



**DEAF
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ACTION**



Module 4

Sustainable Energy



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Content Overview

Morning Session (09:00 – 12:00)

▪ Knowledge

- Intro – Video
- Forms of energy
- How does energy work?
- Green energy

- Use of Energy (Society & Individual)
- Energy Consumption
- Saving Energy

- Reflexion: Blackout
- Conclusion



Afternoon Session (13:00 – 16:00)

▪ Action - project work

Feedback



Learning objectives

Joint action	Joint creation of an energy plan for a "climate-neutral" neighbourhood (town)
Own actions	My options for reducing personal energy consumption? Examples: Switching off appliances or using green electricity
Sustainability	Developing a long-term plan for a city or region to transition to sustainable energy
Political action	Analysis of the role of the European Green Deal and other policy initiatives in the energy transition



Intro - Explanation

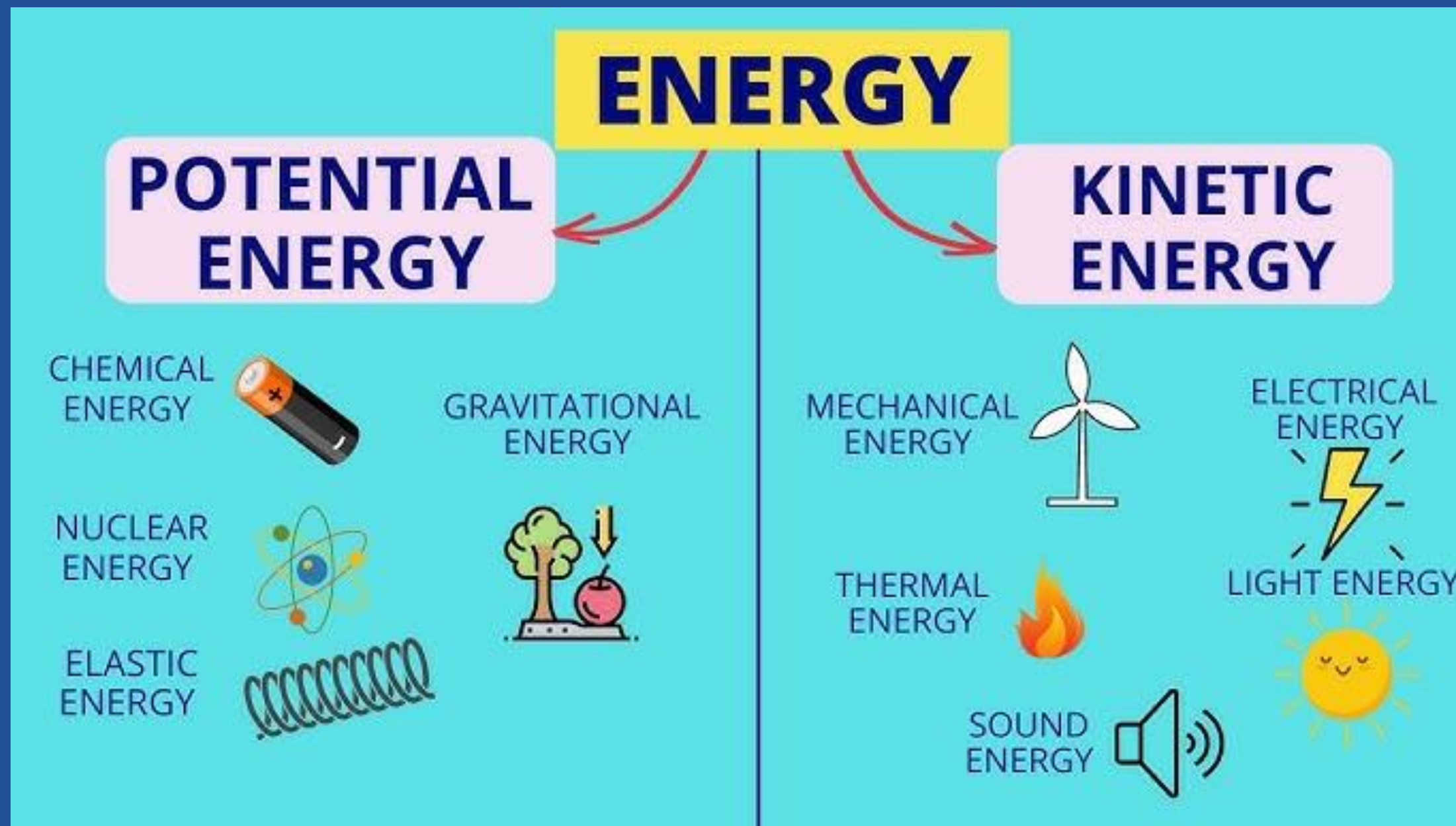
The screenshot shows the DEAF CLIMATE ACTION website. At the top left is the logo. The navigation menu includes 'About', 'Partners', 'Curriculum', 'Contact', 'English', and a 'Materials' button. The main heading is 'Videos'. On the left is a vertical list of topics: Earth Overshoot Day, Climate Change, 3R, Microplastics, Fast Fashion, Energy Saving (highlighted in green), Environmental Health, European Green Deal, Disasters, and Protection of water. On the right are two video thumbnails. The first is titled 'Wat is energiebesparing? A' and shows a person signing next to a washing machine with energy efficiency icons. The second is titled 'Hoe kun je energie besparen? B' and shows a person signing next to an 'A++' energy rating arrow. Both thumbnails have a 'Link kopier...' button.



