

Green sources of energy

VOCABULARY

LEVEL
Intermediate

NUMBER
EN_BE_2535V

LANGUAGE
English

lingoda

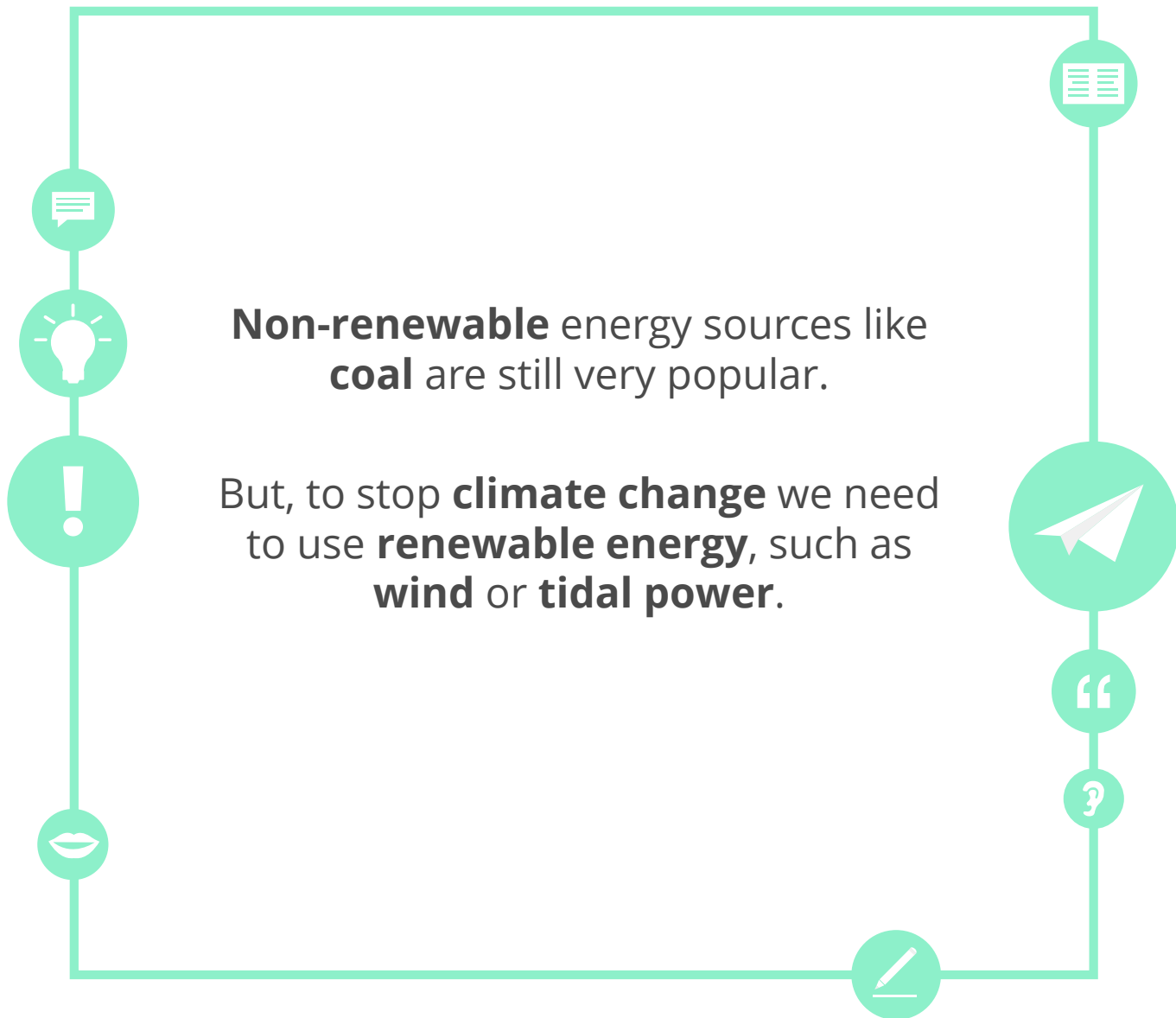




Goals

- Can understand simple vocabulary relating to green sources of energy.
- Can correctly identify simple vocabulary associated with non-renewable energy.







Preview and warm-up

In this lesson, you are going to learn words and phrases relating to **green sources of energy**.



Solar power uses energy from the Sun.

renewable energy



Renewable energy are sources of energy that never run out.



