



G D GOENKA PUBLIC SCHOOL

Subject: Ev.Sc./ 5TH

Aspect: Supporting Content

Wednesday 14th October 2021

Lesson no 20. Fuels We Use

Learning Objective: Understanding the concept of fuels and eco friendly fuels.

Skills: Development of environmental sensitivity.

Fuels

Fuels are substances that give us energy in form of heat or light. Each day, people cook, clean, do laundry and drive using various types of fuels.

Fuel that we use can be divided into two categories.

- Eco friendly fuel
- Fossil Fuel

Eco friendly fuels do not cause harm to environment and do not cause pollution. They are usually **renewable sources of energy**. These fuels are not used commonly.

Fossil fuels are **non-renewable sources of energy**. Although these are commonly used, they cause damage to the environment.

➤ ***Eco friendly Fuels***

Eco friendly Fuels or Alternative fuels are often described as **“green”** or **renewable energy**. They are naturally replenished and are a source of virtually endless energy.

The reduce emission of harmful gases into the environment and helps in keeping the environment clean.

Let's take a look at few eco friendly fuels.

- **Solar Energy**

Solar power is an alternative source of energy which is capable of producing heat and generating electricity. Among all of the natural sources of energy, sunlight is the most abundant. It can be used to cook food in solar cookers and generate electricity using solar panels.



- **Hydroelectricity**

Hydroelectricity is the form of energy which could be harnessed through movement of water to power machinery or create electricity. It is generated by **dams** as they control the flow of river.

When a dam blocks the flow of a river, a water reservoir is created. The water then flows and it turns the blades of a turbine to generate electricity.



- ***Biodiesel***

Biodiesel is a domestically produced, renewable fuel that can be manufactured from vegetable oils, animal fats, or recycled restaurant grease for use in diesel vehicles or any equipment that operates on diesel fuel. Biodiesel's physical properties are similar to those of petroleum diesel.

Biodiesel reduces net carbon dioxide emissions by 78%. It is nontoxic and biodegradable.

Homework:

Q 1. What is a fuel?

Q 2. Why do we need eco friendly fuels?