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Class Xth                      Subject geography

Chapter: Minerals and Energy Resources

Non-Conventional Sources of Energy

The renewable energy sources like solar energy, wind, tide, biomass and energy from waste material are called Non-Conventional Energy Sources. Let's discuss them one by one.

Nuclear or Atomic Energy

Nuclear Energy is obtained by altering the structure of atoms. Uranium and Thorium are used for generating atomic or nuclear power.

Solar Energy

Solar energy is produced by the Sun's light. Photovoltaic technology converts sunlight directly into electricity.

Wind Power

Wind Energy or Power is the use of wind to generate electricity. Wind turbines are used for this purpose. The largest wind farm cluster is located in Tamil Nadu from Nagarcoil to Madurai.

Biogas

Biogas is a type of biofuel that is naturally produced from the decomposition of organic waste. Biogas is the most efficient use of cattle dung. It improves the quality of manure.

Tidal Energy

Tidal energy is the form of hydropower that converts the energy obtained from tides into useful forms of power, mainly electricity. In India, the Gulf of Khambhat, the Gulf of Kachchh in Gujarat on the western coast and Gangetic delta in Sunderban regions of West Bengal provide ideal conditions for utilising tidal energy.

Geo-Thermal Energy

When heat and electricity are produced by using the heat from the interior of the earth, it is known as Geo-Thermal Energy. In India, geothermal energy is harnessed from Parvati valley near Manikarn in Himachal Pradesh and from Puga Valley, Ladakh.

Conservation of Energy Resources:

Every sector of the national economy – agriculture, industry, transport, commercial and domestic – needs inputs of energy. There is an urgent need to develop a sustainable path for energy development. Here are some ways that each one of us can contribute to save energy resources:

Using public transport systems instead of individual vehicles

Switching off electricity when not in use

Using power-saving devices.

Using non-conventional sources of energy

Read the above passage thoroughly and try to understand and give the answer of the following questions:

1. Where is the largest Wind farm located in India?
2. Name the Regions where Ideal Conditions for utilising tidal energy.
3. What is the Geo-Thermal Energy?
4. Why do we need to be Conserve Energy Resources?

Subject Teacher      Mukesh kumar singh