New words

solar power

Solar power comes from the Sun's rays.



wind power

Wind power is generated by wind.



hydro power

Hydro power uses the energy obtained from the movement of water.



geothermal power

Geothermal power comes from the underground heat of the Earth.



tidal power

We gain **tidal power** from the rise and fall of ocean tides.



biomass

Biomass is animal or plant material for energy production.





New words

turbines

Turbines are machines that produce power from wind, gas or water.



solar panels

Solar panels absorb the Sun's rays to generate electricity or heat.





Match pictures to words

1. solar power

2. biomass

3. geothermal power

4. tidal power

5. wind power

6. hydro power

A



C



E



B



D



F





Complete the sentences

Complete the sentences by matching two parts.

1. Solar panels

A) oldest renewable energy source.

2. When water moves, we can

B) by wind turbines.

3. Biomass is probably the

C) collect sunlight.

4. Wind power is generated

D) obtain hydro energy.



Speaking

Which renewable energy sources does your country use? Why are they good?



renewable energy

solar power

geothermal
power

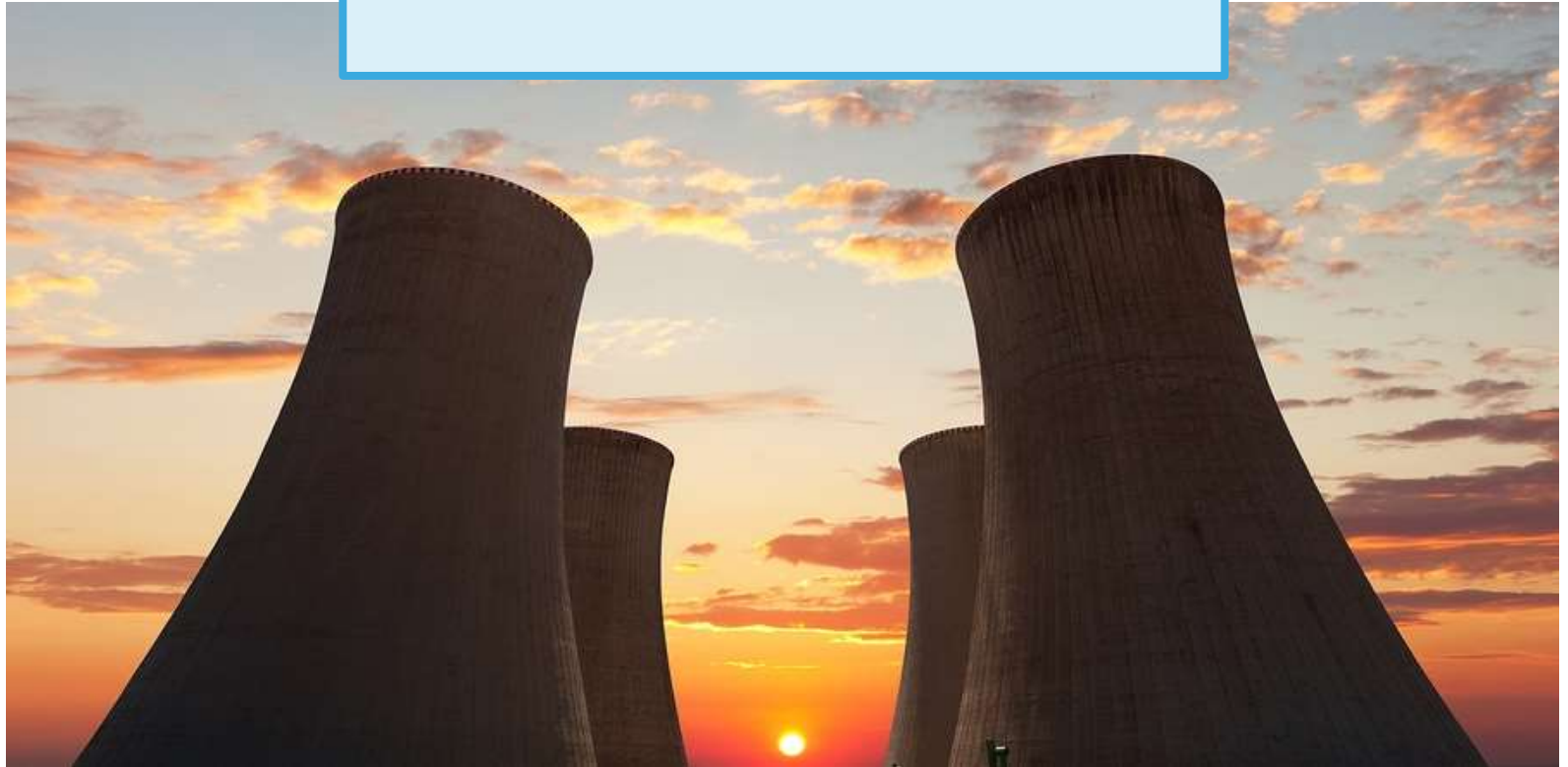
hydro power

biomass

wind power

tidal power

non-renewable energy



These sources do not recharge themselves, we can run out of them.



