

Forms of Energy

Thermal Energy

Heat, the energy given off due to the interaction of different forms matter, which causes a change in speed
(*i.e. temperature*)

Examples of Thermal Energy

Combustion (*burning*) Reaction
Geothermal Sources (*geysers, lava*)
Biological Functions (*body heat*)



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Forms of Energy

Radiant + Light Energy

Energy flow through the movement of light with the environment based on the electromagnetic spectrum
(*the types of light that exist based on their wavelength*)

Examples

Heat transmitted from the sun as infrared radiation
Visible Light in Lasers



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Forms of Energy

Chemical Energy

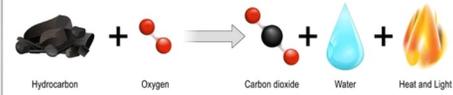
Energy absorbed (*endothermic*) or released (*exothermic*) through the breaking and forming of bonds

Examples

Chemical Reactions

Ionization (*forming ions*)

Breaking and formation of bonds



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Forms of Energy

Nuclear Energy

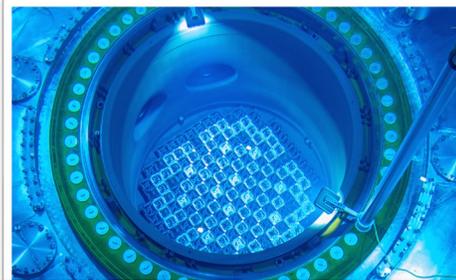
Energy given off due to the breakdown of atoms themselves in unstable isotopes or atoms such as Uranium, Plutonium, or Bismuth

Examples

Nuclear Reactors in Power Plants

Nuclear Weapons

Medical Imaging using nuclear isotopes to view internal structures



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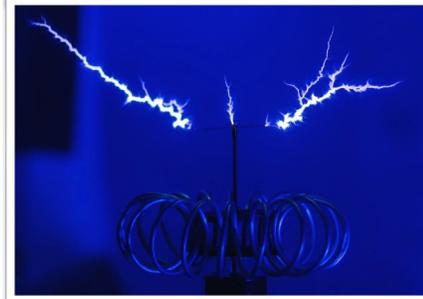
Forms of Energy

Electrical Energy

Energy flow due to the production movement of electrons (- *charges*)

Examples

Electronic Appliances
Lighting, Cooling, and Heating of homes, and offices
Large Scale material production



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Forms of Energy

Mechanical Energy

Energy flow due to the movement and interaction (*collisions*) of particles directly with each other

Examples

General Movement on matter
Automotive and Industrial Motors
Breaking, Tearing, or Reforming of matter within industry
Construction



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