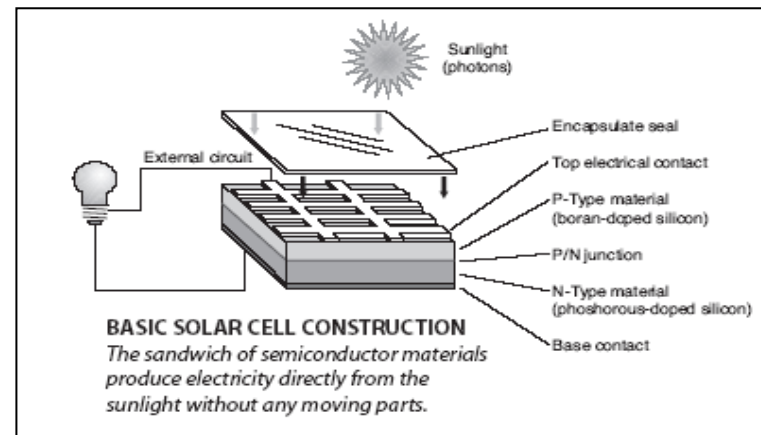
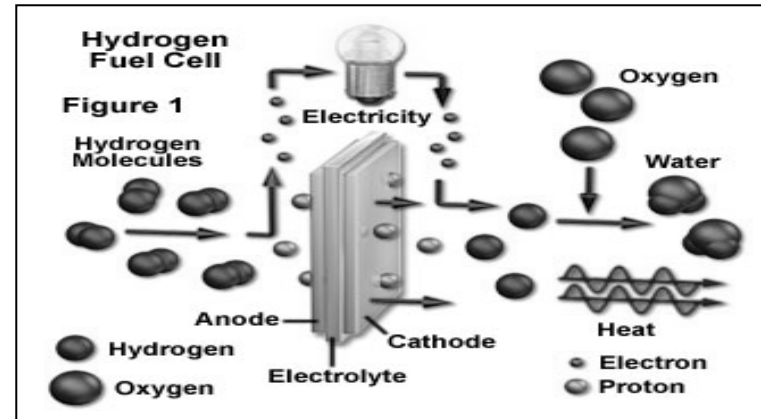
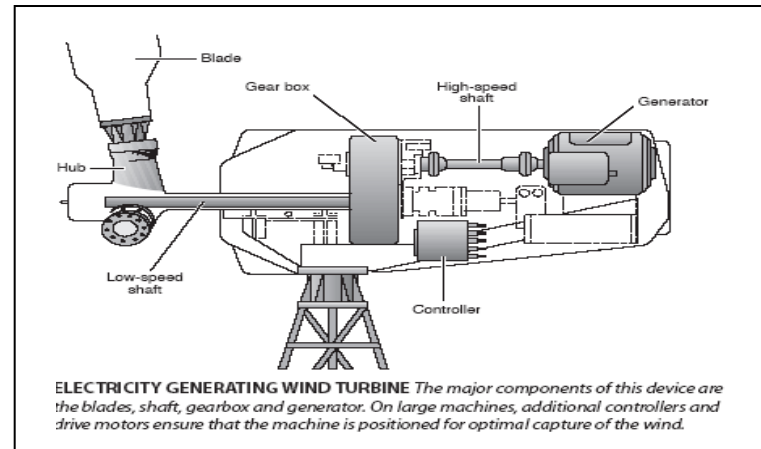


Renewable Energy

General Terms:

1. energy efficiency-
2. renewable energy sources-
3. “off the grid”-
4. r-value-
5. passive solar-
6. convection-
7. active solar-
8. photovoltaic cell-
9. array-
10. photon-
11. joule-
12. fuel cell-
13. wind farms-
14. geothermal energy-

Illustrations:



6 Types of Renewable Energy		
Type	Advantages	Disadvantages
Solar		
Flowing water		
Wind		
Biomass		
Geothermal		
Hydrogen		

Multiple Choice Questions

- All of the following are methods of biomass energy production except
 - Burning manure to cook food
 - Collecting wood to burn for heat
 - Collecting methane from animal waste to produce electricity
 - Using moving water to generate electricity
 - Producing ethanol to be used in automobiles
- Biofuels include which of the following
 - Ethanol
 - Biodiesel
 - Vegetable oil
 - I only
 - I and II only
 - I and III only
 - I, II, and III
 - None of the above
- All of the following are negative environmental impacts of hydroelectric power except
 - Damming rivers destroys habitat
 - Damming disrupts the natural flooding of rivers
 - Hydroelectric power contributes directly to acid rain
 - Hydroelectric dams can create thermal pollution downstream
 - Sediment, and nutrients, are trapped behind dams

- Which of the following is a benefit of using biomass to produce energy?
 - Biomass energy production is near Carbon neutral.
 - Using biomass supports local economies
 - Biomass is a perpetual resource
 - Both A and B
 - All of the above

Questions 5-9 refer to the following choices.

- Biomass
- Hydroelectric
- Passive solar
- Geothermal
- Wind

- This type of renewable energy relies on a constant source of moving water.
- Involves the combustion of organic material associated with living organisms.
- This type of energy production is the fastest growing renewable energy sector.
- This type of energy is not directly derived from the sun.
- Involves the direct use of radiant energy from the sun to heat water or air.

Free Response

- Renewable energy resources will become more and more important as countries look for ways to meet their energy demands while fossil fuel resources begin to dwindle.
 - Identify and describe two renewable energy resources.
 - Identify and describe one negative impact and one positive impact for each of the renewable energy resources identified in part A.
 - Imagine that you are the president of a country, and describe two incentives that you would provide to encourage your citizens to use renewable energy resources.