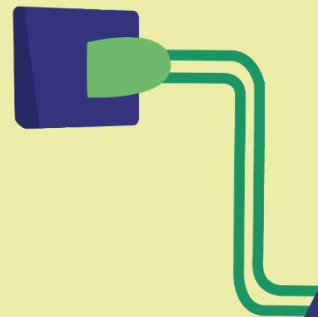


Sustainable Development Goals

Lesson 13

Goal 7 – Affordable and Clean Energy (1)

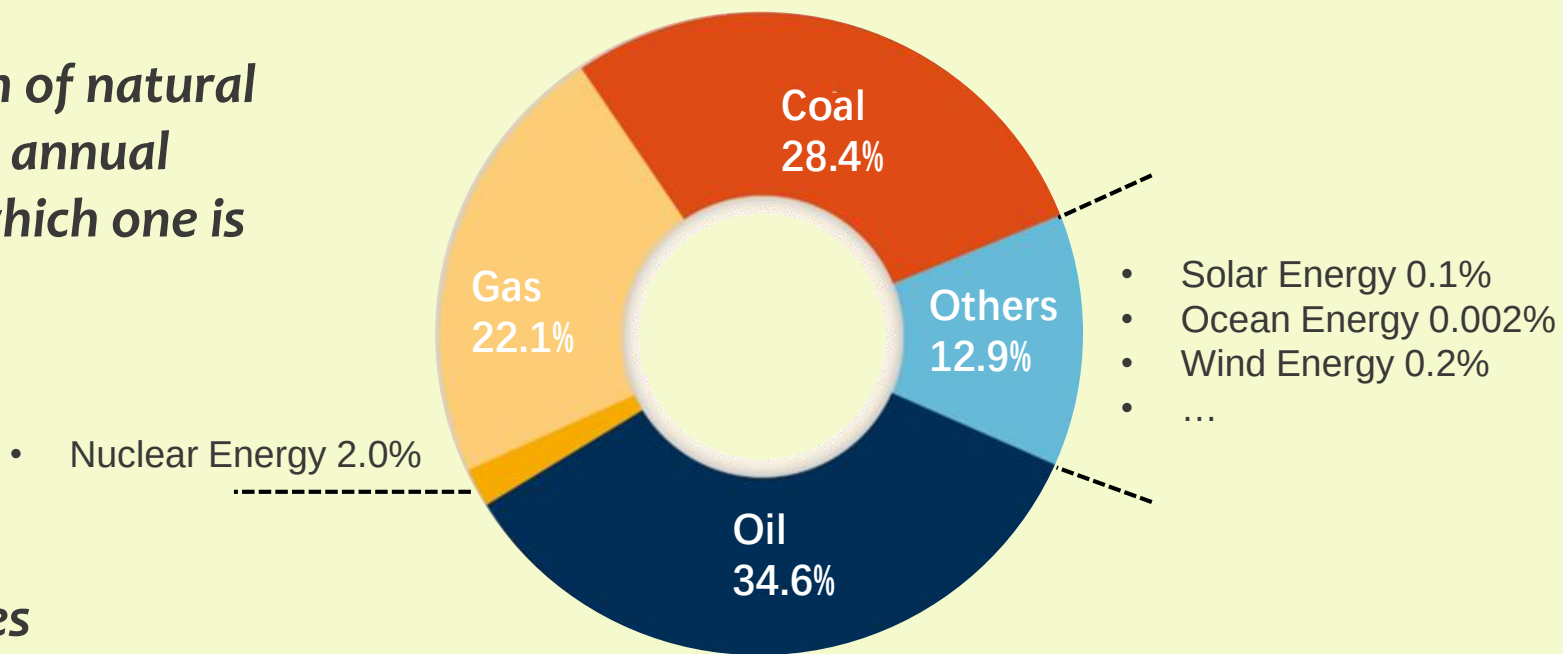




Think and Answer

1. Look at the chart. Which form of natural energy represents the largest annual spending in the world? And which one is the smallest?

2. Which of these energy sources do you think can be reused?



Global Spending of Natural Energy (annually)



Words to Know

Read the sentences and answer the following questions.

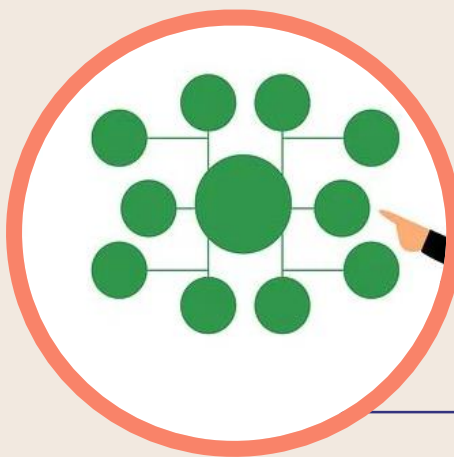


The power station supplies us with **electricity**.

*How's life going without electricity?

Many factories use **carbon fuels** in their production process.

*What are the effects of using carbon fuels?



The **distribution** of natural resources is unequal in the whole world.

*What are the richest natural resources in your country?

We should make good use of wind power, which is a **renewable** energy.

*Do you know any other renewable resources?





Power Resources

Nowadays, global **electricity** use continues to increase faster. Applying for electricity connection has expanded in both urban and rural areas. Without electricity:

- electronic products cannot be used;
- school children cannot do homework at night;
- most vehicles will not be used;
- factories cannot run smoothly;
- countries will not be able to power their economies...





