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**ALTERNATIVE ENERGY**

Scientists are looking for alternative energy sources because they try to **reduce** pollutants and greenhouse gases.Alternative energy sources are the new hopes for reducing the amount of toxins that are caused by energy use. In orderto understand to what extent alternative energy use can help **preserve** ecological balance of the world and conserveour non-renewable energy sources such as fossil fuel, it is important to be aware of the types of alternative energysources that are out there.

Wind power is the use of air flow through wind **turbines** to powergenerators for electric power. An electrical generator convertsthe rotation of turbine blades into electrical current, thus; wind towers are usually built together in windy fields.

As wind is a renewable source of energy, we will never run out of it. But wind power is **intermittent**, so 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, on the land occupied with turbines, farming and grazing can still take place on land occupied by wind turbines and this can help in the production of biofuels.

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.Additionally, solar power uses sunlight that hits solar thermal panels to convert sunlight to heat water or air.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.However, night time and cloudy days seriously limit the amount of energy produced.Solar power generation releases no pollution because there is no chemical reaction, but solar power stations can be very expensive to build.

Geothermal energy is the heat energy generated and storedunderneath the Earth. Hot rocks under the ground heat water and this produces steam. Once the holes are formed in the region, the steam shoots up and that steam drives turbines and powers electric generators. Electrical energy is produced this way.

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 release. 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 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.The stations capture the kinetic energy of moving waterand give mechanical energy to turbines. The moving turbines then convert mechanical energy into electrical energy through generators.Hydroelectric power stations can increase to fullcapacity instantly because water can be **accumulated** above the dam and released in demand. In addition to this, water used for hydropower can be reused.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.

**A. Read the text and guess the meanings of the words in bold. Then, match them to their**

**definitions below.(3\*8=24)**

a. reduce

b. preserve

c.turbine

d. intermittent

e. convert into

f. produce

g. hazardous

h. accumulate

1. to make something less or smaller in size or quantity

2. a machine or an engine that receives its power from a wheel turning by the pressure

3. stopping and starting often over a period of time

4. to keep a particular quality, feature

5. to gradually increase in number or quantity over a period of time

6. involving risk or danger

7. to change from one form to another

8. to grow or make something

**Wind**

**READ THE TEXT and WRITE( T) TRUE,(F) FALSE,(NS) NOT STATED.(4\*8=32)**

**1.**Wind power is intermittent….……

**2.** Geothermal power helps in the production of biofuels…………

**3.** Night time and cloudy days seriously limit

the amount of energy that wind power produces………

**4.** Hydroelectric Power can cause hazardousminerals and gases to release…….

**5**. Geothermal power has much effect on the natural landcape……..

**6.**Because of no chemicals,solar power releases no pollution……

**7**.Wind power captures the kinetic energy of moving water and give mechanical energy to turbines….

**8.**Geothermal energy sites are epensive to build……..

**B.Read the responses below and fill in the blanks with correct expressions from the box.(2\*7=14)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **please allow me** | **we can offer** | | **sorry** | I’ll fetch |
| **pay you back** | **in a minute** | **don’t worry** | |  |

a. Oh, sir! I’m terribly sorry. (1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ you a new shirt right away.

b. I’m sorry to hear that you’re not happy with our cable TV service. (2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ you

some different channels instead.

c. We are so sorry for that. (3) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ we will give you extra time.

d. I’m so sorry for that. I’ll get a hot one for you (4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

e. Oh, madam. We are so sad for that. I’ll (5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ right now.

f. We are (6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, sir! Let me give you a room by the lake for compensation.

g. Oh, I’m so sorry about that.(7)…………… to bring you another meal .

**C.Read the expressions below and put them into the correct order to create a meaningful**

**complaint dialogue between a customer and a customer service(2\*9=18)**

……. Of course, I do.

…….. I guess so. I bought this computer here about three days ago, but I haven’t been

able to connect to the Internet since then.

Moreover, there's an annoying hissing sound

in the background while it is working.

………Do you have Internet connection at home?

……… Yes, here it is.

……… Thank you so much! I’ll appreciate that.

……… Yes and there was no problem. All devices are

connected to the Internet at home.

1…….Good afternoon, can I help you?

……..OK! Sir, I can guess what the problem is.

Another customer had exactly the same

problem and we had to change the product with

a new one in the end. Do you have the receipt

with you?

……….Have you tried connecting to the Internet with

any other devices?

…….That’s great. Then, you can get your new computer in ten minutes.

**ANSWER THE QUESTIONS(12)**

*Nowadays, everyone is discussing about the effects of electronic media on our society. As it has become an ordinary part of daily life, it has had such an unrecoverable and profound effect on family relationships that there are no longer family rituals to help build family ties. Regarding these reasons, the scientist strongly advise not to overuse electronic media because it lessens the interaction and happiness among family members.*

1.It is pointed out in the passage that social media ----.

A) has a good effect on mankind

B) is not inevitable for families

C) is building family ties

D) has profoundly changed everything in the world

E) is doing irrepairable harms

2. Which of the following could be the best title for the passage?

A) Family Relationships

B) Having Fun with Electronic Devices

C) Chatting Online with Families

D) Alternative Solutions

E) The Harms of Social Media on Families

3. According to the passage, in order to help build family ties and have happier families, we should ----.

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A) give up overusing electronic media

B) become an ordinary part of family life

C) lessen the interaction among family members

D) help needy people in families

E) advice scientists not to overuse electronic media

ELT TEACHERS