



Funded by  
the European Union



---

# Exploring Energy and Energy Sources

## Students' Worksheets

---

September, 2025

---

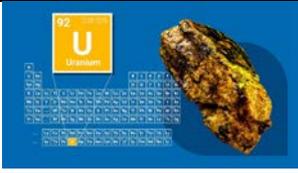
Project Partners



## WORKSHEET ES1: ENERGY SOURCE CLASSIFICATION AND ANALYSIS

You have been learning about energy sources. Now you will test what you have learned.

1- Examine the following images of energy sources and their corresponding captions.

		
Water	Coal	Sun
Your answer:	Your answer:	Your answer:
		
Oil	Wind	Biomass
Your answer:	Your answer:	Your answer:
		
Natural Gas	Sea waves	Uranium
Your answer:	Your answer:	Your answer:

2. Classify each energy source as Renewable (R) or Non-renewable (NR) and write down your answer.

3. List one advantage and one disadvantage of each energy source. Use the table below

Energy Source	Type (R or NR)	Advantage	Disadvantage	Interesting facts



## WORKSHEET ES2: RESEARCH TEMPLATE – MY ENERGY SOURCE

You have learned about the advantages and disadvantages of several energy sources. Now, we invite you to choose one energy source to learn more about it.

1. Which energy source do you choose? \_\_\_\_\_

2. Now, we invite you to do some research on your chosen energy source. You may use books, reliable websites, and online resources suggested by your teacher, according to the energy source you chose.

Use the template to guide your research and to register the information gathered on your chosen energy source.

### My energy source

Name of energy source: _____
Name of the energy generated: _____
Type (R/NR) of energy source: _____
Description: _____
How it works: _____
Advantages: _____
Disadvantages: _____
Current usage examples: _____
Environmental impact: _____

3. Prepare a short presentation for your colleagues that includes, among others, information on:

- Whether the selected energy source is used in your country.
- Where and how energy is produced from this source.
- Whether families can use it at home or locally.



Funded by  
the European Union



## WORKSHEET ES3: CITY TRANSITION TO RENEWABLE ENERGY

As you are aware, cities need to use energy for several purposes. They have to make decisions about which source or sources of energy they should use to follow the guidelines for making the transition to renewable energy.

1. We would like you to read and discuss the following Scenario:

A city near your place wants to reach 60% renewable energy by 2035. As an expert in energy, you are invited to help the Municipality decide which energy source or sources they should use. The task of your group is to make a proposal to be presented to the municipality. You should decide which energy sources the city should use and explain your choices.

2. To make your proposal, you should keep in mind the good practices of teamwork (like task sharing, respect for others' opinions, use of evidence-based argument, etc.) and research (quality of the information sources, ethical use of information, etc.).

3. Your proposal should address the following topic:

Proposed Energy Source(s);

Reasons for Choice;

Challenges and Solutions.

4. You may include drawings, pictures, and references of the information sources (digital or printed) used to support your proposal.

5. After completing your proposal, you should prepare a short presentation for your colleagues.



## WORKSHEET ES4: PEER- AND SELF-ASSESSMENT FORM

The work you do in your small group should help your classmates learn. When you present the result of your group work to the whole class, you are taking the role of teacher and the members of the other groups are taking the role of your students. When other groups are presenting the result of their group work, you are a student of theirs.

### Assessment of Group Presentations

You are invited to peer evaluate other groups' presentations, among others, to help them improve the way they communicate the results of their work.

After listening to each group's presentation, complete this form.

Group Name	One Positive Point	One Suggestion for Improvement

### Assessment of Group Presentations

You are also invited to evaluate your group work, using the checklist below. This will help you to become aware of what you did and learned, and also how cooperation was within the group.

Mark: ✓ = Yes; ~ = Somewhat; ✗ = No.

#	Statement	✓ / ~ / ✗	Comment (optional)
1	I/We participated actively and contributed ideas.		
2	I/We listened respectfully to others' ideas and feedback.		
3	Our explanations were clear, accurate, and based on research.		
4	I/We worked well as a team and stayed on task.		
5	I/We gave useful feedback to other groups.		
6	One strength of our/this group's work was:		
7	One thing to improve for next time is:		



## WORKSHEET ES5: CREATING A BROCHURE CAMPAIGN

You have learned a lot about energy sources and learned that some energy sources are environmentally more friendly than others.

1. Now, your task is to create an eye-catching brochure to persuade people in your community to save energy and adopt sustainable practices.
2. Your brochure should convince community members to conserve energy. Highlight **why** it matters and **how** they can take action.
3. Think about your local community—families, neighbors, or classmates. Use simple, clear language that they will understand.

### Instructions

#### Content to Include

- A **catchy title** (e.g., “Save Energy, Save Our Future!”).
- **Why conserving energy is important** (e.g., reducing costs, protecting the environment, ensuring energy security).
- **3–5 practical tips** people can follow (e.g., turning off lights, using public transport, installing LED bulbs, using renewable energy).
- A **local fact or statistic** about energy use or renewables (optional but powerful).
- A **call to action** (e.g., “Join our community in saving energy—start today!”).

#### Design Guidelines

- Use **bold headings**, **short paragraphs**, and **bullet points**.
- Include **images or icons** to make it visually appealing.
- Choose **2–3 colors** for consistency.
- Keep the layout simple and easy to read.

#### Tools You Can Use

- **Paper and markers** for hand-drawn brochures.
- **Free online tools:**
  - . Canva Brochure Maker: <https://www.canva.com/create/brochures/>
  - . Adobe Express Brochures: <https://www.adobe.com/express/create/brochure>
  - . Tutorial video for beginners: [How to Make a Brochure in Canva](#)



Funded by  
the European Union



## WORKSHEET ES6: REFLECTION SHEET FOR “EXPLORING ENERGY AND ENERGY SOURCES”

Now that you have finished learning the topic “Exploring Energy and Energy Sources”, it is time to make a balance of what you did and learned.

Write short answers to each question.

1. The most interesting fact I learned is: \_\_\_\_\_
2. The energy source I would choose for my home is: \_\_\_\_\_
3. I would choose it because: \_\_\_\_\_
4. One thing I still wonder about energy sources is: \_\_\_\_\_
5. What I enjoyed most to do is: \_\_\_\_\_
6. What I enjoyed least to do is: \_\_\_\_\_
7. What should be improved in the classes is: \_\_\_\_\_
8. Other issue(s) that I would like to mention is: \_\_\_\_\_