ENERGY SOURCES

RENEWABLE ENERGY



Wind



Hydropower



Solar



Geothermal



Biomass

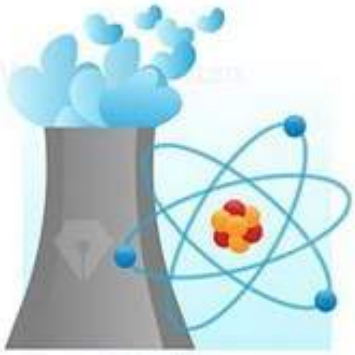
NON-RENEWABLE ENERGY



Oil



Coal



Nuclear



Natural Gas

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RENEWABLE ENERGY

CLEAN, GREEN and SERENE

What is Renewable Energy?



Renewable energy comes from natural sources like the sun, wind, water, and earth's heat
It never runs out and is good for the environment!





Types of Renewable Energy:

SDG 7 & 13

- Clean Air - No pollution
- Wind Energy - No greenhouse gases
- Hydro Energy - Won't run out
- Biomass Energy
- Geothermal Energy



Benefits of Renewable Energy:

- ✓ Clean Air - No pollution
- ✓ Saves the planet - No greenhouse gases
- ✓ Renewable - Won't run out
- ✓ Creates green jobs

Builds a sustainable future





Let the sun shine, the wind blow, - the rivers flow

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SOLAR ENERGY

What is Solar Energy?

- Solar energy is energy we get from the Sun.
- The Sun gives us light and warmth.



How Do We Use Solar Energy?



To dry clothes



Grow plants



Heat water





To make electricity using solar panels

Why Solar Energy is Good?

- It is clean
- It is free





It never gets finished



Fun Fact



- Plants make their own food using sunlight
- Solar panels turn sunlight into electricity.

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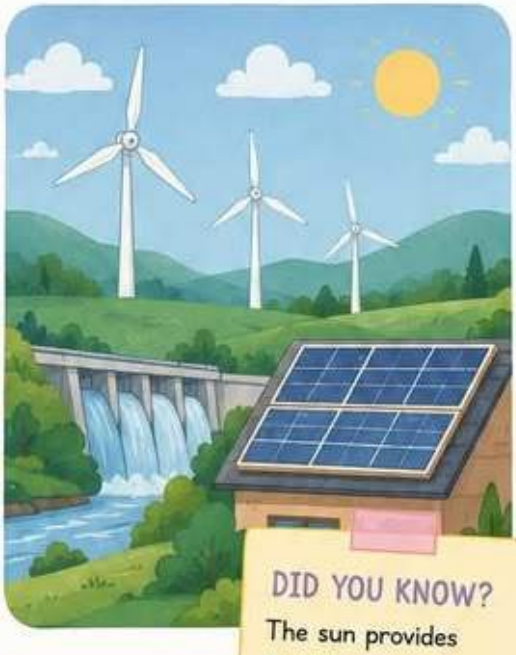
POWERING OUR FUTURE

The Rise of Renewable Energy

For hundreds of years, people have relied on fossil fuels like coal, oil and natural gas to power our homes, schools, transport and industries. While these fuels have helped our world grow, they also come with a big problem: they are not infinite, and they harm our planet.

Renewable energy is a cleaner, smarter solution. It comes from natural sources that are always refilled, such as the sun, wind, water, and the Earth's heat. These sources will not run out, and when we use them, they produce little to no pollution.

Solar energy captures sunlight using solar panels. This energy can be used to power homes, charge devices and even heat water. Wind energy uses turbines to turn the power of the wind into electricity. Hydroelectric energy uses moving water from rivers or dams to generate power. Geothermal energy taps into heat from beneath the Earth's surface.



DID YOU KNOW?

The sun provides enough energy to power the entire world for a whole year in just one hour!

Many countries are investing in renewable energy because it creates jobs, lowers energy costs over time, and protects the environment. However, there are still challenges. Some renewable technologies can be expensive to build, and the weather doesn't always cooperate—if the sun isn't shining or the wind isn't blowing, less energy is produced.

The good news is that technology is improving every day. Scientists and engineers are finding new ways to store energy and make renewable power more reliable. By choosing renewable energy today, we can build a cleaner, healthier and more sustainable world for future generations.

Read the passage carefully, then complete the tasks below.

1. HIGHLIGHT

Highlight the sentence that explains why fossil fuels are a problem.

Use YELLOW

2. UNDERLINE

Underline the sentence that gives an example of a type of renewable energy.

Use PINK

3. CIRCLE

Circle two challenges of using renewable energy mentioned in the text.

Use BLUE

4. THINK & RESPOND

Why do you think it is important for the world to use more renewable energy in the future? Use information from the text to support your answer in 2–4 sentences.

_____

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