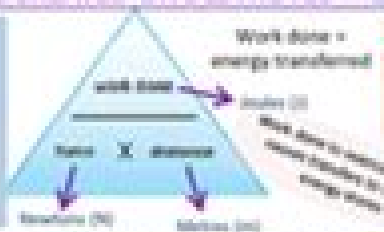


ENERGY CANNOT BE CREATED OR DESTROYED – ONLY TRANSFERRED

CONSERVATION OF ENERGY

In closed systems the total energy remains the same, nothing is lost externally.



Useful energy out
Light 60J
Heat 40J
Total 100J

Efficiency = $\frac{\text{useful energy out}}{\text{total energy in}}$

To increase efficiency:

- Lubricate moving parts to reduce friction
- Use low resistance wiring
- Aerodynamic shape to reduce air resistance
- Reduce vibrations of loose parts

Useful = light 60J
Total = 60+40+10 = 110J
 $60 \div 110 = 0.545$ 0.545 x 100 = 54.5%

The more powerful an object, the faster the rate at which it transfers energy

Kinetic energy



Elastic potential energy

$$E_e = \frac{1}{2} kx^2$$

E_e = Potential energy
 k = Spring constant
 x = extension of spring



Important: the extension of a spring is directly proportional to force applied as long as the proportionality limit isn't exceeded

Specific Heat Capacity

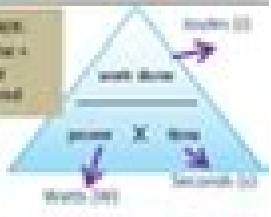
The amount of energy needed to raise the temperature of 1kg of a substance by 1°C



The higher the heat capacity, the more energy needed to raise the temperature

POWER

Wasted energy = Total power in - useful energy



Appliance	Power rating
Toaster	1000
Light bulb	100W
Car engine	100000W

Physics Paper 1

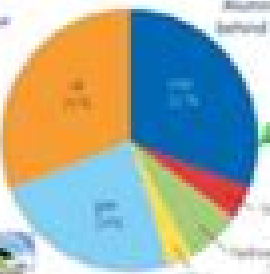
Insulating buildings



- Degrees Celsius (°C)
- Kilograms (kg)
- Joules (J)
- Joules per kilogram per degree Celsius (J/kg °C)



Conduction



Energy demands!!

Wind Wave Tidal Geothermal

Renewable Energy: Energy from natural resources that are always being replenished, therefore won't run out

Hydroelectric

Non-Renewable Energy

Energy from sources such as fossil fuels, which have limited supply and will eventually run out

Fossil fuels

Nuclear

Carbon Neutral: when an organism (e.g. humans) takes in as much carbon dioxide from the atmosphere as they release when burned

Q = mcΔT
Q = heat energy
m = mass
c = specific heat capacity
ΔT = temperature change

Prefix	10 ¹²	10 ⁹	10 ⁶	10 ³	10 ⁰	10 ⁻³	10 ⁻⁶	10 ⁻⁹	10 ⁻¹²
Symbol	T	G	M	k		m	μ	n	p
Multiplying factor	10 ¹²	10 ⁹	10 ⁶	10 ³	10 ⁰	10 ⁻³	10 ⁻⁶	10 ⁻⁹	10 ⁻¹²

Energy Resource	Process	Advantages	Disadvantages
Wind	Wind turbines rotated using wind, which rotates generators	Renewable, no greenhouse gases	Reliability - wind (lower energy transfer), Wind and noise pollution
Tidal	Electricity solar radiation, heats up water floating through pipes	Renewable, no greenhouse gases	Reliability - sun (lower energy transfer), Wind pollution
Wave	Floating generators move up and down harnessing internal generation	Renewable, no greenhouse gases	Reliability - waves (lower energy transfer), Wind pollution
Geothermal	Energy from earth's radioactive substances, heat water which turns turbines/generators	Renewable, no greenhouse gases	Reliability (lower energy transfer), Only in ground
Hydroelectric	Waterfalls collected in reservoirs are released downhill to turn a shaft, rotating turbines which then drive generators	Renewable, no greenhouse gases	Reliability - sun (lower energy transfer), Wind and noise pollution, loss of habitat
Solar	Solar panels convert sunlight into electricity	Renewable, no greenhouse gases	Reliability - sun (lower energy transfer), Wind and noise pollution, loss of habitat
Fossil fuels	Coal, oil or gas burning in power stations, heat water into steam which turns turbines/generators	Reliable, high demand, Transfers higher quantities of energy than renewables	Still run out, Release high amounts of carbon dioxide, greenhouse gases and particulates into atmosphere
Nuclear	Using uranium or plutonium rods in controlled reaction, absorbing energy transferred during nuclear reactions	No fossil fuels, More energy transferred per kg than fossil fuels	Radioactive waste, Storage for centuries, leaks/explosions in reactors releases radioactive material

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Jessica J Manson



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