



Selina Solutions For Class 9 Physics  
Chapter 6 – Heat and Energy

plants?

**Solution:**

Currently, only about 3% of the total electrical power generated in India is obtained from nuclear power plants.

The two places in India from where electricity is generated from nuclear power plants are:

- Tarapur in Maharashtra
- Kaiga in Karnataka

**18. State two advantages and two disadvantages of using nuclear energy for producing electricity.**

**Solution:**

Two advantages of using nuclear energy to produce electricity are as follows:

- Enormous amount of energy can be produced with a very small amount of nuclear fuel such as uranium-235
- Energy is released for a long period of time once the nuclear fuel is loaded into the nuclear power plant.

Two limitations of using nuclear energy to produce electricity are as follows:

- Release of harmful radiations in the process which is highly energetic and penetrating. The radiations cause ionization which can be harmful to the body of the workers deployed in nuclear power plants. Hence a high standard protection is required for them
- High level of environmental pollution is caused by the wastes obtained from the nuclear power plants.

**19. State the energy transformation in the following:**

- (i) Electricity is obtained from solar energy
- (ii) Electricity is obtained from wind energy
- (iii) Electricity is obtained from hydro electricity
- (iv) Electricity is obtained from nuclear electricity

**Solution:**

- (i) Light energy transformed into electrical energy
- (ii) Mechanical energy transformed into electrical energy
- (iii) Mechanical energy transformed into electrical energy
- (iv) Nuclear energy transformed into electrical energy

**20. State four ways for the judicious use of energy.**

**Solution:**

The four ways with which energy can be used judiciously are:

- Fossil fuels should be used only for limited purposes when no other alternative source of energy is available
- Energy wastage should be avoided
- The practice of chopping down trees must be banned. More trees must be planted
- Efforts should be made to utilize energy in groups/community

**21. What do you mean by degradation of energy? Explain it by taking two examples of your daily life.**

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# Chapter 6 Physics Answers

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particularly if it involves lifting objects, such as shoveling dirt or carrying shingles up to a roof, are “work” in the physics sense of the word. Or, pushing a lawn mower would be work corresponding to the physics

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