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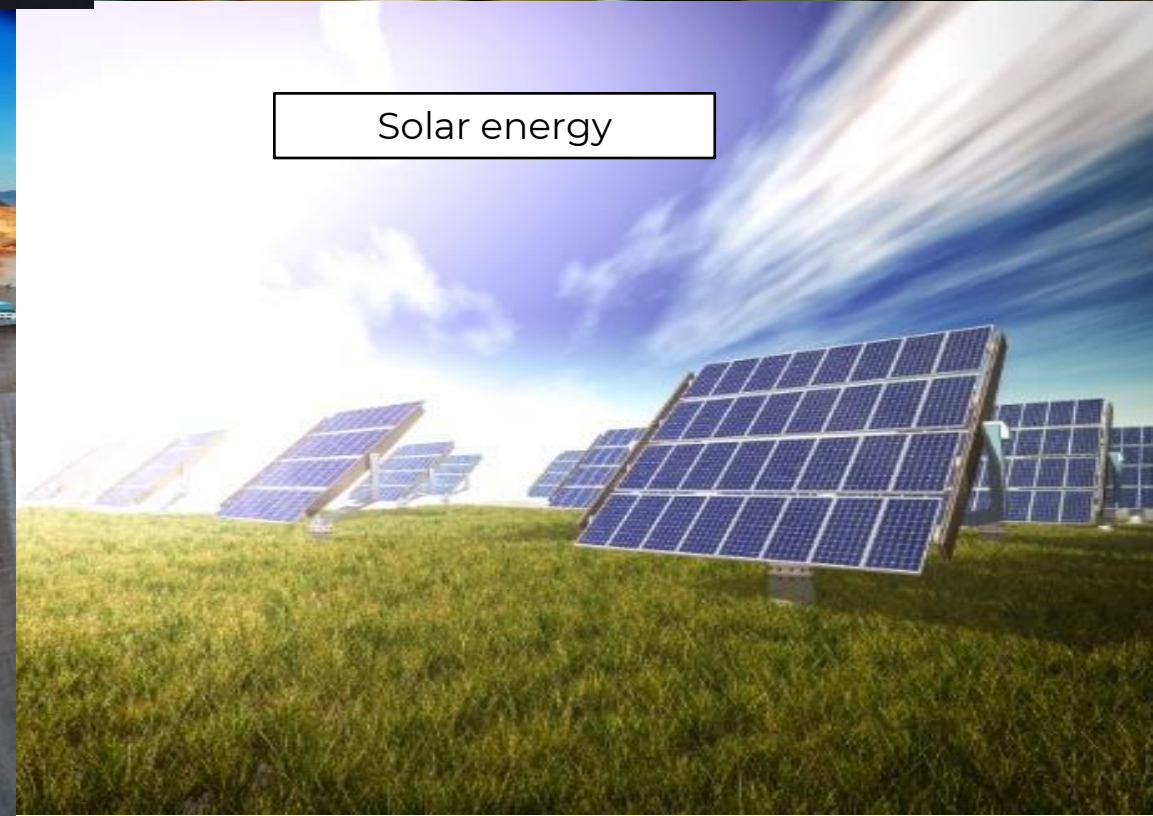
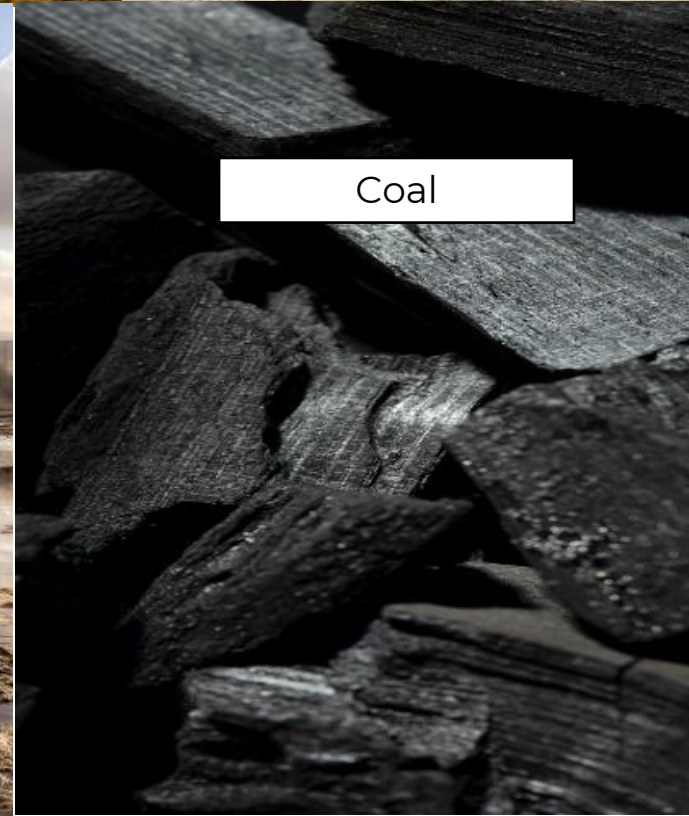
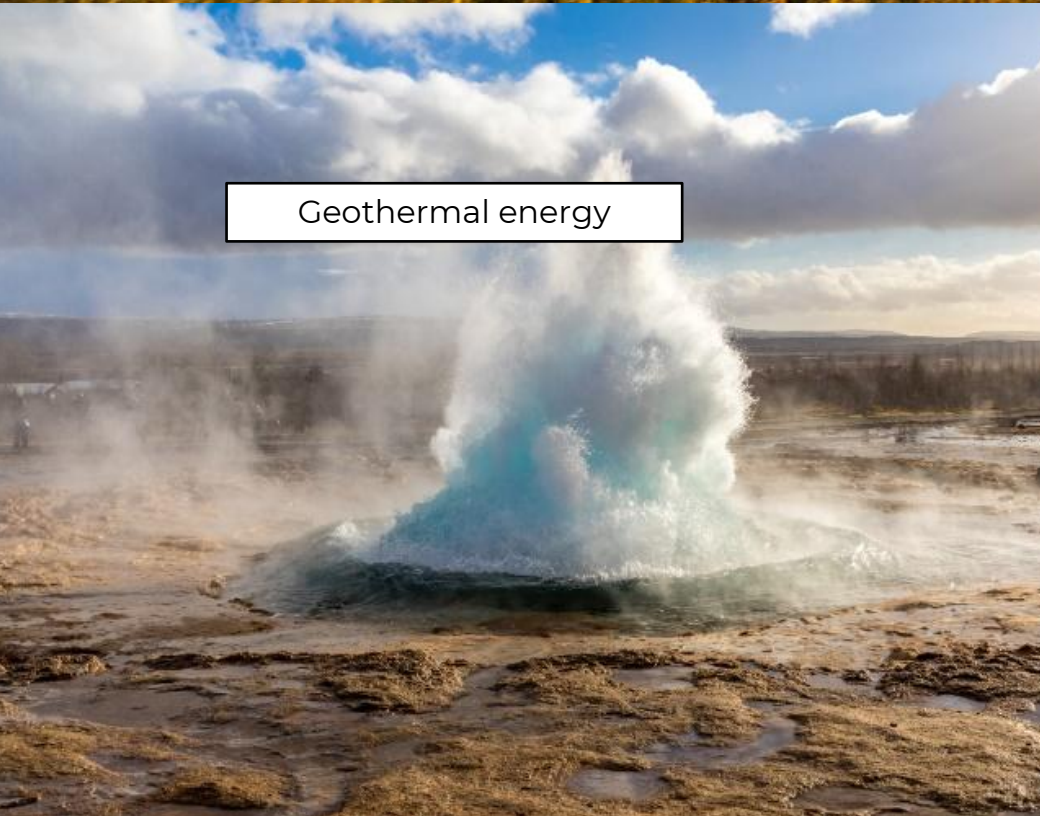
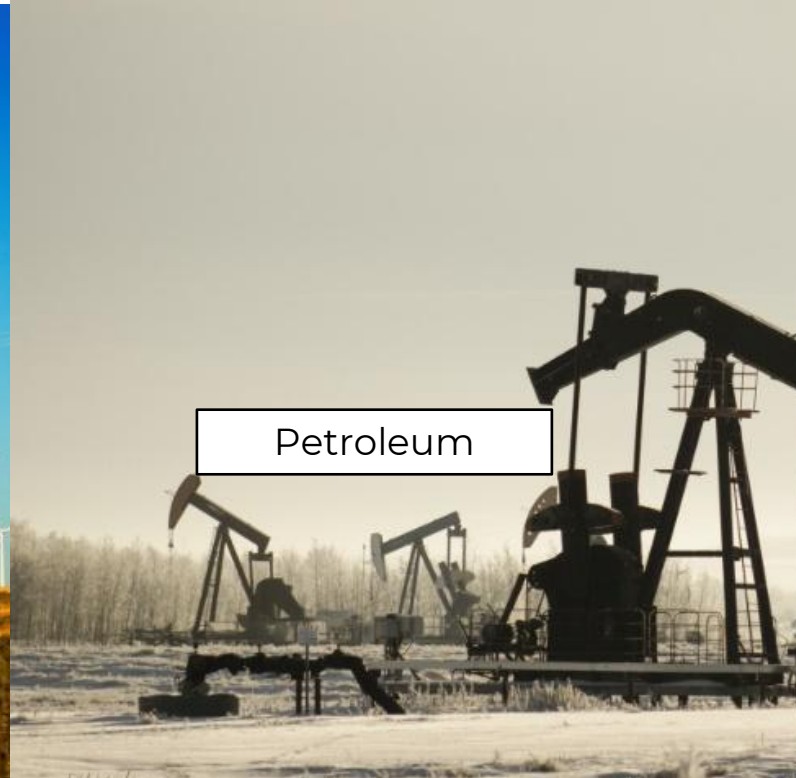
What is energy?

