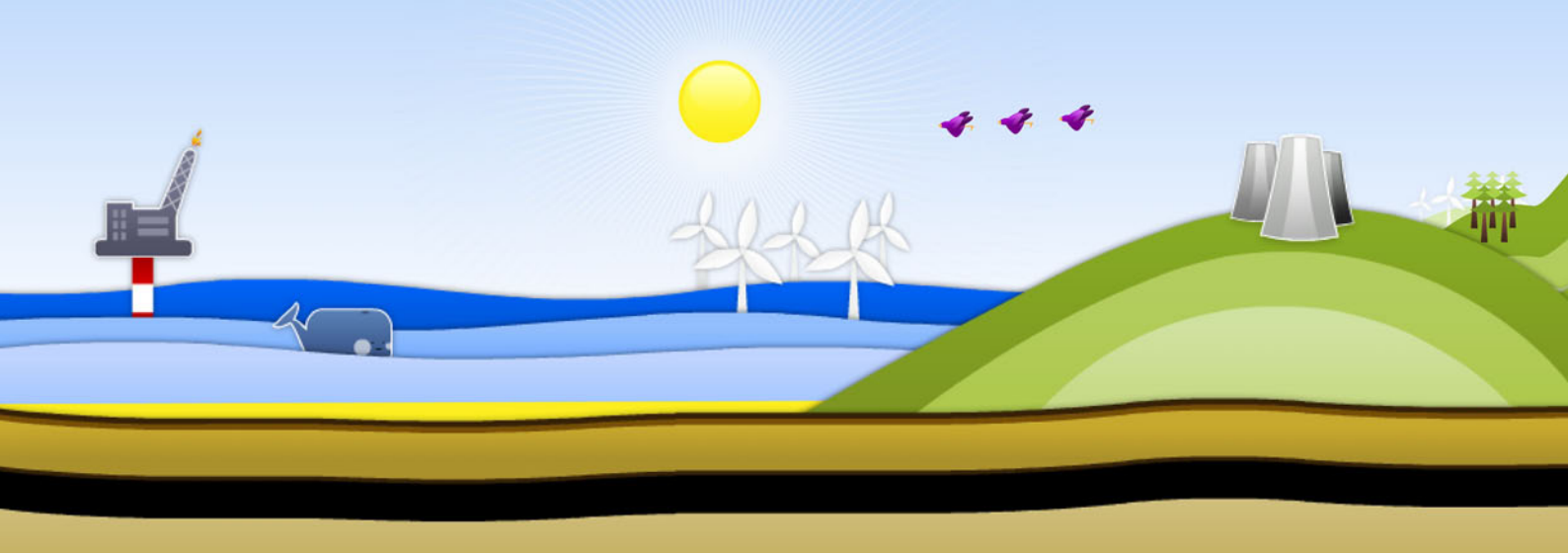


Your energy

Workbook

Your name

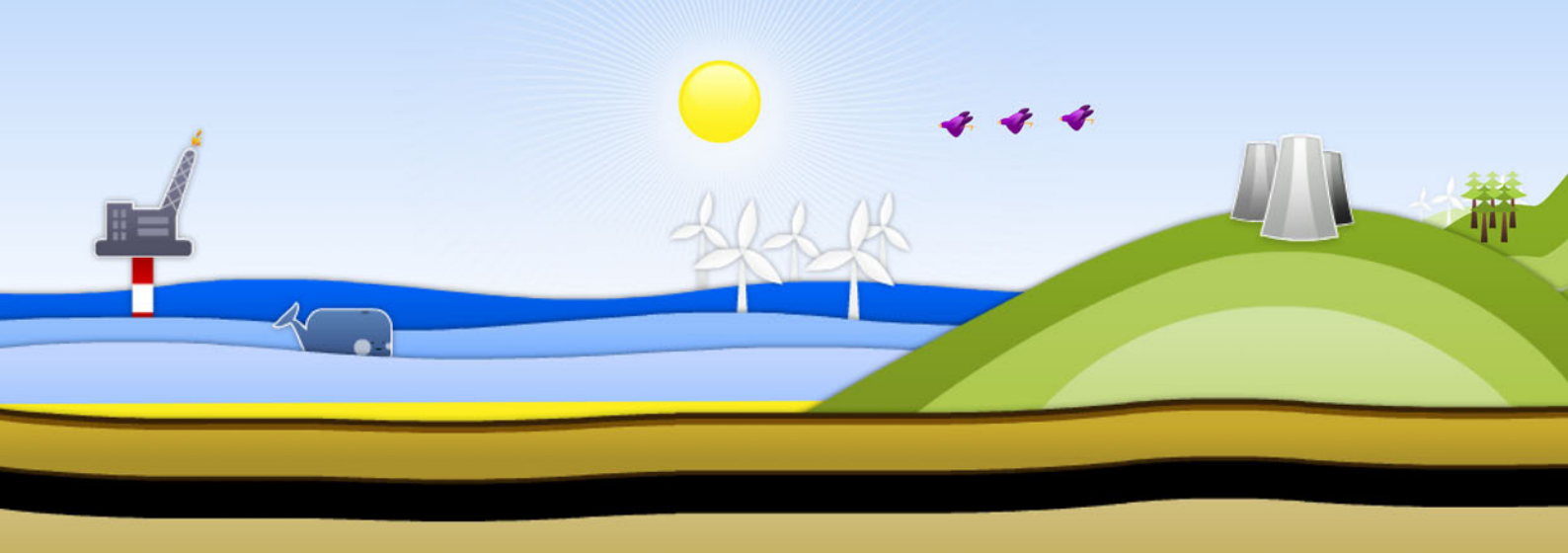




