NAME

lesson/

lust; volcanoes, gaysers, and hot springs are examples o Earth's internal gother mad: relating Full of Energy

of geothermal activity water power usting the energy of workeing electricity hydrocleenie:

new and renewable sources of energy. A nyming on bacteria produce electrons that equi salegare aut how to convert Amherst have figured the University of leam of researchers of constantly looking for Scientists are Someday, your laptop computer may be power the bettery. macteria feed off a bettery that runs on bacteria. As the They invented a omething useful. ugar solution, they

produce energy. efficient fuel to Revolution when until the Industrial sources of energy become widely used Fossil flucts did not pombas sacionar

James,

Does the history of energy hold promise for the future?

nonrenewable. Renewable energy is produced by water, wind, geothermal start to dwindle, new sources of energy will have to be found Nonrenewable energy, like fossil fuels, have a limited supply, and when they activity, and the sun. These resources can be replenished, or built up again. Energy used as power comes in two forms-renewable and

- The sun was the earliest and most obvious form of energy. It provided pump water, and even power machines that could saw wood from animal power. Animals were used to transport people and goods, conditions, and cook their food. Another early form of energy came discovered fire, they were able to stay in one location, survive harsh light and heat so people could hunt and survive. Once human beings
- Around 5,500 years ago, the ancient Egyptians learned that the wind created can be used to pump water or produce electricity. discovered that windmills could harness wind power. The energy provided energy. Using sails and wind energy permitted people to travel to areas they couldn't access by land. About 2,000 years ago, it was
- In hydropower, energy comes from the force of falling water. The wheat into flour. The first hydroelectric dam was built in Appleton, Wisconsin in 1882. Hydro plants can be built where a natural waterfall Greeks harnessed the power of water by building water wheels to grind occurs, or an artificial dam can create a waterfall heavier the water is, the more mertia it has to produce energy. Ancient
- Geothermal energy is trapped beneath Earth's surface. Scientists drill turbine, which makes electricity. Geothermal energy is limited to into Earth's crust, and the heat escapes as steam. The steam rotates a locations near the sources of beat.
- millions of years, fossil fuels are not easily replaceable. As early as Energy also comes from burning nonrenewable resources like the fossil fuels are burned to light and heat our homes and power our cars. fuels-crude oil, natural gas, and coal. Because they formed over 1100 B.C., the Chinese burned coal to heat their homes. Today, fossil
- Nuclear energy comes from the energy released when the nuclei of uranium isotopes, a nontenewable resource, are split apart. The energy produced from nuclear fission

create steam to power turbines. is used to heat water and



to wider populations of people?

What's Next

many of these sources are currently being used today? What will it take to make more of them available Do some research on some sources of alternative energy. What are their strengths and drawbacks? How 10. Why do you think that renewable sources of energy tend to be "cleaner" sources than fossil fuels?

Chapter 7 Lesson

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How did the Industrial Revolution influence the usage of fossil fuels? Why?	8. What is "bacteria power"?	What is the difference between renewal of each.	How did the discovery of fire as an ene	Write your answers on the lines below.	fossil fuels	wind energy	nuclear fission	hydropower	geothermal energy	th each form of energy to its description
nence the usage of fossil fuels? Why?		What is the difference between renewable and nonrenewable sources of energy? Give one example of each.	6. How did the discovery of fire as an energy source change the way human beings lived?		e. renewable source, harnessed by sail and mills	d. the force of falling water	c. the use of Earth's internal heat	 nonrenewable sources, like coal and crude oil 	 a. produced when uranium nuclei are split apart 	Match each form of energy to its description. Write the letter of your answer on the line.

Chapter 7 Lesson 1

Spectrum Science