Energy is the capacity for doing work (heat, motion, light, sound, life)



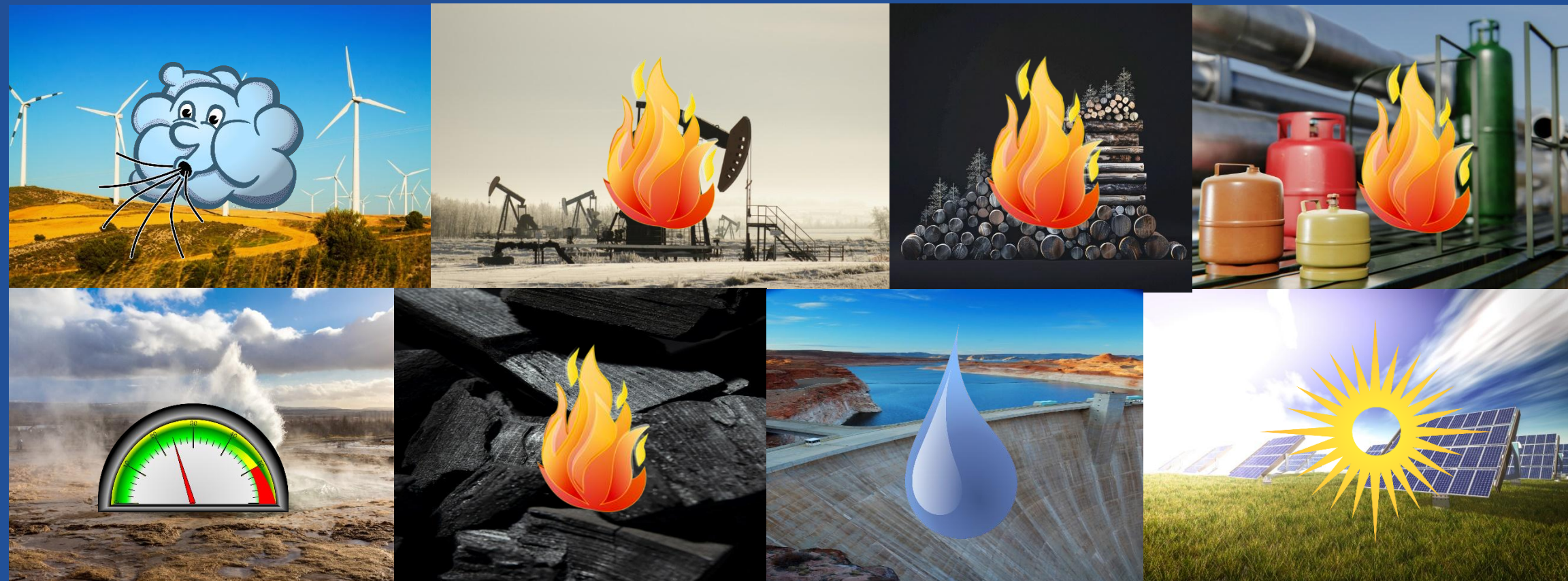


Forms of Energy



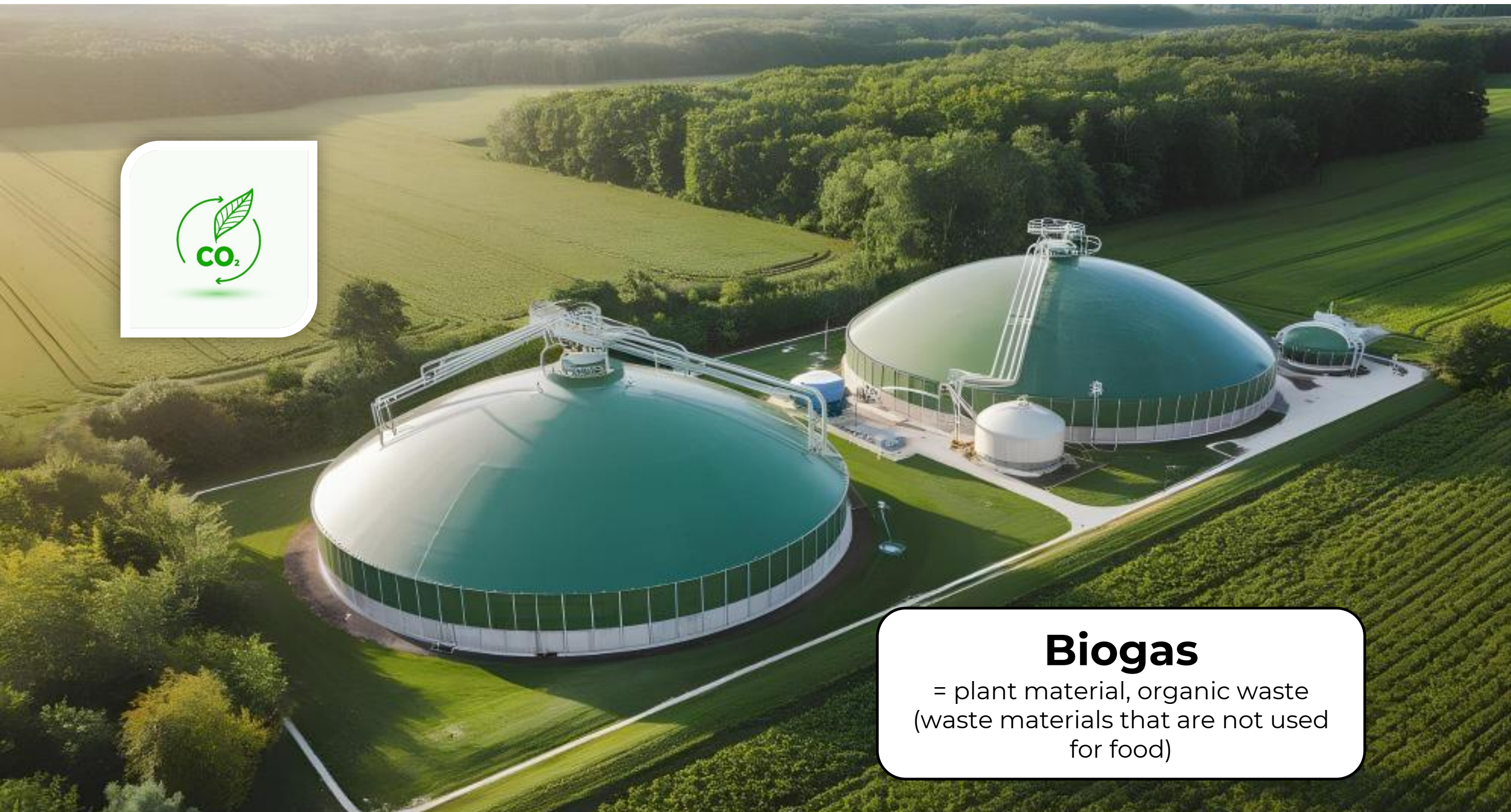


What do the energy forms need to function?





New: Bio Gas



