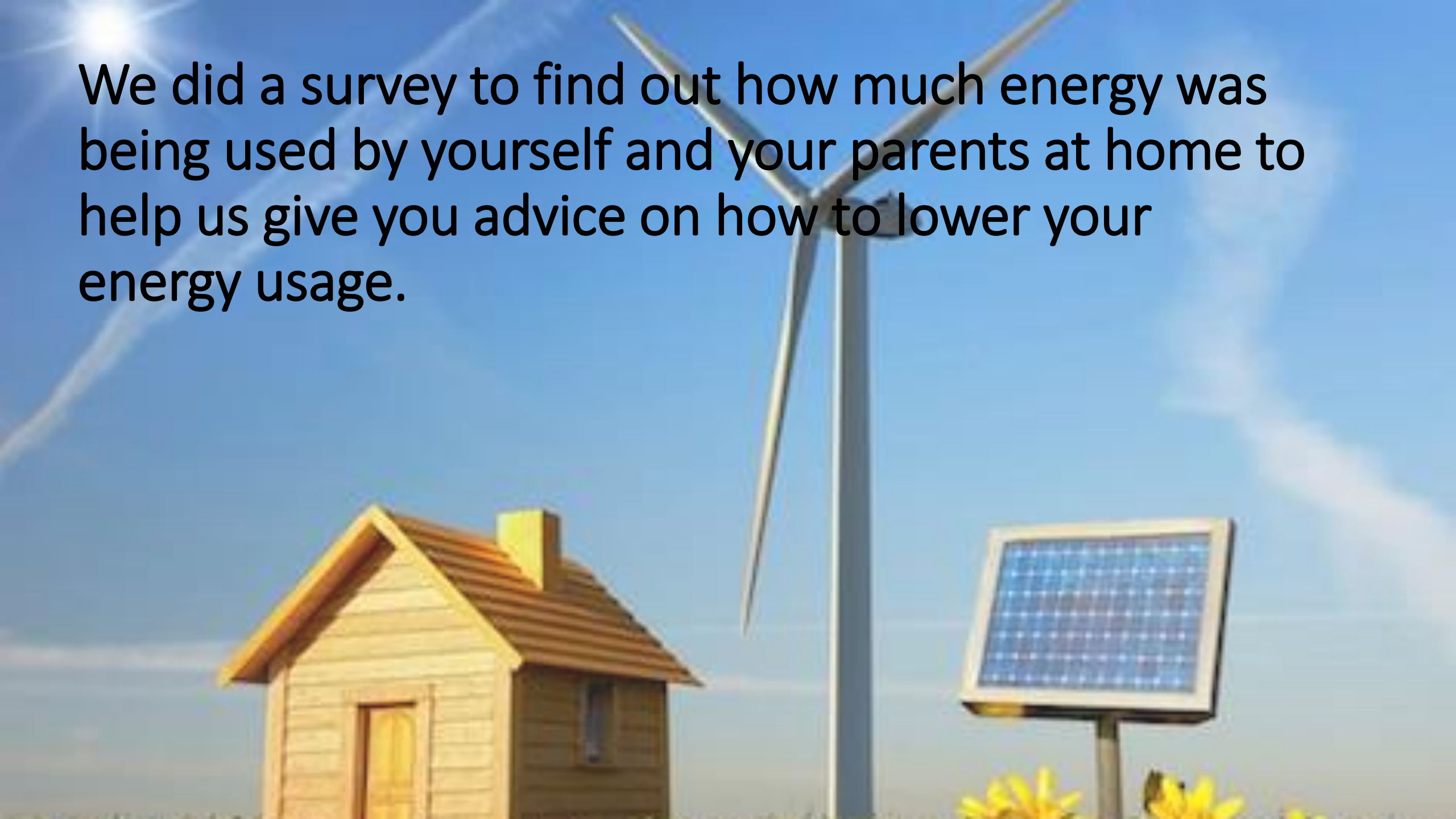


A composite image featuring a wind turbine, a solar panel, and a small wooden house under a bright sun in a blue sky. The wind turbine is the central focus, with its three blades extending across the upper half of the frame. To the left, a small wooden house with a gabled roof and a chimney is visible. To the right, a solar panel is mounted on a post. The sun is in the top left corner, creating a lens flare effect. The overall scene is bright and clear, symbolizing clean energy.

