Energy Source Rating Sheet

GEOTHERMAL *energy*	FACT	ADVANTAGE	DISADVANTAGE	RATING
1. Geo means earth; therme means heat. Geothermal means earth-heat.				
2. The center of the earth is very hot. This heat warms water and rocks near the surface. We can use this heat as energy—thermal energy.				
3. Geothermal energy is renewable energy. Rocks in the center of the earth produce more heat all the time.				
4. Very hot geothermal steam can heat buildings and make electricity. Hot steam reservoirs are found in Western states and in Hawaii.				
5. Geothermal power plants are built on top of steam reservoirs. They are expensive to build, but the fuel is free.				
6. Geothermal steam can contain dangerous chemicals. Power plants clean the steam or put the chemicals back into the earth.				
7. Low temperature geothermal energy is found everywhere in the U.S., just a few feet underground.				
8. Low temperature geothermal energy can be used to heat and cool buildings. The systems are expensive to build, but cheap to run.				
9. Geothermal energy is used where it is found. We don't transport it long distances.				
10. Geothermal energy provides the U.S. with about 0.5 % (one half of one percent) of the energy we use, mostly to heat and cool buildings.				

TOTAL RATING _____

HYDROPOWER *energy*	FACT	ADVANTAGE	DISADVANTAGE	RATING
1. *Hydro* means water. Hydropower is the energy of moving water.				
2. Gravity pulls water from high ground to low ground. There is energy in moving water—mechanical energy.				
3. Water is a renewable energy source. Rain will fall as long as the sun shines and evaporates water from the oceans, rivers, and lakes.				
4. Dams can be built across rivers to harness the energy in water. Turbines at the bottom of the dams make electricity.				
5. Hydropower is the cheapest way to make electricity. The fuel, water, is free to use and you don't need to transport it. Gravity moves it.				
6. Hydropower plants do not pollute the air since no fuel is burned.				
7. Hydropower dams can flood a lot of land when they are built. They can also disturb fish and wildlife habitats.				
8. The lakes made by the dams can be used for fishing, boating and other sports. They can also help prevent floods.				
9. Most of the good places to put hydro dams have been used. The U.S. will not build many more hydro dams.				
10. Hydropower provides the U.S. with about four percent of the energy we use.				

TOTAL RATING _____