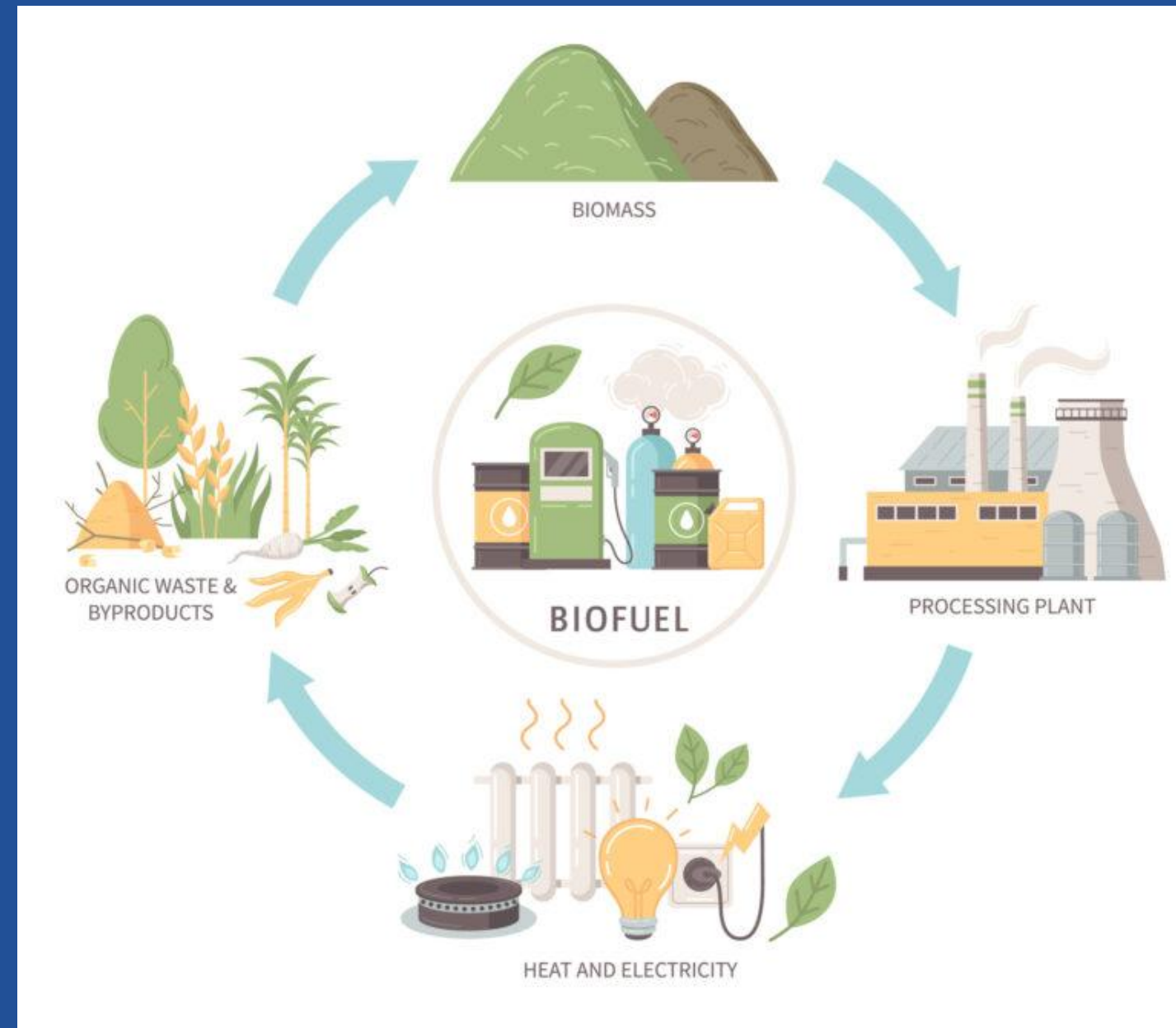
Biogas
= plant material, organic waste
(waste materials that are not used
for food)



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Bio-Gas → How?





Energy is also generated from waste!

