

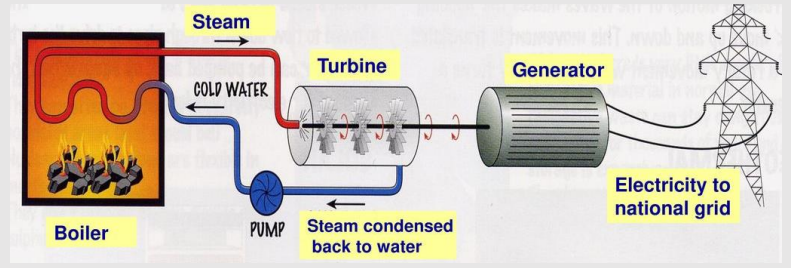
Physics: Energy Resources & Power Stations

Key word	Definition
Energy resource	Materials or mechanisms for heating or generating electricity
Fossil fuel	Coal, oil and gas made from the remains of trees and sea creatures over millions of years
Renewable	Energy resources whose supply will not run out
Non-renewable	Energy resources that have a limited supply
Generating	To produce or create
Transfer	To move from one place or form to another
Reliable energy	A method of creating electricity which can be used whenever it is needed

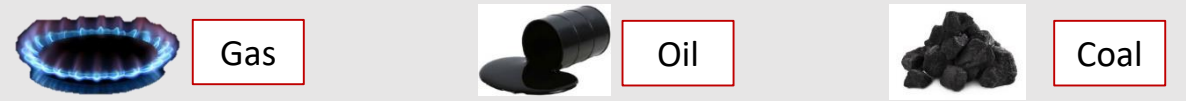
Energy resource	Originally from the Sun?
Coal	✓
Wind	✓
Oil	✓
Solar	✓
Biomass	✓
Gas	✓

Non - renewable
Fossil fuels are **non-renewable** and can be burned in **power stations** to heat water producing steam. This turns a turbine to **generate** electricity.

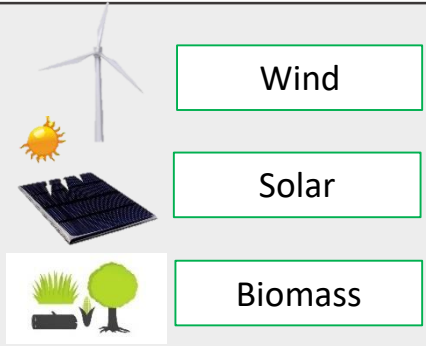
- Disadvantages**
- Produce lots of carbon dioxide
 - Produce lots of pollution
 - Will run out



- Advantages**
- Relatively cheap
 - Reliable energy



Renewable
Renewable resources will not run out. Many come from the store of energy of the Sun.



- Advantages**
- Doesn't produce much carbon dioxide
 - Doesn't produce lots of pollution
 - Will not run out

- Disadvantages**
- Can be expensive
 - Not always **reliable** (E.g. It's not always windy!)