How do we make it?

1 What is renewable energy?

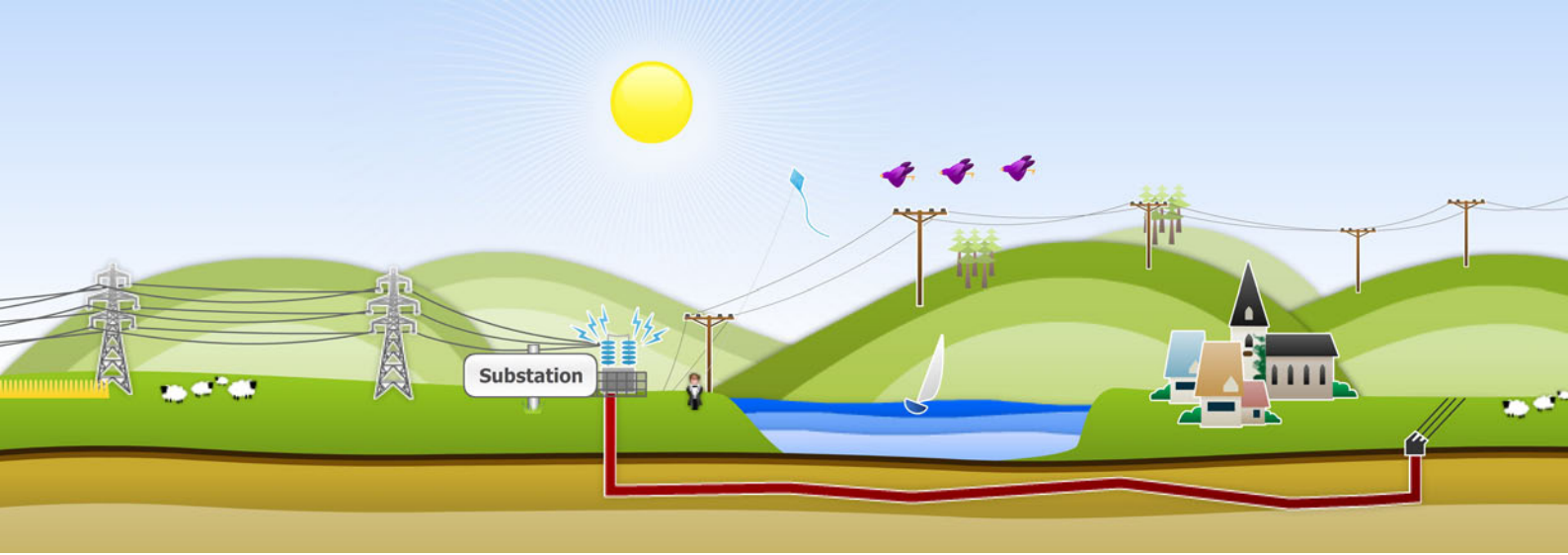
2 What are three renewable energy sources?