New words

fossil fuel

Fossil fuels are gas, coal or oil formed from the remains of living organisms.

coal

Coal is a solid black material that provides heat when we burn it.

oil

Oil is a thick dark liquid for making petrol or fuels.

gas

Gas is similar to air, also used for heating or fueling vehicles.

nuclear energy

Nuclear energy is produced by atomic reactions.



Unscramble the words

Look at the following words and unscramble them.





Speaking

Which are the most popular non-renewable energy sources where you live? Is this situation changing?

gas

nuclear energy

oil

coal



Categorise

Look at the following words. Put them in the right group.

solar

nuclear

oil

geothermal

gas

biomass

tidal

coal

renewable energy

non-renewable energy



Writing

Choose three renewable and three non-renewable energy sources and write sentences with the words.

A spiral-bound notebook with lined pages. The pages are white with light blue horizontal lines. There are faint circular icons on the pages, including a play button, a speech bubble, and a document icon.

Write sentences!





Speaking

Share your sentences with your teacher or your classmates.





Brainstorm

What do you know about climate change? Collect words, expressions, facts that you already know. Then look at the next pages and compare.

climate

catastrophe



climate change

global warming

Climate change is the result of **global warming**.



Climate change is happening because the planet's temperature is rising.



Global warming makes ice in the Arctic melt.



New words

**carbon dioxide
(CO₂)**

Animals and humans
breath out **carbon
dioxide**.



greenhouse gas

Greenhouse gases
cause the greenhouse
effect that heats the
planet.



emission

Emission is the
production and release
of radiation and gases.





Sentence examples



Seasons start later or disappear because of **climate change**.

Global warming affects every living being on the planet.



Plants can absorb the **CO₂** that we produce by burning carbon.

We have 8.5 years to bring **greenhouse gas emissions** to zero.





Complete the sentences

Complete the sentences with the following words:
warming, emissions, greenhouse, climate, CO2

1. Rising sea levels is an obvious sign of _____ change.
2. We have to cut _____ gas emissions right now.
3. Cutting down rainforests makes global _____ worse.
4. Boats, bikes or electric cars are zero _____.
5. _____ level is higher than ever in the atmosphere.



Answer the question

**What can
individuals do
to fight climate
change?**

recycling

eco-friendly

trees

meat



Text

Iceland got the title of the most sustainable country in 2019. Icelanders plant trees and recycle most of their waste. 100% of their electricity comes from geothermal and hydro energy. The country uses renewable energy sources in a creative way. Family homes and energy-consuming industries use green energy. They are suitable for generating electricity and used for heating. They can melt snow off pathways, heat swimming pools, power fish farming or greenhouses. They rely on fossil fuels only for transportation.





True or false?

	TRUE	FALSE	DOESN'T SAY
1. Greenland was the most sustainable country in 2019.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. They plant trees and recycle their waste.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Family homes do not use green energy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. The most important renewable energy sources are geothermal and wind.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. They also use solar power.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. They rely on fossil fuels for transport.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Give your opinion

What steps is your country taking to fight climate change? Do you think you live in a green country?





Climate change quiz



Answer the quiz questions. Guess the answers if you are not sure.

The youngest climate activist is...

Who is the youngest climate activist?

How many years do we have to bring greenhouse gas emissions to zero?

What is CO₂ generated by?

Name three renewable energy sources.



