmosphere, reducing the amount of solar radiation reflected into space.

**Fallout** - The area covered by radioactive particles and material following a nuclear disaster.

**Non-Renewable** - A source of energy that can only be used once to generate electricity or takes thousands of years to replace e.g. Fossil Fuels.

**Nuclear Fusion** - The process of joining atomic nuclei together, to produce energy.

**OPEC** - Oil and Petroleum exporting countries. An organisation that supports and coordinates fossil fuel exporting countries.

**Primary Energy** - The initial source of energy, as it is naturally found. This could be natural ores, water, crops or radioactive material.

**Renewable** - Primary energy that can be re-used to produce electricity or has a short lifetime, therefore any used can be replaced quickly e.g. Hydroelectric, biomass, solar.

**Secondary Energy** - The product of primary energy, mostly electricity.



**Respiration** - The process of converting glucose and oxygen into carbon dioxide and energy. Some organisms rely on respiration to survive.

**Secondary Energy** - The product of primary energy, mostly electricity.

