

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
Wasted energy out

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 60W
Total = 60+20+20 = 100
 $60 \div 100 = 0.6$ 0.6 x 100 = 60%

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



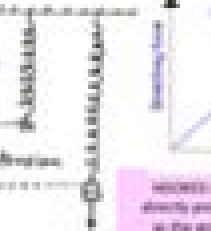
POWER

Wasted energy
= Total power in - useful energy

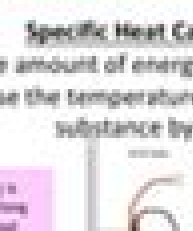
Appliance	Power rating
Toaster	1000
Light bulb	100W
Car horn	10000W

$$\text{efficiency} = \left(\frac{\text{useful power out}}{\text{total power in}} \right) \times 100$$

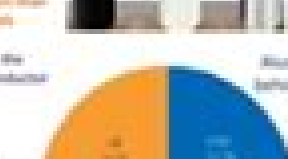
Physics Paper 1



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



Conduction



Energy demands!!

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

Non-Renewable Energy: Energy from sources such as fossil fuels, which have limited supply and will eventually run out.

Carbon Neutral: when an organism (e.g. biofuels) 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	Symbol	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁷	10 ⁸
Symbol		da	deca	hecto	kilo	mega	giga	tera	peta
Multiplying factor		10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁷	10 ⁸

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.
Solar	Absorbs solar radiation, heats up water flowing through pipes.	Renewable, no greenhouse gases.	Reliability - sun (lower energy transfer), Wind pollution.
Wave	Flowing generation, wave up and down turning internal generators.	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	Water collected in reservoirs and released through turbines, rotating turbines which turn other generators.	Renewable, no greenhouse gases.	Reliability - sun (lower energy transfer), Wind and noise pollution, loss of habitat.
Fossil fuels	Burning coal, oil or gas, turning it into electricity, heat water 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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