



Physics Worksheet Class X

Sources of Energy

1. What is the nuclear fission process?
2. Name any two gases, which are major constituents of biogas.
3. What is a solar cell panel?
4. Give the names of any two devices that utilize solar energy.
5. Outline the energy conversion that takes place in a hydro power plant.
6. Why can CNG be considered as an environment friendly fuel?
7. What is anaerobic degradation?
8. Define biomass. Give two examples.
9. What are the limitations of using wind energy?
10. What is acid rain? What are its harmful effects?
11. What characteristics should an ideal fuel possess?
12. Give the advantages and disadvantages of solar cell panels.
13. What is the condition under which ocean thermal energy can be trapped and used?
14. What is the cause of geothermal energy?
15. What is a good source of energy?
16. What is a good fuel?
17. If you could use any source of energy for heating your food, which one would you use and why?
18. What are the disadvantages of fossil fuels?
19. Why are we looking at alternate sources of energy?
20. Name two gases, other than carbon-dioxide that are given out during burning of fossil fuels and contribute towards acid rain formation?

21. How has the traditional use of wind and water energy been modified for convenience?
22. Why are many thermal power plants set up near coal or oil fields?
23. On what basis would you classify energy sources as
- (a) Renewable and non-renewable?
 - (b) Exhaustible and inexhaustible?
24. Why is solar cooker box covered with a plane glass plate?
25. Why is the energy of water flowing in a river considered to be an indirect form of solar energy?
26. Write one advantage of nuclear fission reaction.
- a. State one limitation of solar energy available from solar cells.
 - b. What is the minimum wind velocity required to obtain useful energy from a wind mill?
 - c. Define the term 'nuclear fission'.