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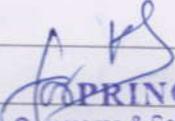
Sub :- Environmental Science

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# Energy resources

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## Energy Resource:

A natural resource that can be converted by humans into other forms of energy in order to do useful work.

- Natural resource: any natural substance, organism, or energy form living things use. The sun is our most important energy resource.

## Renewable Resources:

A natural resources that can be used & replaced over a relatively short time.

## Renewable Resources (cont'd)

### Biomass:

- ① organic matter that contains stored energy or energy produced by heat within the Earth's crust.

Ex. plants, wood, & waste.

- ② Nonindustrialized countries rely heavily on biomass for energy.

- ③ Gasohol - plant material that is changed into liquid fuel.

Ex. Plants containing sugar or starch can be made into alcohol. The alcohol is burned as a fuel or mixed with gasoline to form the gasohol.

Geothermal energy:

- ① Heat energy from the Earth
- ② Ground water that seeps into hot spots near the surface of the Earth can form systems (substantial vents in which steam & water escape)
- ③ An example is found in Yellowstone National Park
- ④ The steam is used in power plants to generate electricity

Hydroelectric energy:

- ① Electricity produced by falling water
- ② Generated through the water cycle
- ③ In dams

Solar energy:

- ① Energy from the sun
- ② A common way (indirectly or directly)
- ③ Sunlight can be changed into electricity by the use of solar cells.
- ④ In solar calculator, solar panels (large panels made up of many solar cells wired together)
- ⑤ Solar collectors - dark-colored boxes with glass or plastic tops used to directly heat
- ⑥ Solar mirrors = mirrors that use sunlight to produce electricity for large-scale solar power

Wind energy:

- ① The energy in wind