How do we make it?

3 How can we generate energy from water?

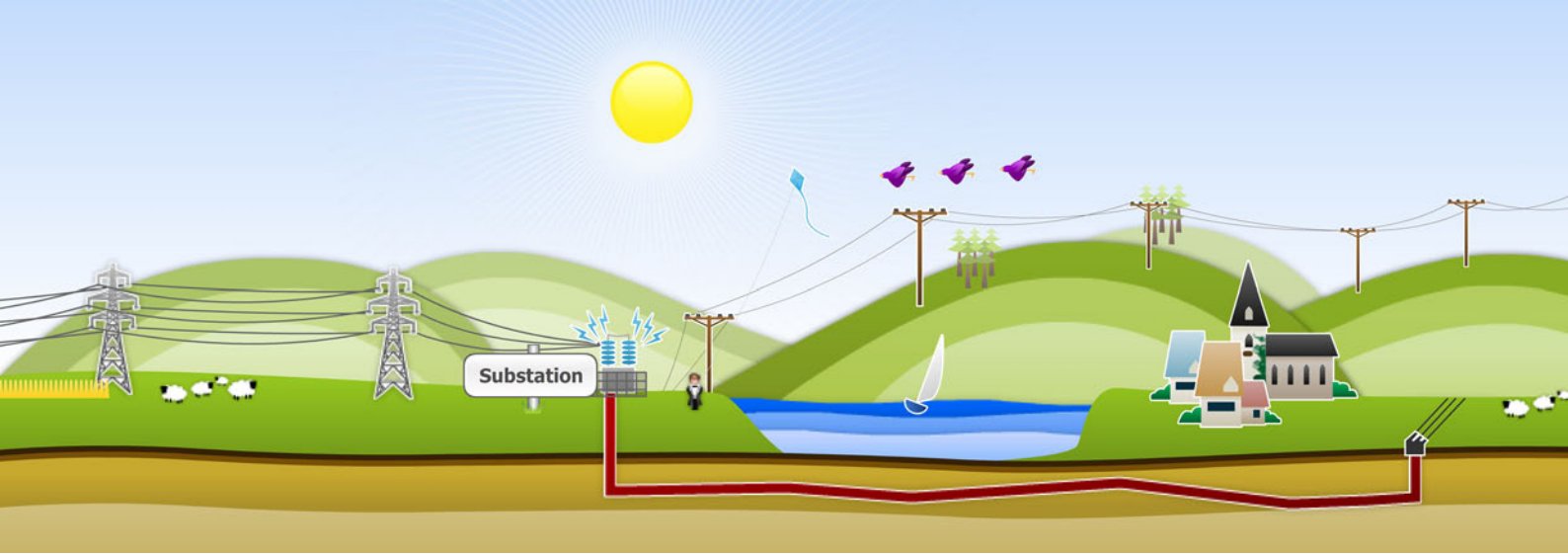
4 Coal is called a fossil fuel. What are fossil fuels made from?



How do we get it to you?

- 5 How do we get electricity to you over long distances?

