



Uses of Solar Energy

What is Solar Energy?

The Sun is full of energy. Solar energy is the light and heat from the Sun that reaches the Earth. It is a renewable source of energy that can be used in many ways.

Everyday Uses of Solar Energy

Cooking food → Using a solar cooker.

Drying clothes → The heat of the Sun evaporates water from wet clothes.

Generating electricity →

- Solar cells convert sunlight into electrical energy.
- Solar panels (made of many solar cells) are placed on rooftops to collect sunlight.
- The electricity generated is used to power homes, water pumps, and bulbs.

Heating water → Using a solar heater.

Preserving grains → Sunlight is used to dry harvested grains, making them last longer.

In the water cycle → Solar energy causes evaporation, helping the water cycle continue.

Solar-Powered Vehicles

Solar energy is now used in vehicles like:

- Cars → Powered by solar panels.
- Trains → Solar-powered trains are being developed.
- Airplanes → Solar-powered planes are being tested.

Importance of Solar Energy for Plants

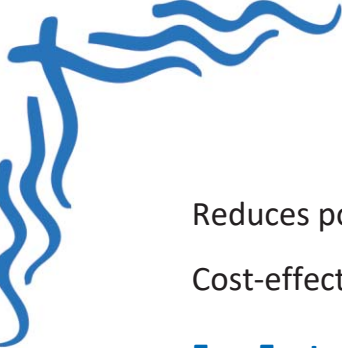
Plants use solar energy for photosynthesis, making their own food.

This process also produces oxygen, which is essential for humans and animals.

Benefits of Solar Energy

Renewable and eco-friendly → It is a natural and never-ending source of energy.

Saves electricity → Reduces the use of non-renewable energy.



Reduces pollution → No harmful gases are produced.

Cost-effective → Solar panels reduce electricity bills.

Fun Facts

The Sun is 150 million km away from Earth, but its energy reaches us in 8 minutes!

Solar energy is also used to power satellites in space. Solar farms are large areas covered with solar panels to generate electricity.

Conclusion

Solar energy is widely used for cooking, drying, heating, and generating electricity. It is also essential for plants and the water cycle. Using solar energy helps us save electricity and protect the environment.