

# Edexcel Geography A-level

## The Carbon Cycle & Energy Security

### Definition Flashcards

# Acidification

## Acidification

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

# Afforestation

# Afforestation

Planting trees and vegetation in the aim of increasing forest cover.

更多信息请联系

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# Biofuel

[www.alevel.org.com](http://www.alevel.org.com)

[www.qyconsult.com](http://www.qyconsult.com)

[www.tutorhao.com](http://www.tutorhao.com)

# Biofuel

Burning crops and vegetation for  
electricity and heat.

# Carbon Capture & Storage (CCS)

## Carbon Capture & Storage (CCS)

The capture of carbon dioxide emissions directly from the factory, pumped into disused mines rather than being released into the atmosphere.

# Carbon Fluxes

# Carbon Fluxes

The movement of carbon between stores.

# Carbon Neutral

# Carbon Neutral

A process that has no net addition of carbon dioxide to the environment.

# Carbon Stores

# Carbon Stores

Places where carbon accumulates for a period of time such as rocks and plant matter.

# Choke Points

# Choke Points

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

# Combustion

# Combustion

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

# Decomposition

# Decomposition

The break down of matter, often by a decomposer which releases carbon dioxide through their own respiration.

# Energy Mix

# Energy Mix

The composition of a country's energy sources.

# Energy Security

# Energy Security

The ownership and full control of a country's energy source, production and transportation.

# Energy Pathway

# Energy Pathway

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

# Energy Players

# Energy Players

Key companies and individuals who own, distribute and sell energy and energy sources.

# Enhanced Greenhouse Effect

## Enhanced Greenhouse Effect

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

# Inorganic Carbon

# Inorganic Carbon

Carbon stored in carbonated rocks.

# Non-Renewable

## 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

# Nuclear Fusion

The process of joining atomic nuclei together, to produce energy.

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# OPEC

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# OPEC

Oil & Petroleum exporting countries. An organisation that supports and coordinates fossil fuel exporting countries.

# Organic Carbon

# Organic Carbon

Carbon stored in plant material and living organisms.

# Outgassing

# Outgassing

The release of dissolved carbon dioxide (e.g. at plate boundaries, warming the oceans).

# Photosynthesis

# Photosynthesis

The process of converting carbon dioxide and water into glucose and oxygen. All plants and some organisms rely on this process to survive.

# Phytoplankton

# Phytoplankton

Small organisms that rely on photosynthesis to survive, so intake carbon dioxide from the atmosphere.

# Primary Energy

## Primary Energy

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

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# Renewable

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## 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.

# Respiration

# Respiration

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

# Secondary Energy

# Secondary Energy

The product of primary energy, mostly electricity.

# Sequestration

# Sequestration

The transfer of carbon from the atmosphere to stores elsewhere - living biosphere, inorganic rocks, etc.

# Thermohaline Circulation

# Thermohaline Circulation

The movement of volumes of seawater from cold deep water to warm water surface water.

# Tipping Point

## Tipping Point

A critical threshold where any changes to a system after the tipping point are irreversible.

# Urbanisation

# Urbanisation

The growth of populations in towns and cities.