<https://www.youtube.com/watch?v=1YOEclj4LsQ>

Die Müllverbrennungsanlage Spittelau wurde 1971 errichtet,

Adjust automatic subtitles in your language.

energie leben.at



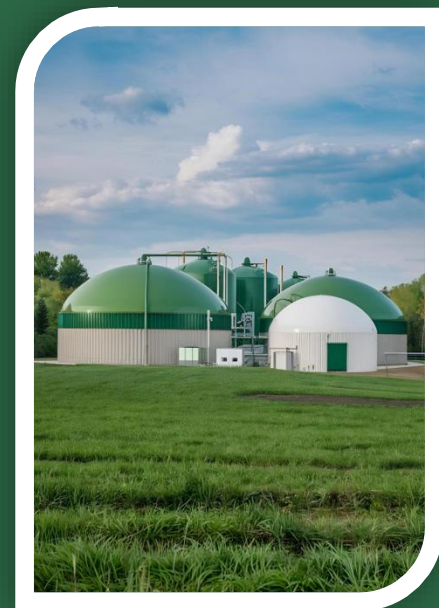
Source:
[Hinter den Kulissen: Müllverbrennungsanlage Spittelau](#)



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100 % green energy



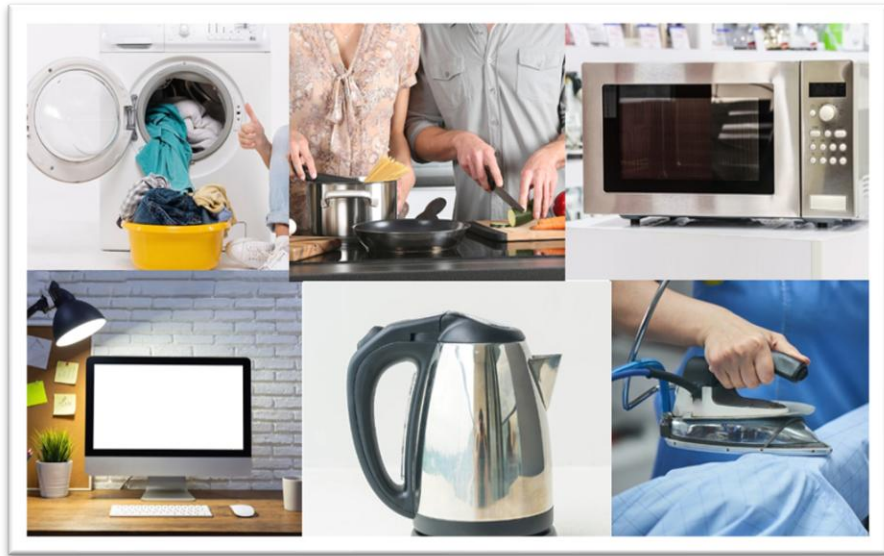
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Discussion



What do **WE** need energy for?
Society-Level

Write or draw
your ideas.





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my Energy Diary

individual and group work



discussion



Write or draw all the things
you need energy for every day.

Stick all your notes on a wall.