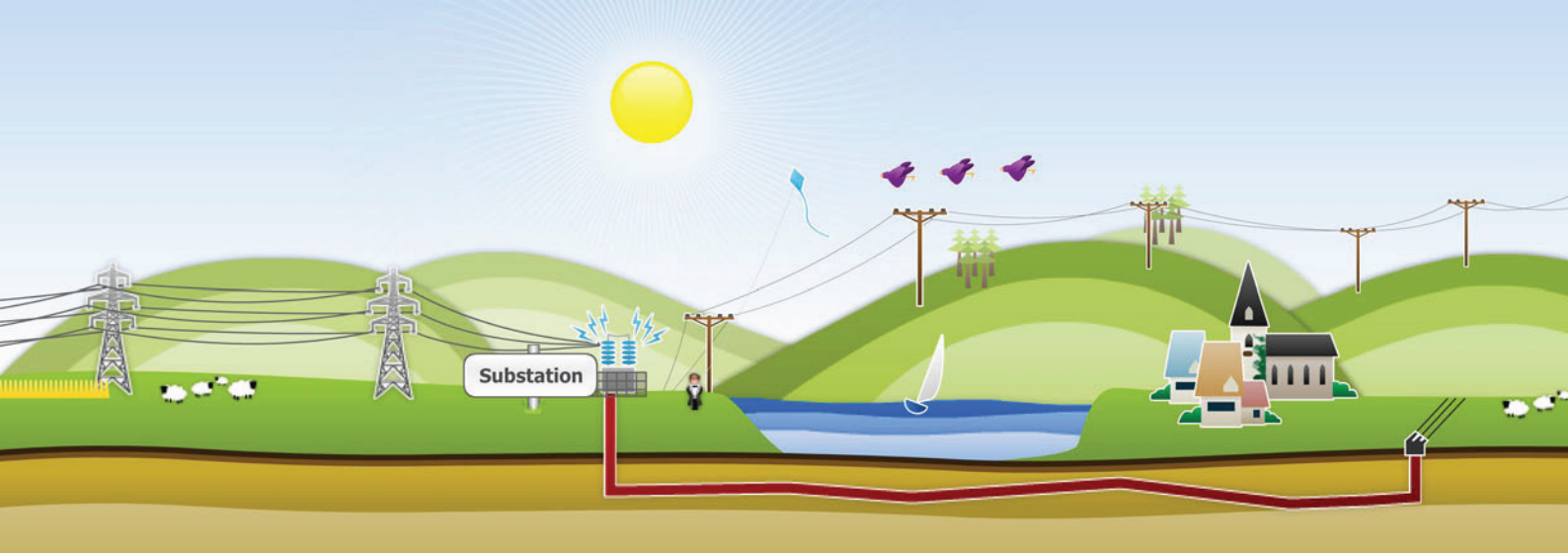
- 6 Where would we use underground cables?



How do we get it to you?

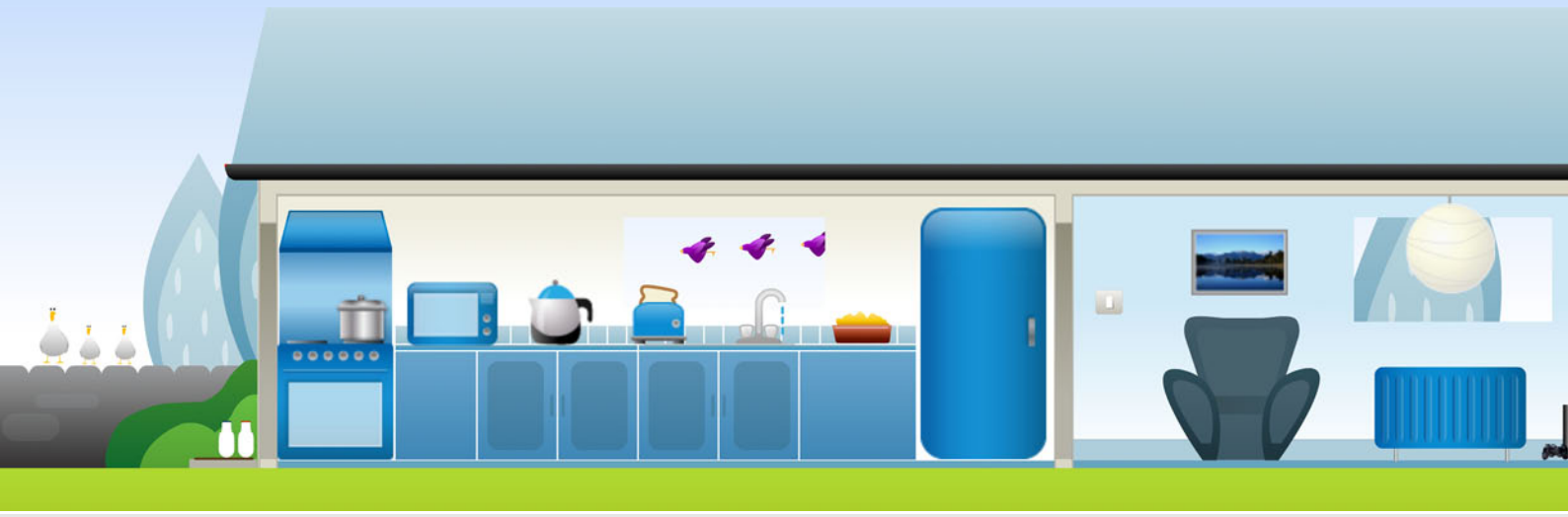
7 What does a substation do?

