

RENEWABLE ENERGY

Name _____ hr _____



GEOTHERMAL

1. Why does steam come out of the Earth in some areas?
2. What do we make that steam do for us?
3. Where are all the geothermal power plants located?
4. Do we have any geothermal power plants in Michigan?
5. Could we have geothermal heating and cooling in Michigan?
6. How does geothermal work in winter time?
7. How does geothermal work in summer time?
8. Is geothermal renewable or non-renewable?
9. If you put a geothermal unit in your home, would you have a heating bill? Air conditioning bill?

HYDROPOWER / HYDROELECTRICITY

10. What causes water to be up in the air?
11. Why does water flow on the Earth?
12. Where is it always headed?
13. When we make a dam, we then make tubes for water to flow through. Why do we want the water flowing through a certain zone of the dam?
14. How do we control how much electricity at a hydroelectric dam?

WIND ENERGY

15. What did we use the old windmills for?
16. What do we use modern wind turbines for?
17. Why would a wind turbine on a highway work?

18. What is the one negative about wind power?
19. Is wind power renewable or non-renewable?
20. If you installed a wind turbine on your house, how would that affect your electric bill?

SOLAR POWER

21. What is it called when you simply let it lots of sunlight in order to warm a room?
22. Some people put pipes up on their roofs so the sun will heat up what?
23. Photovoltaic panels make what?
24. Where does a homeowner install photovoltaic cells?
25. Where would a city install photovoltaic cells?
26. What are 2 disadvantages of solar power?
27. Is solar power renewable or non-renewable?

BIOMASS

28. Put a checkmark next to biomass sources:
 - Branches and leaves left over from cutting down trees
 - Leftover parts of crops like the corn stalk and the leaves of the sugar beet
 - The stuff that goes down the toilet
 - Manure from animals
 - Skins, hooves, horns, etc. leftover from animal slaughter
 - Trash and garbage
29. What do we do to biomass in order to get heat to make electricity?
30. Sometimes we rot the biomass and turn it into alcohol. What would we later do to the alcohol?
31. What do people use corn burners for?
32. What is alcohol really made of?
33. What do we use ethanol alcohol for?
34. If you burn plant materials, why do we say that the CO₂ being given off is not NEW CO₂?
35. Is biomass energy renewable or non-renewable?