Energy saving

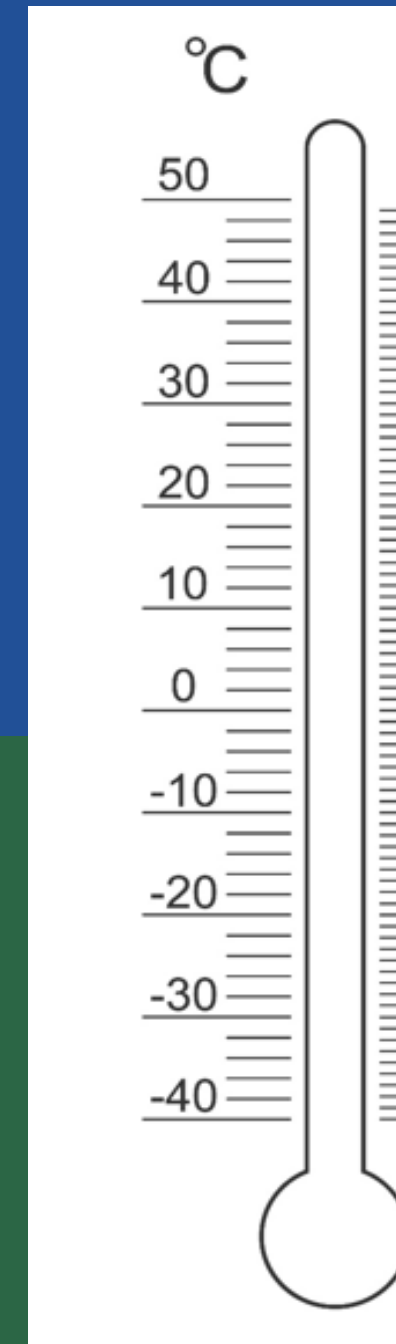


Temperature Quiz & Tips



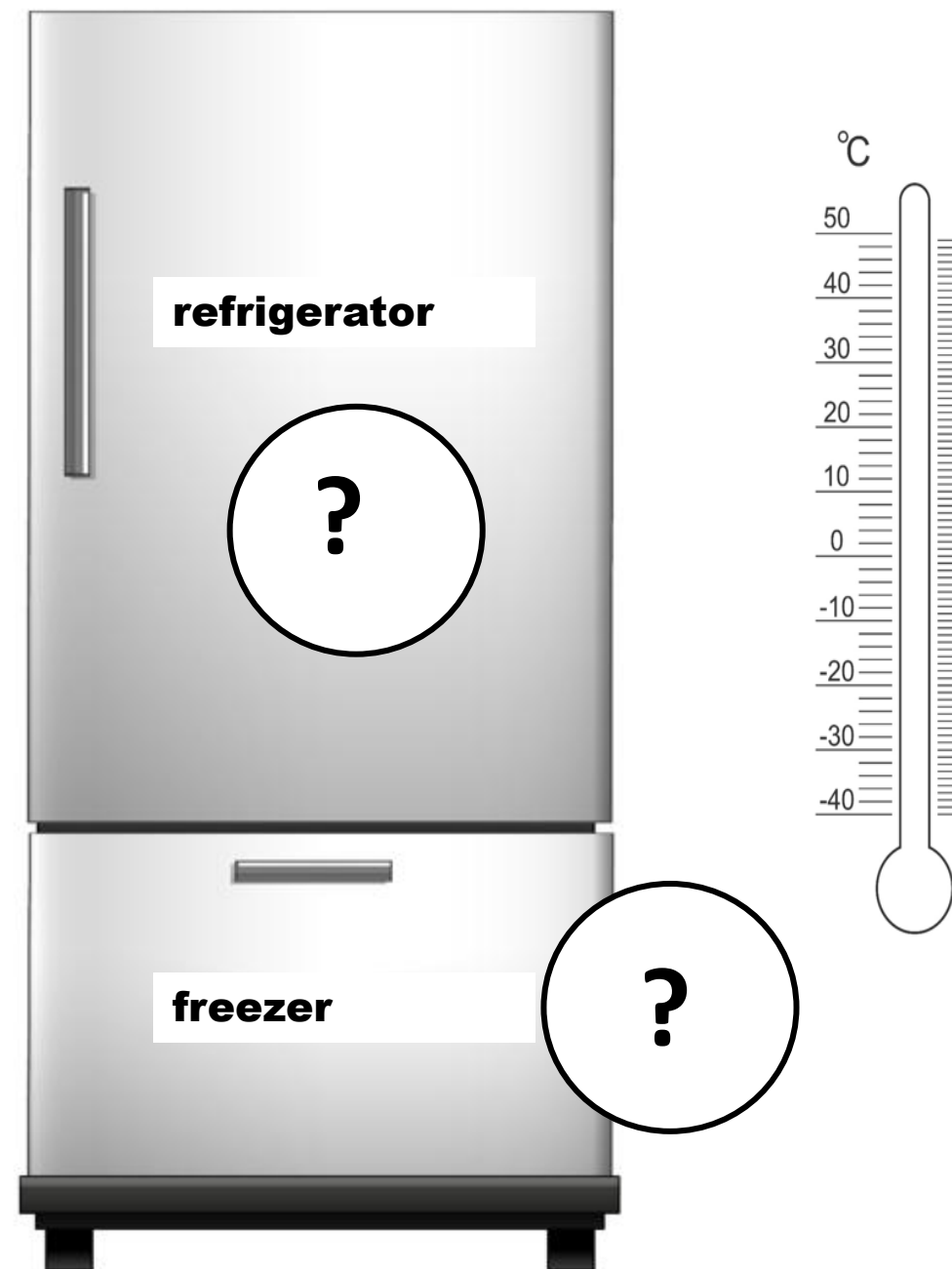
Heating and cooling account for the largest share of household energy consumption.

You can save a lot in this area.



at home

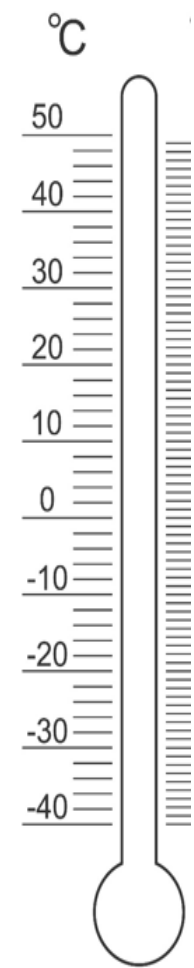
Quiz



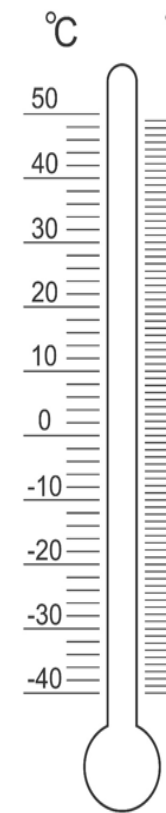
Quiz



Quiz



Quiz



18°



18° - 20°



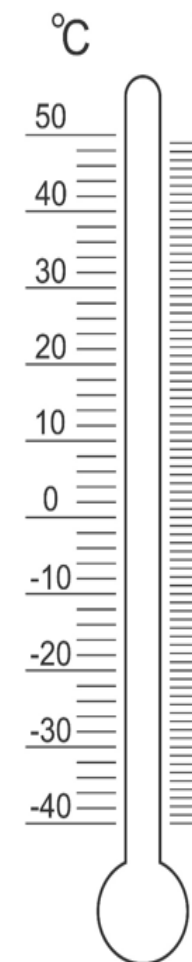
21° - 23°



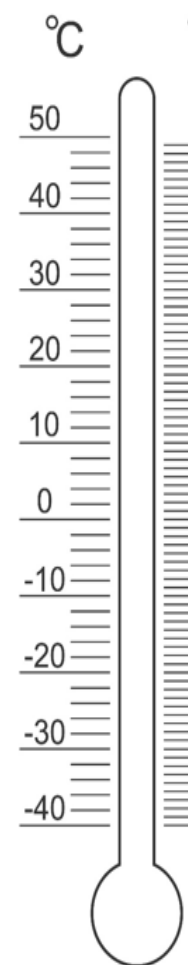
18°



Quiz

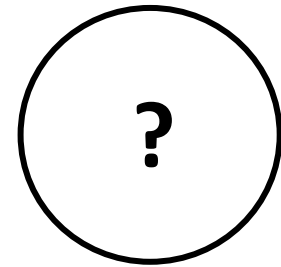


Quiz

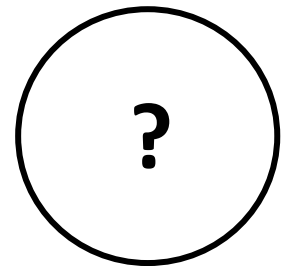


at the workplace

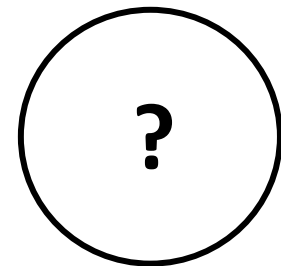
Quiz



for low physical exertion (e.g. office)



during normal physical exertion (e.g. trading)



when working with high physical stress



at the workplace

Quiz



19° to 25 °

during low physical exertion (e.g. office) between 19 and 25 °C



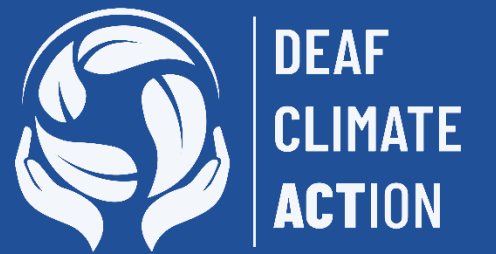
18° to 24 °

during normal physical exertion (e.g. trading) between 18 and 24 °C



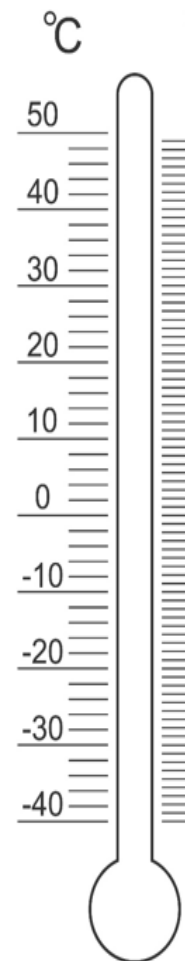
at least 12°

Physical exertion at least working at a high temperature of 12 °C



What do you think?

