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CLASS- 3 SUBJECT- EVS

Based On NCERT

Date - 30/12/2020

Chapter - 11

The Sun

SOLAR COOKER AND SOLAR CELLS

- ☀ A **solar cooker** is a device that uses the direct sunlight to heat and cook food items.
- ☀ Traditional solar cookers look like a briefcase. Each cooker has a mirror that is inclined to the rest of the case where food is kept. When sunlight falls on the mirror, it reflects to the food kept in the box and the food turns the coolest.

- ☀ Solar cookers are inexpensive. Moreover, they do not pollute environment.
- ☀ A **solar cell** is a device that traps the sun's energy and converts it into electricity. This electricity is used for running a number of electrical appliances.
- ☀ Solar cells are used in vehicles like cars and buses. They are also used in space vehicles.
- ☀ Solar panels also trap the sun's energy and convert it into light energy and electricity.



Solar car



Solar panels

SOURCES OF ENERGY

There are various sources of energy.

All these sources can be divided into two groups : renewable sources and non-renewable sources. Let us learn about them in brief.

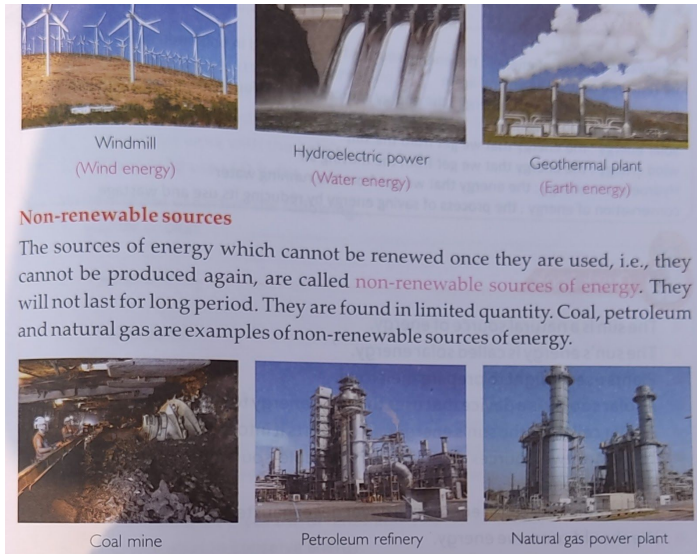
Renewable sources

The sources of energy which can be renewed or used again and again in nature are known as **renewable sources of energy**. They will never get exhausted. They are found in unlimited quantity. Sunlight, wind, water, tide, animal waste and wood obtained from plants are examples of renewable sources of energy. The sun's energy is called solar energy. It can be used for heating and cooking. Wind energy can be used for producing electricity with the help of windmills. Water energy is used to produce electricity in dams. Electricity generated from water is called **hydroelectricity**.

Geothermal energy comes from the earth's interior. It can be used to keep warm big buildings and to heat fish farms in cold areas.

Fact Kit

- ☀ The temperature of the sun's surface is about 6,000 C. Each centimetre of the sun's surface burns with the brightness of 250,000 candles!
- ☀ Tamil Nadu is the biggest producer of wind energy in India. Maharashtra ranks second.



Non-renewable sources

The sources of energy which cannot be renewed once they are used, i.e., they cannot be produced again, are called **non-renewable sources of energy**. They will not last for long period. They are found in limited quantity. Coal, petroleum and natural gas are examples of non-renewable sources of energy.

1. Differentiate between renewable and non - renewable source of energy with examples.

Answer = Renewable - The source of energy which can be renewed or used again and again in nature are know as renewable sources of energy . Examples - Windmill , hydroelectric power and geothermal plant .

Non - renewable sources - The source of energy which cannot be renewed once they are used , I.e ., They cannot be produced again , are called non renewable source of energy. Examples - coal mine , petroleum refinery and natural gas power plant .

2. Why should we make use of renewable sources of energy?

Answer = Environmental and economic benefits of using renewable energy include: Generating energy that produces no greenhouse gas emissions from fossil fuels and reduces some types of air pollution. Diversifying energy supply and reducing dependence on imported fuels.

Jyoti