8 What connects all the power stations and substations together?



How do we get it to you?

- 9 Why should you be careful near electric cables?



Saving energy

10

What should you put in your freezer to save energy and why?

11

Name three electrical things in the house that you should switch off when you are not using them to save energy?



Saving energy

12 What can you stick in the toilet cistern to help save energy?

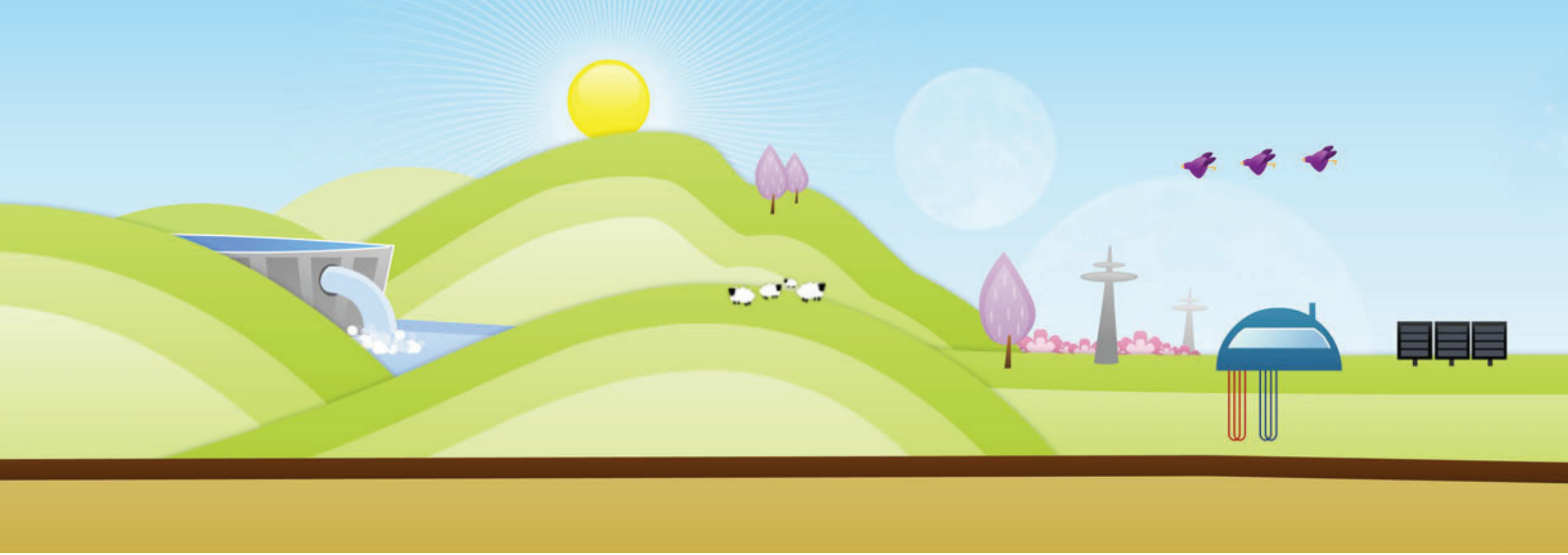
13 How much longer can energy-saving light bulbs last compared to ordinary ones?