Answer key

Exercise 1, p.8

1. D
2. A
3. F
4. C
5. E
6. B

Exercise 2, p.9

1. C
2. D
3. A
4. B

Exercise 3, p.13

1. nuclear
2. non-renewable energy
3. oil
4. coal
5. fossil fuels
6. gas

Exercise 4, p.15

1. Renewable: solar, hydro, tidal, biomass
2. Non-renewable: gas, oil, nuclear, coal



Answer key

Exercise 5, p.22

1. climate
2. greenhouse
3. warming
4. emissions
5. CO₂

Exercise 6, p.25

1. F
2. T
3. F
4. F
5. Doesn't say
6. T

Exercise 7, p.27

1. Greta Thunberg
2. Less than 10.
3. Humans, animals, burning fossil fuels.
4. solar, wind, tidal



Reflect on the goals

Go back to the second slide of the lesson and check if you have achieved all the goals of the lesson.

yes

no



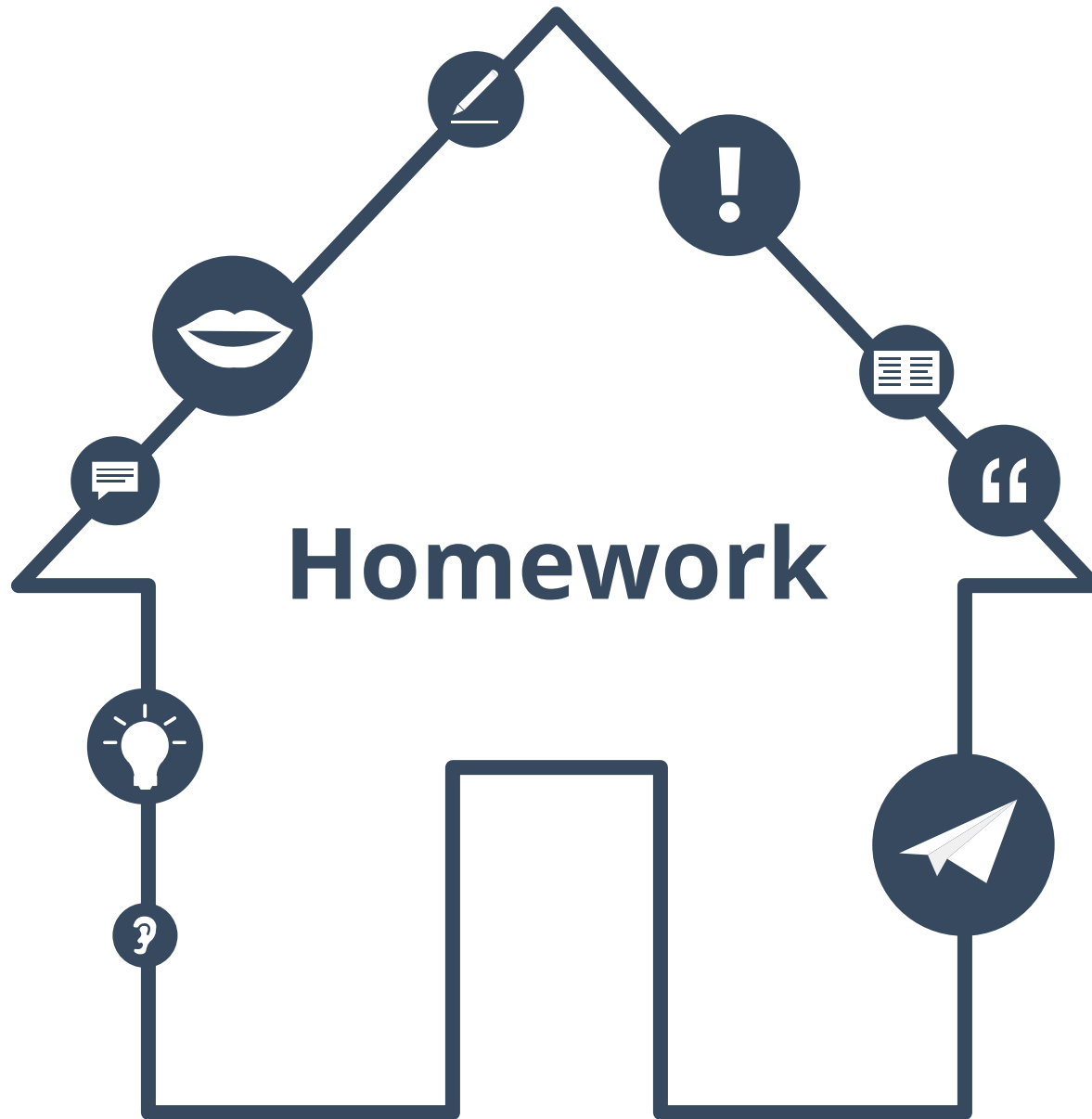


Reflect on this lesson

Think about everything you have seen in this lesson.
What were the most difficult activities or words? The easiest?



