

ENERGY CANNOT BE CREATED OR DESTROYED – ONLY TRANSFERRED

CONSERVATION OF ENERGY

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



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

Useful = light 60W
Total = 60+20+20 = 100
 $60 \div 100 = 0.60$ 0.60 x 100 = 60%

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



Control - size of beaker, volume of water, thickness of material, same thermometer, time left for

Prefix	giga	mega	kilo	centi	milli	micro	nan	pico
Symbol	G	M	k	c	m	μ	n	p
Multiplying factor	10^9	10^6	10^3	10^{-2}	10^{-3}	10^{-6}	10^{-9}	10^{-12}



Physics Paper 1

Insulating buildings



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.

To increase efficiency:
Lubricate moving parts to reduce friction
Use low resistance wiring
Aerodynamic shape to reduce air resistance
Reduce vibrations of loose parts

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



Wasted energy = Total power in - useful energy
efficiency = $\frac{\text{useful power out}}{\text{total power in}} \times 100$

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	Solar cells collect radiation, heat up water flowing 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	Water collected in reservoirs and released downhill to turn a dam, rotating turbines which then drive generators	Renewable, no greenhouse gases	Reliability - sun (lower energy transfer), Wind and noise pollution, loss of habitat
Fossil fuels	Burns containing hydrocarbons control of total movement, driving generators	Renewable, no greenhouse gases	Reliability - high rates (lower energy transfer), Wind pollution
Nuclear	Heat, oil or gas burning in power stations, heat water into steam which turns turbines/generators	Reliable, high demand, Transfers higher quantities of energy than renewable	Still run out, Release high amounts of carbon dioxide, greenhouse gases and particulates into atmosphere, Nuclear waste

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