Quiz



No one is at home (school, work...)
How do you adjust the heating?

?

Babies and toddlers sleep best
at xx degrees.

?

I'm going on vacation for 3 weeks.
Do I turn off the heating?

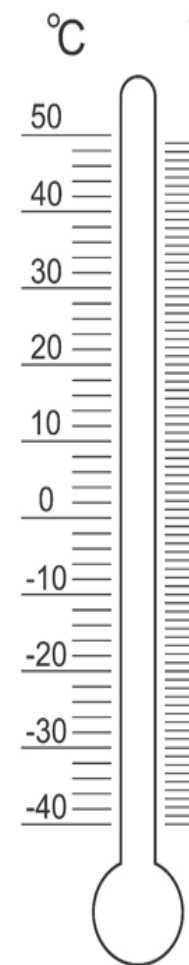
?



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What do you think?

Quiz



No one is at home (school, work...)
How do you adjust the heating?

**15°
bis
17°**

Babies and toddlers sleep best
at 18 degrees.

18 °

I'm going on vacation for 3 weeks.
Do I turn off the heating?
NO

15°



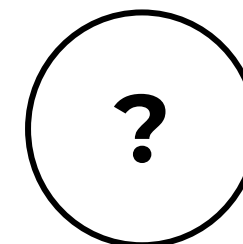
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What do you think?

Quiz



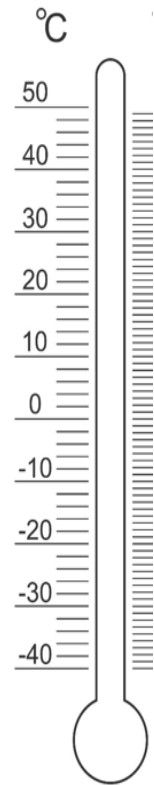
How many degrees do the steps heat up?
1, 2, 3, 4, 5?



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What do you think?

Quiz



How many degrees do the steps heat up?
1, 2, 3, 4, 5?



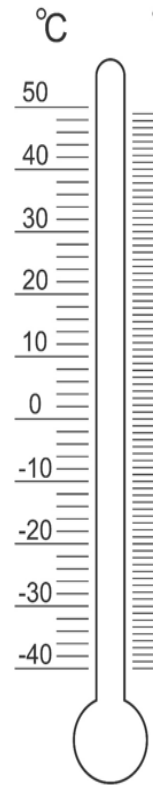
1	12 °
2	16 °
3	20 °
4	24 °
5	28 °



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What do you think?

Quiz

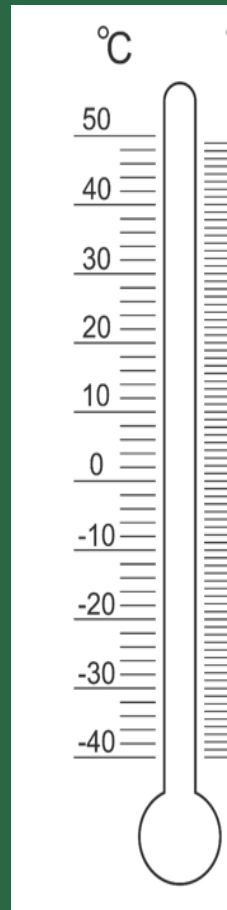


How many degrees do the steps heat up?
1, 2, 3, 4, 5?



1	12 °
2	16 °
3	20 °
4	24 °
5	28 °





Tips

Everyone perceives temperature differently.

**The lower you set it,
the less you consume.**



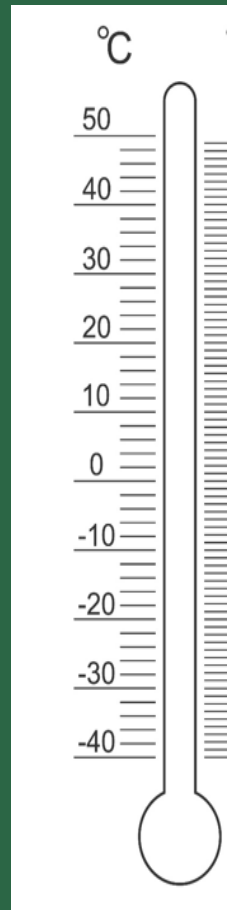
You use each room differently
(bedroom, kitchen, bathroom, etc.).

Keep this in mind:
regulate each room differently.



Before winter:
Bleed the radiators.





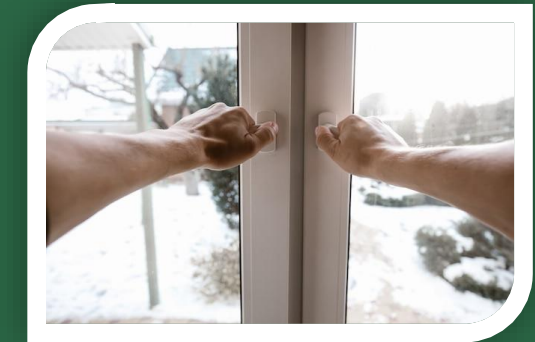
Tips

It's better to dress warmer
than to heat more.

In winter: blankets are also cuddly and warm.



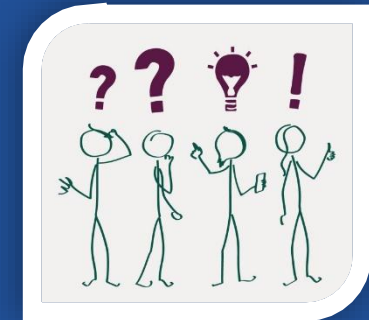
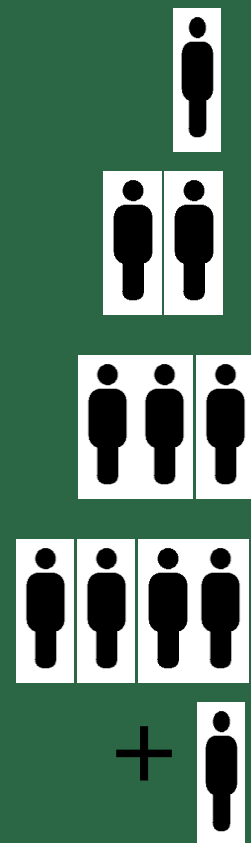
ventilate properly
e.g. shock
ventilation



Seal windows
and doors.



