

Forms of Energy

Cite an example of each form of energy:

1. Kinetic energy: The energy of objects in motion
2. Chemical potential energy: Energy stored in a molecule based on the composition and arrangement of its atoms
3. Internal energy: Energy in a system resulting from the random motion and arrangement of atoms that leads to a gain or loss of heat
4. Gravitational potential energy: The stored energy of an object at a higher elevation relative to the ground (the lowest surface of Earth)
5. Mechanical wave: A propagating disturbance of matter in which energy transfers through a medium to another location
6. Electrical energy: Energy from an electric charge that travels through a wire
7. Radiant energy: Energy in the form of light or thermal radiation that emerges from very hot objects
8. Nuclear energy: The energy of bound nuclear particles inside atoms
9. Elastic energy: Energy stored when matter is bent, stretched, or squeezed
10. Mass energy: Energy in the form of mass ($E = mc^2$)