

## Lesson 4 Energy

### A Circle.

1. Wind is a **wind turbine** of natural energy.  
source
2. Some wind turbines can make enough **electricity** for one thousand homes.  
dam
3. A **solar panel** turns energy from the sun into electricity.  
source
4. A **energy** uses moving water to make electricity.  
dam

### B Read and write.

#### Skills Tip

The introduction and conclusion of a reading tell you the topic.

### Wave and Tidal Energy

Scientists are excited about two sources of energy that come from our oceans. Like wind and solar energy, these energy sources are clean and will never run out.

#### Wave Energy

Scientists have designed wave turbines that use ocean waves to make electricity. There are many kinds of wave turbines.



#### Tidal Energy

The water in the ocean goes up and down each day. This is called the tide. Scientists have designed tidal dams that use the tides to make electricity. A tidal dam in Europe makes enough electricity for two hundred forty thousand homes.



Scientists know that the ocean waves and the tide can give us clean energy for a long time. They are working hard to get even more energy from these sources.

1. How are wave and tidal energy like wind and solar energy?

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2. What do scientists know about the ocean waves and the tide?

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3. What are scientists working hard to do?

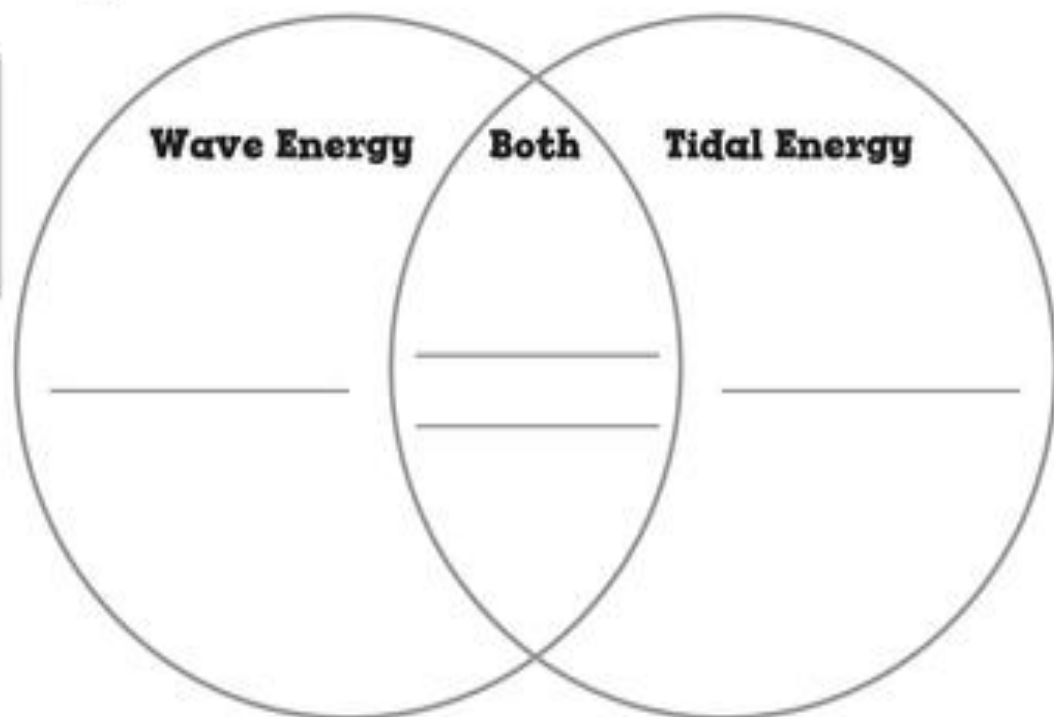
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### C Circle.

- |  |      |       |
|--|------|-------|
| 1. There is one kind of wave turbine.                      | True | False |
| 2. Wave turbines use the tides to make electricity.        | True | False |
| 3. A tidal dam in Europe makes electricity for many homes. | True | False |

### D Fill in the diagram. Then write.

clean  
never runs out  
wave turbines  
tidal dams



1. What have scientists designed to use wave energy?

Scientists have designed \_\_\_\_\_ that make \_\_\_\_\_

2. What have scientists designed to use tidal energy?

### E Think and write.

1. How do you use wind energy?

2. Solar energy comes from the sun. People use solar energy to make electricity. What do plants use solar energy to make?