Saving energy

14 What are the two ways to save water in the house?

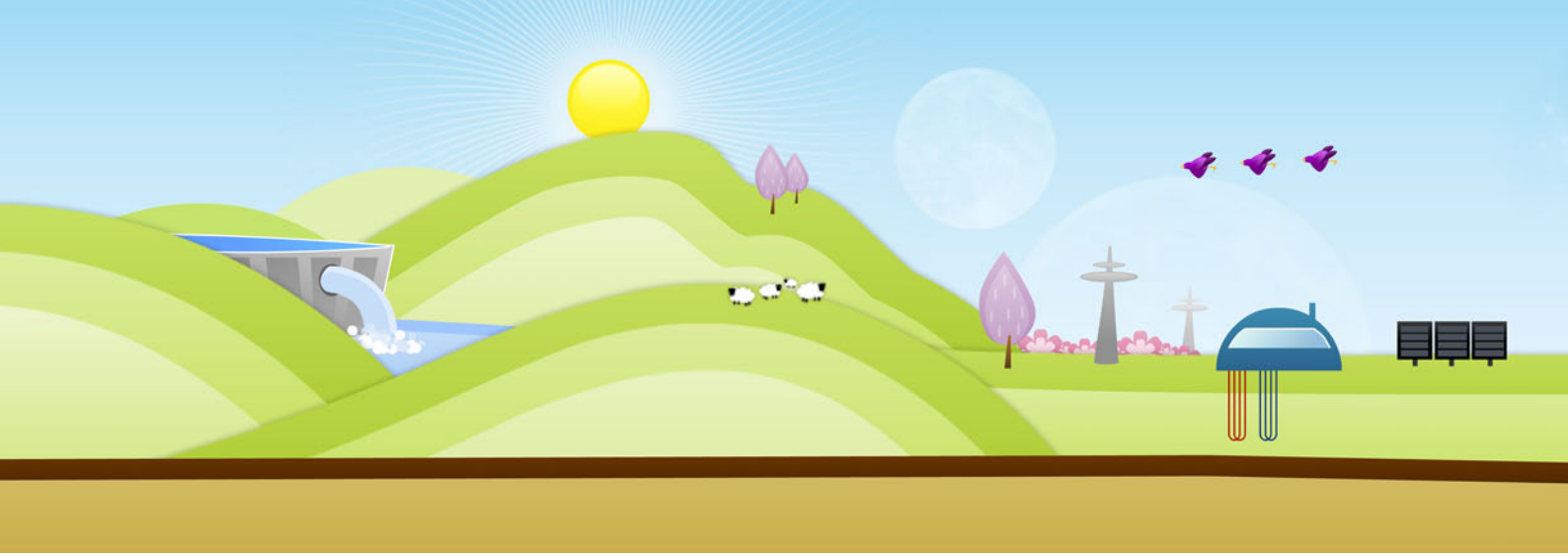
15 Why should you put tin foil behind your radiators?



The future of energy

- 16 How many homes can Coomacheo and Curragh wind farms power?

