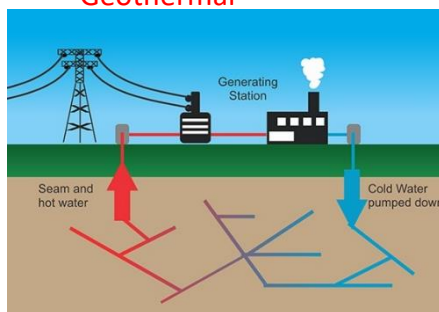


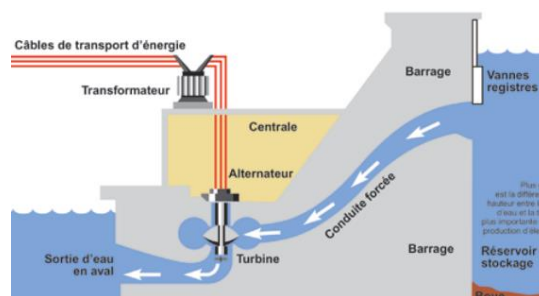
### P3 Energy resources revision questions **ANSWERS**

1	Name the 3 fossil fuels	Coal , oil, gas
2	Give 2 disadvantages of using fossil fuels for energy production	Air pollution/ acid rain ( coal) / release CO <sub>2</sub> – global warming
3	What is meant by the term carbon neutral ?	They do not release a net amount of CO <sub>2</sub> into the atmosphere.
4	Name a non renewable source which is also carbon neutral.	Nuclear
5	What type of renewable energy only works at certain times of the day	Tidal, solar
6	What 2 types of energy can only be used in certain terrain ?	Hydroelectric ( mountainous) , Geothermal (volcanic)
7	Why are wind, wave and solar thought of as unreliable?	They depend on the weather
8	Give a negative environmental impact of a Hydroelectric scheme	Habitat destruction – damming / flooding / disruption of river flow
9	At what two times in the day is the demand for electricity greatest ? Why ?	Early morning – [people get up – breakfast/shower ready for work Evening – preparing meals/ drinks/ showers / baths/ TV
10	Describe how a pumped storage hydroelectric scheme works	Spare electricity at night is used to pump water back up to the top reservoir until it is needed when demand > supply. It can then be released back down
11	What two costs must be considered when choosing how to make electricity ?	Capital costs- per Kw or MW of capacity -0 to build and dismantle Per KWh of energy – cost to make per unit
12	What makes Nuclear and wind expensive options ?	Expensive to set up and decommission.
13	How is a nuclear power station different to a fossil fuelled power station?	It has a reactor to heat water rather than a furnace/ uses fission not combustion
14	Which parts are common to both Nuclear and fossil fuelled power stations ?	Turbine, generator
15	In what way is a gas fuelled power station more useful than a nuclear power station? (and vice versa ?)	Much quicker start up time Fuel will last much longer/ carbon neutral/ No CO <sub>2</sub>
16	Why must a future energy supply come from a variety of sources	It needs renewables to be sustainable but Non renewables to cope with the base ( average) demand
17	Why is the demand for energy likely to increase in the future ?	Population growth/ more technology / industrialisation
18	Label the energy sources for each picture below	

**Geothermal**



**Hydroelectric**



**Tidal**