Energy Consumption Quiz



Electricity consumption
in kilowatt hours (kWh)
per person in the household per year

Tip:

Baking two pizzas in a convection oven = 1 kWh

1 shower = 6.1 kWh

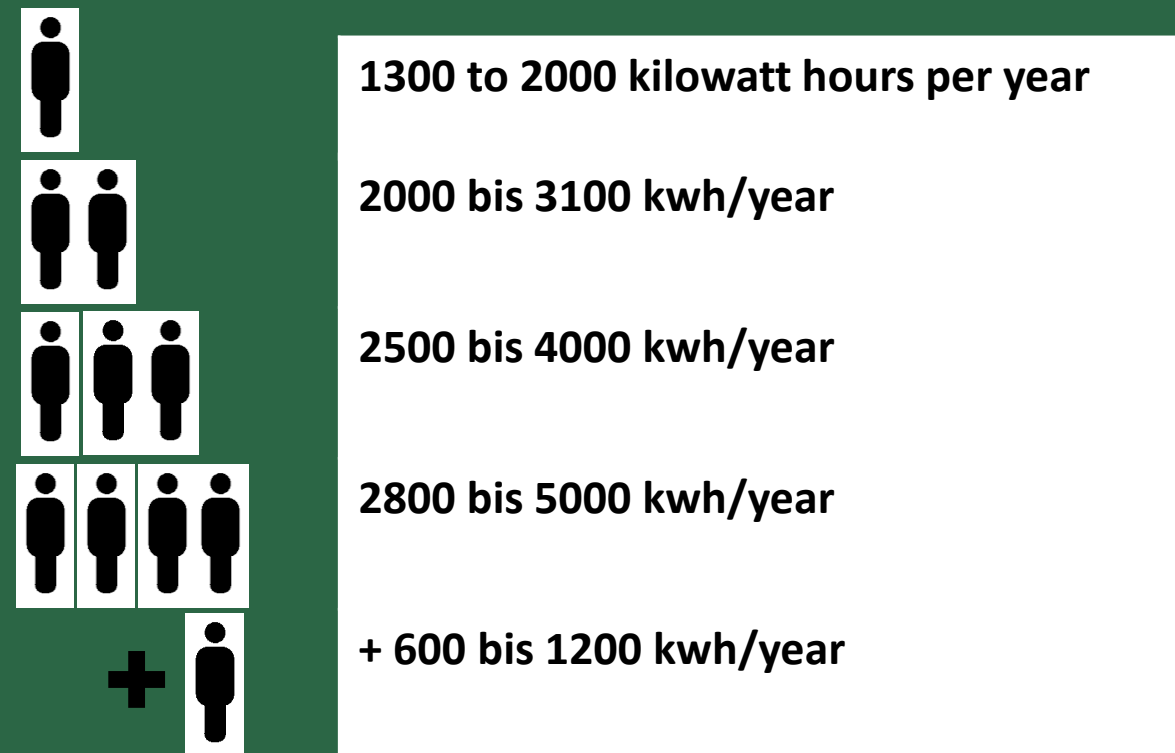
Heating = 20–35 kWh per day



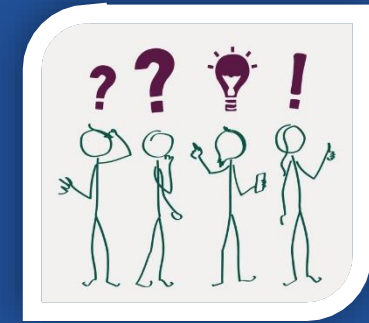
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Energy Consumption

Quiz - Solution



Quelle: <https://www.check24.at/>



Electricity consumption
in kilowatt hours (kWh)
per person in the household per year

Tip:

Baking two pizzas in a convection oven = 1 kWh

1 shower = 6.1 kWh

Heating = 20–35 kWh per day



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What would it be like without energy?



Discussion

**case study
blackout**



ACTION

Energy City Plan

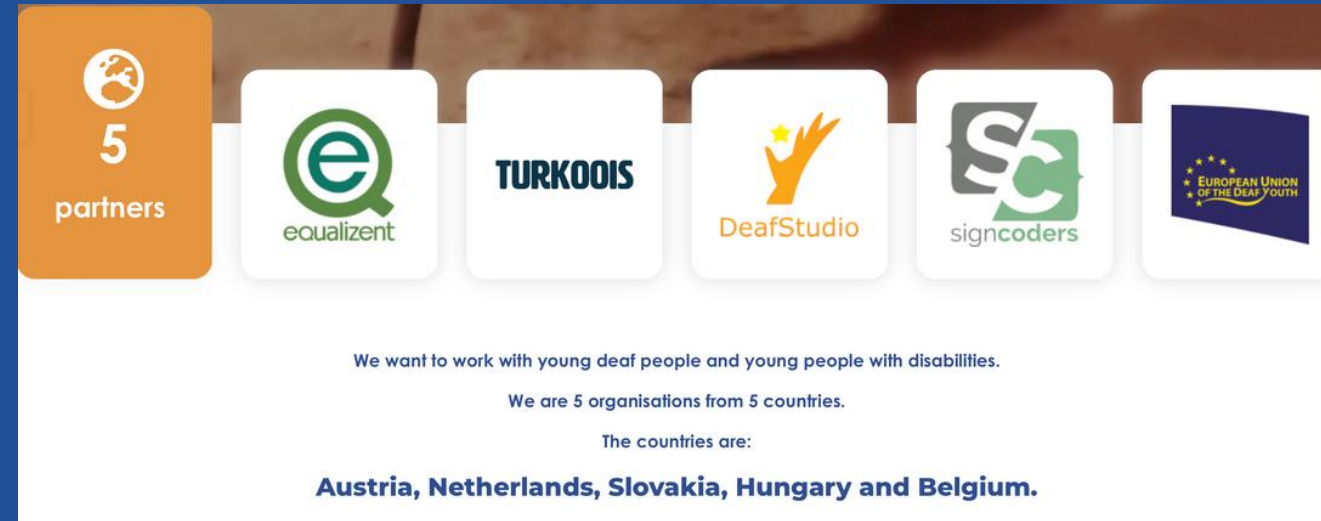
Build a model city and show how to power your city.

Inform the residents about saving energy
(e.g. information leaflets on houses or in the subway).

In your model city there are:
hospital, many residential buildings, parks, schools, etc.
What does the cityscape look like?
E.g. houses with solar panels, streets with trees, e-cars



Thank you!



www.deafclimateaction.eu



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