# **SAVING ENERGY**

We did a survey to find out how much energy was being used by yourself and your parents at home to help us give you advice on how to lower your energy usage.





# **WHY SHOULD WE SAVE ENERGY?**

- There are many reasons why we need to save energy
- We would like to do the survey again in a few weeks and see if we can get even better results
- Now let us look at some of those reasons and see what we can do to save energy!





# REASON 1: IT IS EXPENSIVE

- Electricity is hard to produce
- To make electricity a lot of resources are used
- That is why it is quite expensive to produce electricity and then get it to our homes and workplaces
- Every month we pay for the electricity we consume



# **REASON 2: THE MORE WE USE, THE MORE WE HARM OUR PLANET**



- Electricity is produced to meet our needs
- The more we use, the more is produced
- Burning fossil fuels to make electricity releases a lot of dangerous gases
- These gases harm Earth and cause climate change



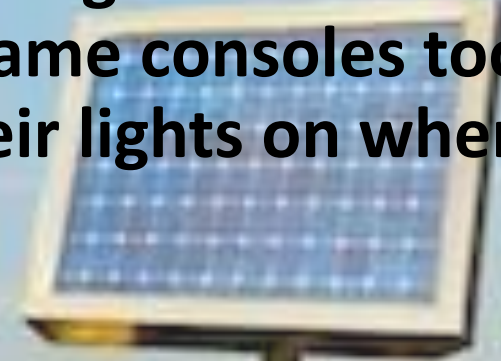
- **Climate change means the Earth gets hotter and hotter**
- **It is caused by many things we humans do**
- **One of these is producing and using different types of energy**
- **If we do not take action, terrible things can happen**



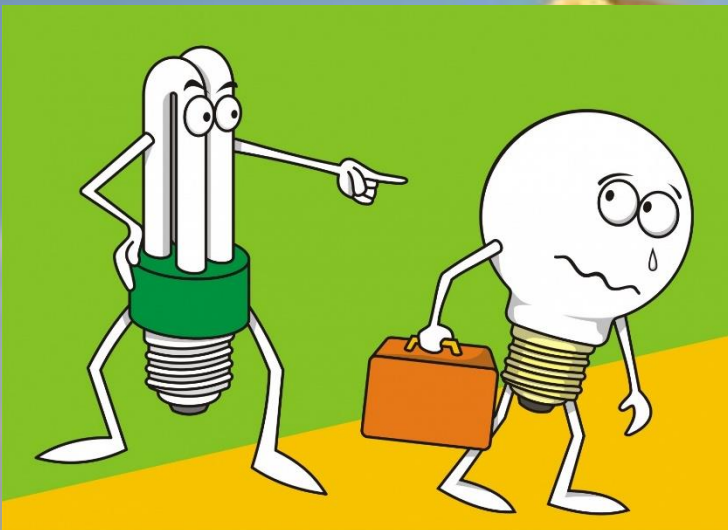


# HOW CAN WE SAVE ENERGY?

- Have shorter showers. 65 out of 71 people had long showers. If we aren't careful, the UK could be hit by water shortages by 2050
- Flip that switch! Whenever you leave a room, don't forget to turn off the light. And that goes for TVs, computers, and game consoles too! 22 out of 71 people leave their lights on when they leave the room.



- **Before you turn on a light in a room, stop and think. Do you really need it? Or is there enough natural daylight already?**
- **Have your parents replace standard light bulbs with compact fluorescent light bulbs. They use less electricity and last up to 10 times longer than standard bulbs.**





- **Looking for a snack? Don't just leave the fridge door open while you search high and low for something to eat. Decide what you want to eat before you even open that fridge door.**



- On sunny summer days, close the drapes and blinds to keep the sun's warm rays out. It's a natural way of keeping the house cool.
- In winter, open drapes and blinds to let the sun's warming rays in.
- At night, close them to keep the heat in.



**We have a challenge for you to create your own renewable energy devices!**

**Challenge 1- create clean water using the sun**

Your small collection container should have slowly filled with clean drinking water that did not have any of your food colouring in it; the water will be purified by only using natural energy!



## Challenge 2- build your own wind turbine

This project will focus on the major parts of a wind turbine and how they work. The amazing thing about wind is that it can be turned into electricity through the use of a wind turbine.

