

National Institute of Open Schooling
Secondary Course : Science And Technology
Lesson 12 : Sources of Energy
Worksheet-12

1. Energy is important in everyone's life, whether you notice it or not. Without sufficient energy people face difficulties doing their day to day work. Observe your surroundings and list different sources of energy, their importance and limitations.
2. It can be observed easily that some of the energy sources can be replenished in a short period of time while others take time and even some can't be replenished. Categorize and list sources of energy in different categories on the basis of the statement.
3. Explain source/sources of energy which leads to the least environmental pollution in the process of its harnessing and utilization.
4. Ocean – A Big Source of Energy! Is this a conventional or non-conventional source of energy? Write different ways of harnessing energy from the ocean. Why is there a need to harness non-conventional sources of energy?
5. Observe your surroundings and you will find there are source/sources of energy which causes environmental pollution. List them and suggest steps to minimize environmental pollution caused by those source/sources.
6. Sun is the ultimate source of energy. Justify this statement. How can solar energy be harnessed? Explain limitations in using solar energy and suggest how these limitations may overcome.
7. How will hydrogen as source of energy help in reducing the emission of greenhouse gases and other pollutants? Also explain challenges to use hydrogen as a source of energy.
8. "Law of Conservation of Energy" states that energy can neither be created nor destroyed; it can only be transformed from one form of energy to another. Observe your surroundings and give some examples of transformation of energy taking place in our day to day life.
9. Write an essay on Energy Crisis. Also suggest measures to mitigate the problem of energy crisis in our country.
10. The key for resolving the country's energy crisis lays with the citizens. Among the things we can do is the conservation of our non-renewable sources of energy. Write down the steps that you will take for saving energy at home or workplace.