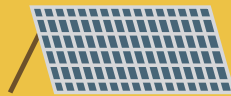
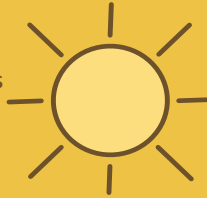


Renewable Energy

capturing the sun's energy and converting it into electricity

- ☀ The largest photovoltaic solar power facility in the world is in Arizona and is made of more than 5,000,000 solar panels.
- ☀ Covering only 4% of the world's deserts with solar panels could supply the entire world with enough electricity.



SOLAR

organic material, such as wood, crops, and waste, that is burned or turned into gas or fuel



🌿 In the US, there are 86 plants that convert garbage to electricity or steam. In 2013, they generated enough electricity to power 1.3 million US homes in a year.

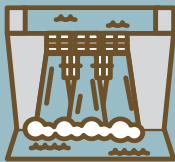
🌿 Almost all gasoline sold in the US contains some ethanol, a fuel made from the sugars found in grains.



BIOMASS

the power of moving water turning turbines connected to generators to produce electricity

- 💧 On September 30, 1882, the first US hydroelectric power plant opened in Appleton, Wisconsin.
- 💧 Hydropower is responsible for almost half of the renewable energy generated in the US.



HYDROPOWER

In 2014, only

13% of the electricity generated and

10% of the electricity used in the US

was from renewable energy sources.

WIND

moving air that turns turbines connected to generators to produce electricity

➡ From 2000 to 2014, electricity generated from wind in the US increased from 6 billion kilowatt hours (kWh) to 182 billion kWh.

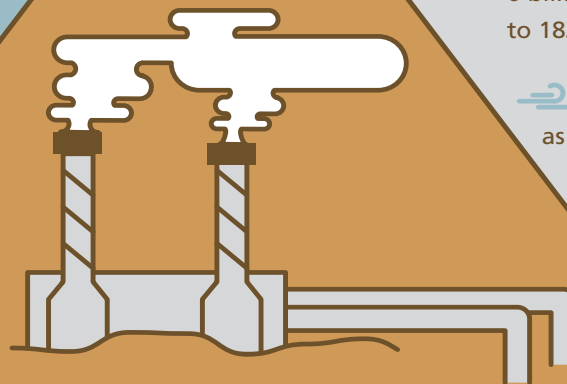
➡ Wind turbines can be as tall as 20-story buildings, and the blades can be longer than 100 feet (30.5 m).

GEOHERMAL

capturing the earth's heat from hot water reservoirs or steam

💧 In 2014, California produced over 75% of the total amount of geothermal energy in the US.

💧 Geothermal energy is most commonly used for food dehydration, gold mining, and pasteurizing milk.



Name _____

Renewable Energy

Study the infographic. Answer the questions.

1. What are the five forms of renewable energy?

2. Which renewable energy uses the power of moving water?

3. Geothermal energy uses the earth's heat from hot water reservoirs or steam.

True

False

4. Describe how biomass energy works.

5. In 2014, less than 15% of all energy used and generated in the US was from renewable energy sources.

True

False

6. Where is the world's largest solar power facility? _____

7. _____ energy captures the sun's energy and converts it into electricity.

8. Which state produced over 75% of the total amount of geothermal energy in the United States in 2014?

A. Utah

B. Florida

C. Texas

D. California

9. Describe how wind energy works.

10. How does this infographic help you better understand renewable energy sources?