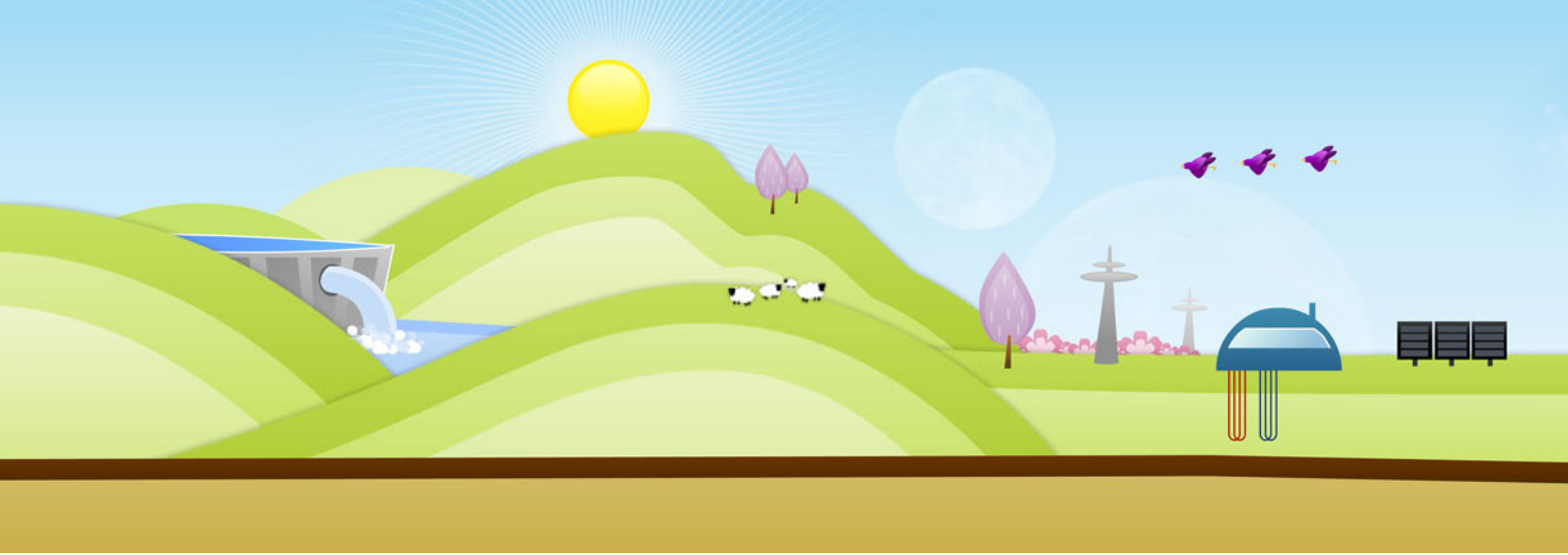
- 17 Where does a heat pump get the heat from?



