

Science

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(Chapter 14)(Sources of Energy)
Class - 10

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Question 1:

What are the disadvantages of fossil fuels?

Answer 1:

There are following disadvantages of fossil fuels like coal and petroleum:

- Burning of coal or petroleum causes air pollution.
- Acidic oxides like oxides of carbon, nitrogen and sulphur are released on burning fossil fuels. These oxides lead to acid rains, which affect our water and soil resources.
- Carbon dioxide gas also causes greenhouse effect in atmosphere.
- Fossil fuels are non-renewable sources of energy.

Question 2:

Why are we looking at alternate sources of energy?

Answer 2:

Fossil fuels, which have been traditionally used by human beings as an energy sources, are non-renewable sources of energy. These sources of energy are limited and cannot replenish on their own. They are being consumed at a large rate. If this rate of consumption continues, then the fossil fuels would be exhausted from the Earth. Therefore, we should look for alternate sources of energy.

Question 3:

How has the traditional use of wind and water energy been modified for our convenience?

Answer 3:

To use energy of flowing water large dams are built in hilly regions to store huge amount of water at a height. The stored water from high level in dam is carried through pipes to the turbine at the bottom of the dam and runs hydropower plant. Similarly, the wind energy is used to generate electricity. For the same purpose, the rotatory motion of windmill is used to turn the turbine of the electric generator.