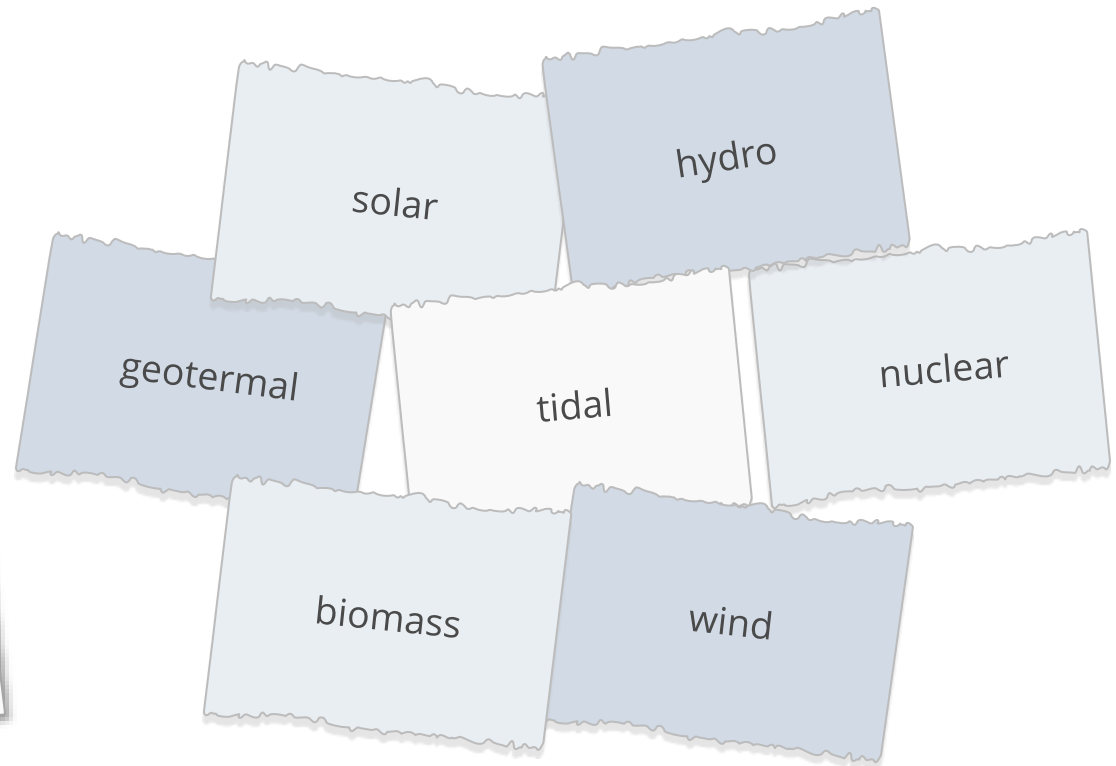
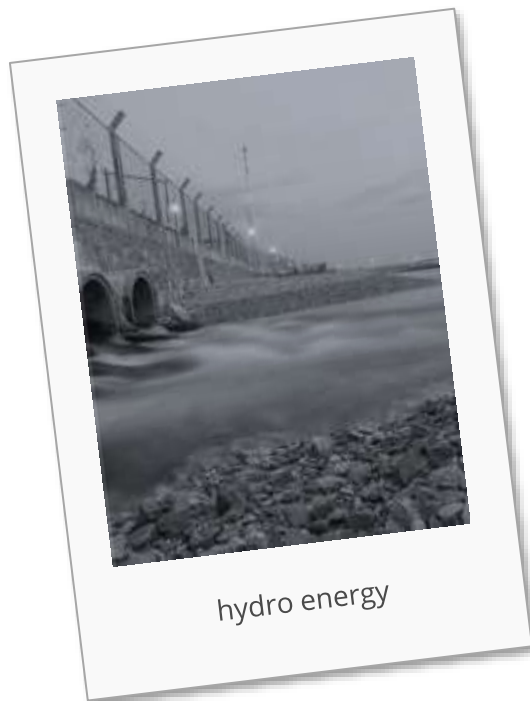
If you have time, go over
the most difficult slides again





Homework

Find the odd one out. Make a note why it is the odd one.





Homework writing activity

Write three-three sentences about
1. how global warming affects your country
2. the positive steps your country is taking against climate change.

○	Summer is longer and hotter than ten years ago.
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Homework answer key

Exercise 1, p.33

Nuclear, as it is a non-renewable energy source while the rest of them are renewable.



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