

KONU ALTERNATIVE ENERGY

> Why do we need alternative energy resources?

- * Non-renewable energy sources are about to run out.
- * Fossil fuels have environmental impacts.

> Have you heard of vampire power?

- * Vampire Power are appliances that leech energy even when they are shut off. It is also known as standby power. Your gadgets and appliances waste electricity just by being plugged in. So, they are modern vampires since they waste power and increase electricity bills.

> What are the most threatening things for the environment?

- * **Greenhouse Gases:** The gases which increase the Earth's temperature by trapping heat in the atmosphere.
- * **Vampire Power:** The leakage of energy due to the chargers left plugged into the wall.
- * **Carbon Footprint:** The sum of all emissions of CO₂ (carbon dioxide), which are caused by your activities.

> How do you stop vampire energy and carbon footprint?

- * Unplug when you are done with electrical outlets.
- * Be more concerned and sensitive about energy consumptions.

> How can alternative energy sources help the environment?

- * Scientists are looking for alternative energy sources to reduce pollutants and greenhouse gases. Alternative energy sources are the new hopes for reducing the number of toxins caused by energy use. In order to understand to what extent alternative energy use can help preserve the ecological balance of the world, it is important to be aware of the types of alternative energy sources that are out there.

> Here are some alternative energy sources:

- * **Wind power:** Wind power is the use of airflow through wind turbines to power generators for electric power. An electrical generator converts the rotation of turbine blades into electrical current. As the wind is a renewable source of energy, we will never run out of it. But wind power is intermittent, so the consistent wind is needed for continuous power generation. If wind speed decreases, the turbine lingers,

and less electricity is generated. It produces no greenhouse gas emissions since no chemical processes take place. In addition to this, farming and grazing can still take place on land occupied by wind turbines, and this can help in the production of biofuels.

- * **Solar Power:** Solar power is the conversion of energy from sunlight into electricity. It works by trapping the sun's rays into solar cells where this sunlight is then converted into electricity. Solar energy is used commonly for heating, cooking, the production of electricity, and even in the desalination of sea water. It is a renewable resource as long as the Sun exists. Solar power generation releases no pollution because there is no chemical reaction, but solar power stations can be very expensive to build.

- * **Geothermal Energy:** Geothermal energy is the heat energy generated and stored underneath the Earth. Geothermal energy produces no harmful by-products, but if it is done incorrectly, geothermal energy can produce pollutants and improper drilling into the earth can cause hazardous minerals and gases to be released. Geothermal power plants are usually small and have little effect on the natural landscape. However, geothermal sites can run out of steam in time.

- * **Hydropower:** Hydropower is the largest producer of alternative energy in the world. It comes from the potential energy of dammed water driving a water-turbine and generator. Hydroelectric power stations can increase to full capacity instantly because water can be accumulated above the dam and released in demand. There are no outside forces so, electricity can be generated constantly. They produce no waste or pollution since there is no chemical reaction to produce power. But these dams are expensive to build.

Describing Problems

Here are some words that are generally used to describe problems:

Making Complaints

When we complain about something, we generally explain the problem, state our feelings, and ask for action. The first step is to explain the problem. To do it effectively,

Word	Example	Meaning
minor	It's only a minor problem.	not important
growing	There is a growing awareness of the importance of recycling.	increasing in size, amount, or degree
urgent	Dumping waste in our neighbourhood is an urgent issue.	Requiring immediate action.
arise	Various problems have arisen .	start to exist, occur
address sth	We have to address the issue of funding.	give attention to or deal with a matter or problem
overcome sth	The company has to overcome financial difficulties.	defeat or succeed in controlling or dealing with something

we must use polite, respectful language. Here are a few phrases you can use to explain your problem politely.

- * Sorry to bother you but ...
- * There is a problem that requires an urgent solution.
- * I'm sorry to tell you that ...
- * I'm sorry to have to say this, but ...
- * I just noticed ...

Offering Solutions

There are many ways to offer solutions in

English. Here are some of them:

The solution to this problem is ...

To solve this problem ...

I think we should first ...

SORULAR:

1. Read the text and find the irrelevant sentence.

- (I) Solar power is the conversion of energy from sunlight into electricity. (II) Hydropower is the largest producer of alternative energy in the world. (III) It comes from the potential energy of dammed water driving a water turbine and generator. (IV) The stations capture the kinetic energy of moving water and give mechanical energy to turbines. (V) The moving turbines then convert mechanical energy into electrical energy through generators.

A) I B) II C) III D) IV
Cevap: A