

# ENERGY RESOURCES

## Renewable

**Tidal**  
predictable

has to be built across estuary (tidal meet stream)

**hydroelectric:**

pumped storage, excess energy is used to pump water back up

expensive to build  
has to be in area with rain fall

**Solar**  
no gas pollution  
only works in daytime

## RENEWABLE ENERGY RESOURCES

**biomass/fuel**  
carbon neutral  
loss of food + habitats

**geothermal** - no pollution gas  
can only be built in certain areas (volcanic)

**wave**  
no gas pollution  
weather/wave dependant

**wind** - can be put off shore in sea  
no gas pollution  
noise + visual pollution  
weather dependant

## non-renewable

advantages

disadvantages

**fossil fuels:**

scarce resource

produces CO<sub>2</sub> (global warming)

coal produces 80% of electricity in UK  
oil: main

## NON-RENEWABLE ENERGY RESOURCES

**nuclear**

no polluting gas

produces radioactive waste

use uranium/plutonium  
nuclear fission  
produces heat

**DENSITY** ~ a measurement of how much mass there is in a given space.  
**DENSITY = MASS / VOLUME**

the density of an object is 8050 kg/m<sup>3</sup> and has a volume of 3.4 m<sup>3</sup>, what is the mass?

$$8050 = \text{mass} \div 3.4, \quad 8050 \times 3.4 = \text{mass}$$

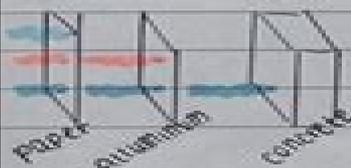
$$\text{mass} = 27370 \text{ kg}$$

A MORE DENSE MATERIAL WILL HAVE MORE PARTICLES IN THE SAME VOLUME WHEN COMPARED TO A LESS DENSE MATERIAL.



## RADIO ACTIVITY

**alpha radiation** consists of alpha particles. An alpha particle is identical to the nucleus of helium atom, which is 2 protons + 2 neutrons.



**beta radiation** consists of high energy electrons emitted from the nucleus. They form when a neutron splits into a proton and an electron.

**gamma radiation** is very short wavelength, high frequency, electromagnetic radiation which is similar to other types of electromagnetic radiation, such as visible light.

# Gcse Physics Notes

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