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Directed Reading for Section 3 = Renewable **Energy Sources**

Directions: Complete the following sentences using the terms listed below.

-	batteries	geothermal	windmill	solar energy
	tidal energy	radiant	hydroelectric	renewable resource
•	solar cell	pollution	hydrogen gas	potential energy
1. A Renewable is replaced nearly as quickly as it is used.				
2.	. A photovoltaic cell c	onverts 501AC	Eneray	_ into electricity.
	. A photovoltaic cell is			
4.	. Electricity generated by solar cells must be stored in			
	Batteries	for use	when the Sun is no	t shining.
5.	. If water is retained by a high dam, its gravitational			
	BHENHIAL EN	egy is increa	ased.	
6.	6. Dams built to generate energy from water are called			
	hydroelectr:	dams.		
7.	Only a few places on Earth have large enough tidal differences for			
42	Tidal Ever	44 to be us	eful.	
8.	A wind spins its progenerates electricity when wind spins its pro-			
	pener, which is conn	ected to an electric	generator.	٠,
9.	At a Geotherm	pov	wer plant, water pur	mped into a well in
	the ground makes co turbines that spin ele	intact with hot rock	k, and rises as steam	and is used to rotate
10.	An alternative fuel th		vater vapor when it	burns and creates no
	pollution is Hydro			ourns and creates no
11	The Radiana	¥		. 1 1 1
. I. I. e	homes and provide h	ot water.	ergy from the Sun ca	an be used to heat
12.	Hydroelectric power	plants are an efficie	ent way to produce	electricity with
•	almost no Polle		· · · · · ·	· ·

Key Terms Energy Sources

Directions: Match the term in Column I with the definition in Column II by writing the correct letter in the space provided.

Column I

- 1. fossil fuels
 2. petroleum
 3. nonrenewable resource
- 4. nuclear reactor
- £ 5. nuclear waste
- \mathcal{B} 6. renewable resource
- _____ 7. photovoltaic cell
- 8. hydroelectricity
- _______9. geothermal energy
- 11. radiant energy
- 12. solar cell

Column II

- a. uses energy from controlled nuclear reactions to generate electricity
- b. resources that are replaced nearly as quickly as they are used
- c. thermal energy that is contained in hot magma
- **d.** thick, greenish-brown, highly flammable liquid that contains hydrocarbons
- e. any radioactive by-product that results when radioactive materials are used
- f. electricity produced from the energy of moving water
- g. renewable organic matter that can be used to generate thermal energy
- h. resources that cannot be replaced by natural processes as quickly as they are used
- i. device that is used to convert solar energy into electricity
- j. formed from the decaying remains of ancient plants and animals
- k. another name for a photovoltaic cell
- I. energy from the Sun that can be used to heat homes and provide hot water