Reading

For a long time, coal, oil and gas have been major sources of electricity production, but burning these **carbon fuels** produces a lot of greenhouse gases. It will cause climate change and harm the environment and public health.

Therefore, we should use more clean energy. Energy from the water, the wind, and the sun are clean and can be reused. Such energy is called **renewable** energy.

VS

Non-renewable Energy

Non-renewable energy are traditional energy that can not be renewed, such as coal oil and gas...

Renewable Energy



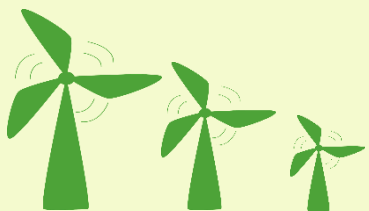
power from the water



power from the sun



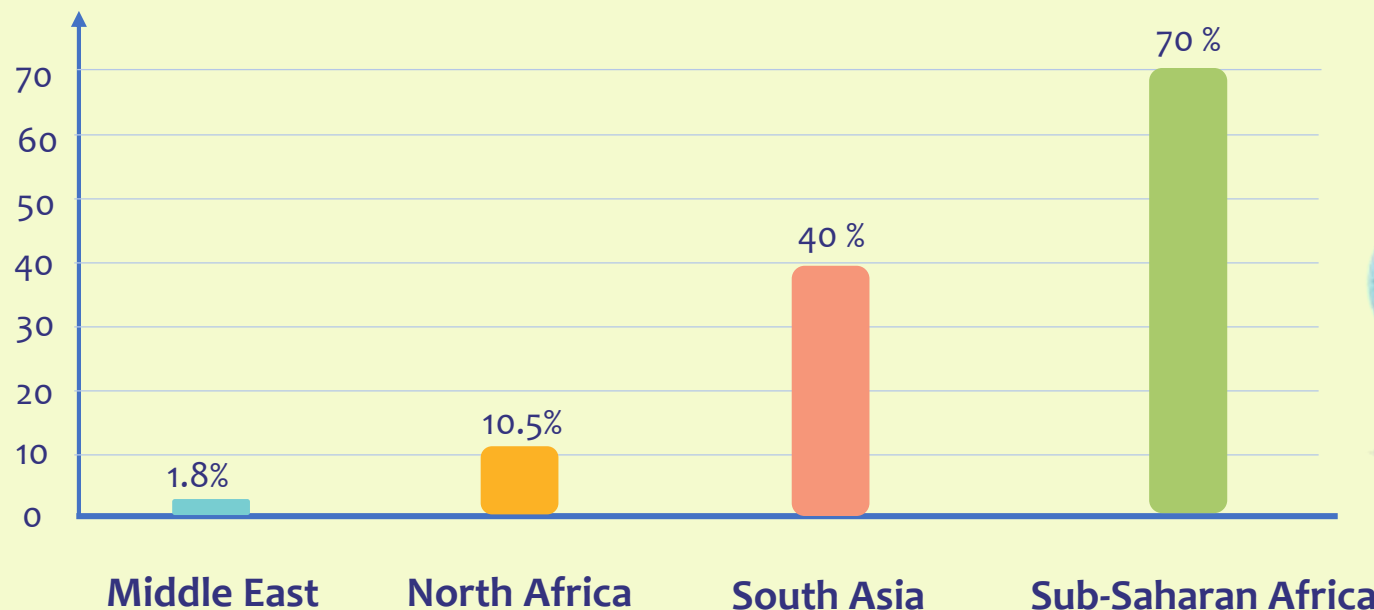
power from the wind



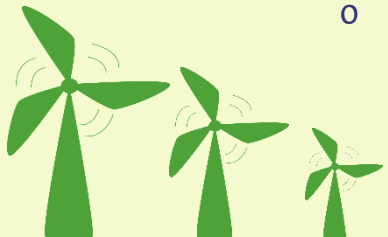


Renewable energy is making great progress. However, the **distribution** of renewable resources is unequal. At the same time, some countries do not have access to this resource due to lack of **technologies**. So, more attention is needed to improve access to clean energy and high technologies for people around the world.

The Distribution of Renewable Resources



Although Sub-Saharan Africa has the maximum renewable resources, do you think they have high technologies to explore these resources?





Respond to Reading

Sort the renewable or non-renewable energy.

wind



gas



woods



solar energy



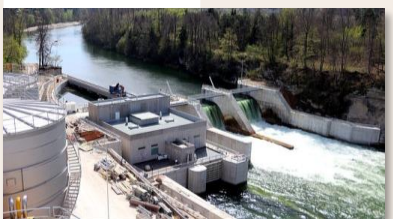
a.

Renewable Energy

b.

Non-renewable Energy

water



coal



oil



soil





Read the Sustainable Development Goals from United Nations.

Sustainable Development Goals

Goal 7 – Affordable and Clean Energy



1. By 2030, ensure access to affordable, reliable and modern energy services.



2. By 2030, double the global rate of improvement in energy efficiency.



3. By 2030, enhance international cooperation to improve access to clean energy research and technology.

Deeper thinking after class:



What should countries and individuals do to get much clearer and safer natural resources?

How to improve clean energy research and technology?



Task: Conduct research and gather data on clean energy in your country for your **preview paper**.