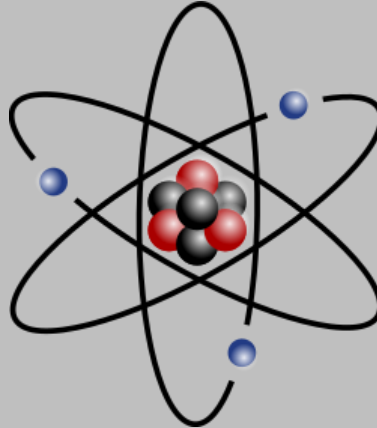




**International House Tashkent**  
**Subject: Physics**  
**Department: ES, Course 1**  
**Lesson 9. Conservation of energy**





# What is Energy?

- **Energy lights our cities, powers our vehicles, and runs machinery in factories. It warms and cools our homes, cooks our food, plays our music, and gives us pictures on televisions.**
- **Energy is defined as the ability or the capacity to do work.**

- Energy use has changed a great deal since people relied on the sun, their own bodies and the use of animals, like horses, as energy sources.





- Long ago, people learned how to use water power to turn wheels to grind grain and saw wood. They used wind power to water farms and power sail boats.



TIAME

- People learned to use the chemical energy stored in wood to cook and heat their homes.





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# TYPES OF ENERGY

## ▪ RENEWABLE ENERGY:

Renewable energy is creating power from existing sources without creating waste

Some examples are:

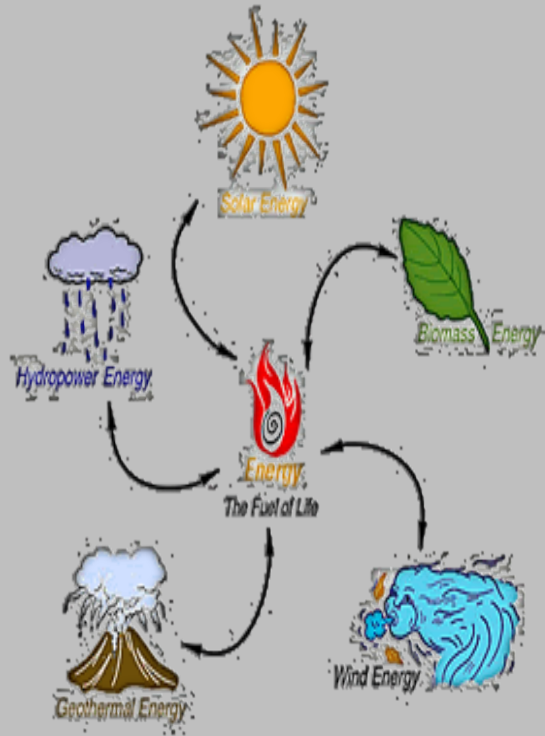
- Solar energy, Wind energy, Geothermal energy, Hydro energy, Tidal power

## NON-RENEWABLE ENERGY:

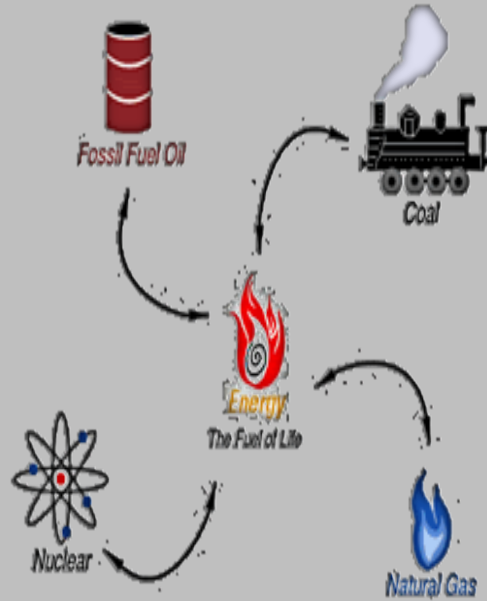
Non-renewable energy must be taken from the ground and creates some form of waste

e.g. energy from burning of fossil fuels, coal, gas

## Renewable Energy



## Non-Renewable Energy



## The Energy Pyramid