The future of energy

18 Why would we be using electric cars in the future?

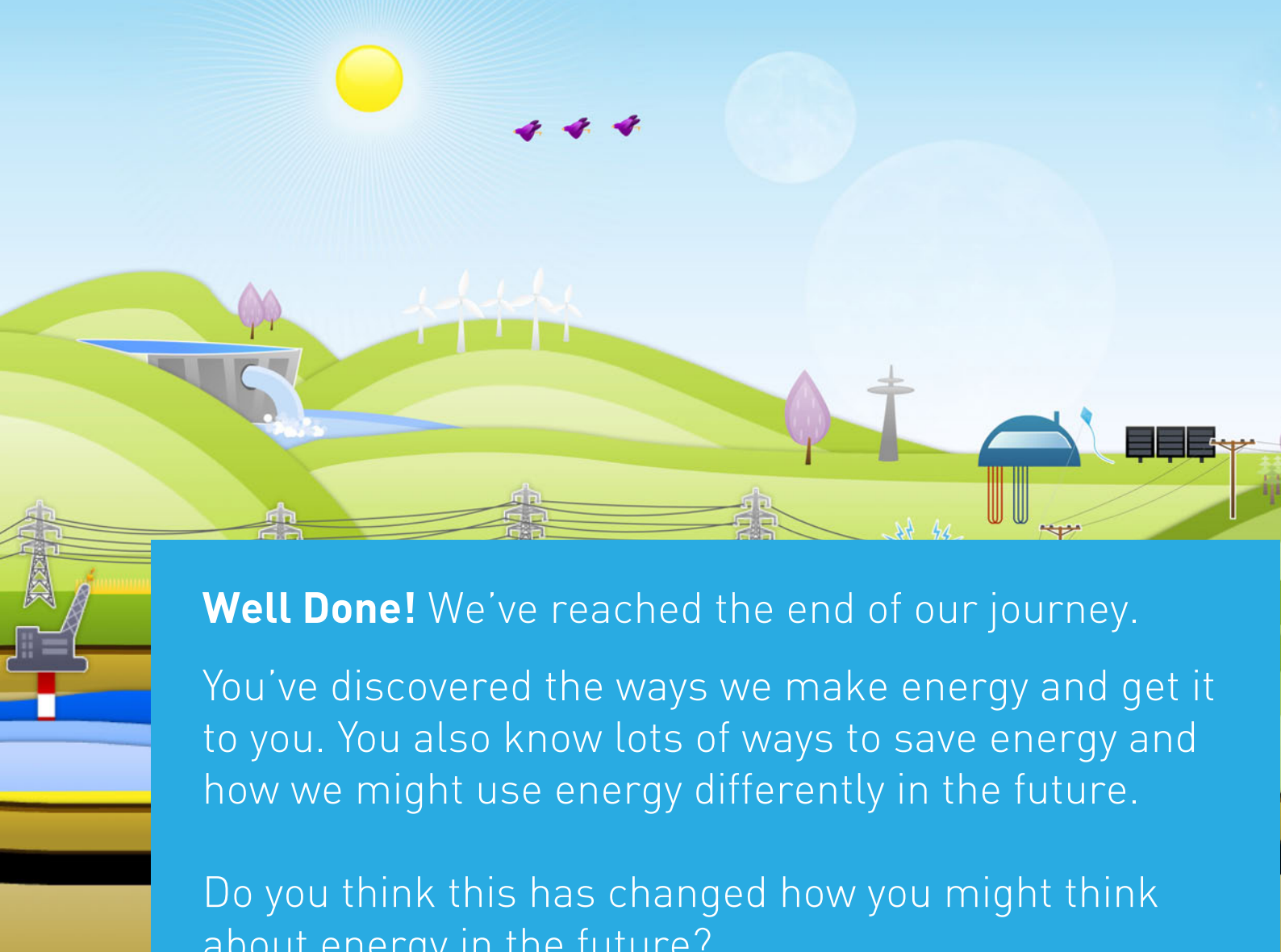
19 How can we get energy from waves?



The future of energy



Why should we use more renewable energy sources in the future?



Well Done! We've reached the end of our journey.

You've discovered the ways we make energy and get it to you. You also know lots of ways to save energy and how we might use energy differently in the future.

Do you think this has changed how you might think about energy in the future?



Shhh! The answers

How do we make it?

1. It is energy that will never run out.
2. The sun, the wind and water.
3. When water falls from a great height onto a turbine, the turbine goes round and generates electricity.
4. The fossils of plants and animals from millions of years ago.

How do we get it to you?

5. Towers.
6. Urban areas or to cross areas of water.
7. Makes sure that just the right amount of energy gets to where it's needed.
8. Eirgrid.
9. Electricity can jump gaps and give you an electric shock.

Saving energy

10. Cardboard boxes stuffed with newspaper because it takes more energy to freeze air than solid stuff.
11. TV, lights and the computer.
12. A brick.
13. 10 times longer.
14. Switch off taps when you don't need them - making sure they don't drip, and have a shower instead of a bath.
15. It reflects heat back into the room, so you could turn down the heat and stay warm.

The future of energy

16. Up to 40,000 homes.
17. Underground.
18. They run on batteries rather than petrol, so they won't give out carbon monoxide fumes and we won't need to rely on oil so much.
19. When waves rush into chambers in the sea, the air in these chambers gets moved at a high speed to turn pistons which make electricity.
20. Because supplies of non-renewable energy sources, like coal, gas and oil are running out.