Energy Theme:
Types of Energy:

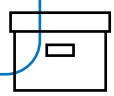
Suitable for All Students

Green-Schools
An Taisce

Energy:
is the ability to make things move, work, or change

Kinetic Energy:
is the energy of motion; anything that moves, from a tiny atom to a fast car, has kinetic energy.

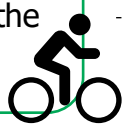
Potential Energy:
is like stored-up energy that's ready to be used



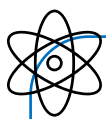
Energy linked with movement

Energy that is stored for later use

Mechanical Energy:
is the energy of movement and position, like moving the pedals on a bike to go forward.

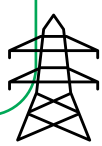


Chemical Energy:
is the power stored in the tiny bonds that hold atoms together in things like food, batteries, and fuel

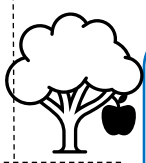


Nuclear Energy:
is super powerful energy locked inside tiny atoms. We get it by splitting big atoms (fission) or joining small ones (fusion) in special plants, which makes heat that creates electricity

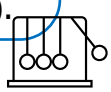
Electrical Energy:
is the power from tiny particles, invisible to the human eye called electrons moving through wires, making things light up, heat up, or run, such as TVs, lights, and phones



Thermal Energy:
is the energy heat energy, making things warm or hot, and it moves from hot to cold places, like when you touch a warm mug.



Gravitational Energy:
is the stored energy an object has because of its height or position above the ground, thanks to Earth's pull (gravity).



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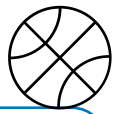

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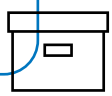

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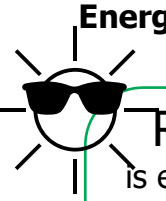
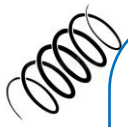
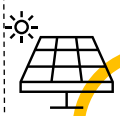


Radiation Energy:
is energy that travels in waves or tiny particles, like the sun's warmth and light. It's energy moving from one place to another, like heat from the sun reaching Earth or radio waves from a tower.



Elastic Energy:
is the stored-up power in things that can stretch or squash, like a rubber band or a spring, waiting to spring back to their original shape. Think of a stretched slingshot or a trampoline – the energy is held inside until it's released, making it move.

Sound Energy:
is the energy we hear, made when things vibrate (shake back and forth) and create waves that travel through the air or even water to our ears.



The main rule of energy is that energy can't be made or destroyed, only changed from one type to another, like a ball's potential energy turning into motion (kinetic energy). Or transferred from object using energy to another. Learning about and understanding these "rule's" is how we use energy to power our lives.

Light Energy:
is energy that helps us see the world. Light travels in waves, at very high speeds and in nature the main source is the Sun. light is made of tiny packets called photons to let plants grow and us see colors.