

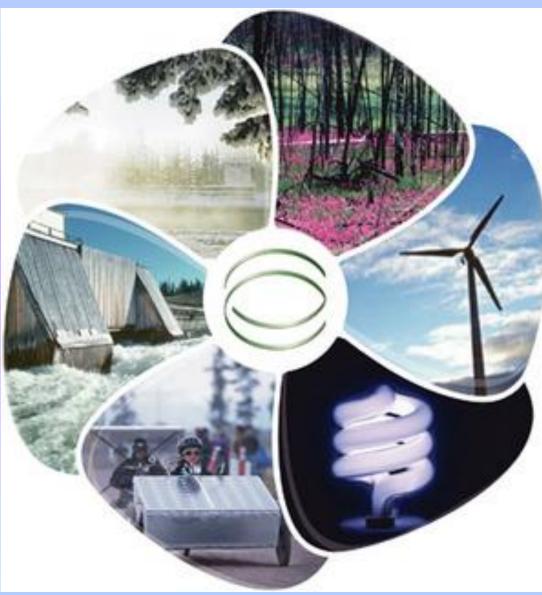
Sorting Words (page 4): Classify the following

I know a lo about this		I've heard of this before		I have no idea what this is	
Greenhouse gases	Fission	Thermal energy		Potential energy	
Geothermal power	Wind energy	Hydroelectric energy		Global warming	
Ozone layer (hole)	Solar energy	Nuclear energy		Ocean power	
Renewable resource	Biomass	Hydrogen fuel cell		Kinetic energy	
Photovoltaic cell	Fusion	Fossil fuels ex. oil, coal, gas, petroleum		Non-renewable resource	

7.14- TSW DISTINGUISH BETWEEN RENEWABLE AND NONRENEWABLE SOURCES OF ENERGY.

 <u>Renewable resource</u>natural resource that is used at a rate slower than the rate at which it regenerates

<u>Non-renewable</u>
 <u>resource</u>- natural
 resource that cannot
 be replaced if used up



Sources of Energy- Pkt 14, Pg 4 7.13- TSW IDENTIFY TYPES AND SOURCES OF ENERGY.

- Solar energy renewable; energy from the sun in the form of heat and light, converted by parabolic dishes and photovoltaic cells
- Wind energy renewable; conversion of wind energy into a useful form of energy, such as using wind turbines to make electricity
- Geothermal power- renewable;
 (from the Greek roots *geo*, meaning earth, and *thermos*, meaning heat) is
 power extracted from heat stored in the earth

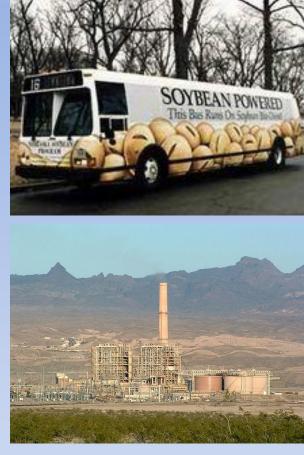






Sources of Energy

- **Biomass/biofuel** renewable; biological material derived from living, or recently living plant matter, such as wood, solid waste, landfill gas, biogas, and ethanol fuels; burned to generate electricity
- <u>"Clean" coal (fossil fuel) technology</u>- non-renewable; technology that may reduce emissions of carbon dioxide (CO₂) (and greenhouse gases) that arise from the burning of coal for electrical power; typically in reference to carbon capture and storage, which pumps and stores CO₂ emissions underground
- Nuclear power- non-renewable; produced from controlled (i.e., non-explosive) nuclear reactions; released by the splitting (fission) or merging together (fusion) of the nuclei of atom(s)





Sources of Energy

- Hydroelectricity renewable; (Hoover Dam!) the production of electrical power through the use of the gravitational force of falling or flowing water (hydropower)
- Tidal/wave/ocean power- renewable; a form of hydropower that converts the energy of tides or ocean surface waves into electricity or other useful forms of power
- Hydrogen fuel cell- renewable; an alternative fuel vehicle that uses hydrogen as its onboard fuel for motive power; uses hydrogen as its fuel and oxygen (usually from air) as its oxidant

