

Hello! We're Cation and Anion from the green hydrogen world. The Siamese avatars!

In the green hydrogen world, we get energy from hydrogen. Did you know that it's the most abundant element in the Universe?

But it's not as easy as it sounds. We need to undertake a chemical process called **electrolysis** to obtain it.

So, how do we do it?

It's all thanks to **renewable energies**, as it would be impossible without them.

With the energy we get from the sun, we generate an electric current that separates the water molecules (H_2O) into oxygen and what we need in this world, **hydrogen**.

Wait for the best part!

Green hydrogen is a very clean source of energy, as the only thing it leaves behind is steam.

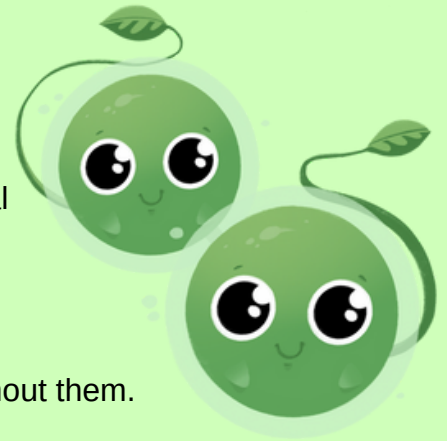
It's very easy to store, allowing us to use it at a time other than when it was produced.

It can be transformed into different types of energy such as electricity, gas, heat... It can be used for different purposes!

It can be transported through existing gas infrastructures.

It's a great opportunity to avoid pollution.

As you can see, green hydrogen has many advantages, but it needs the help of its companions, the renewable energies. Without them, it couldn't exist.



DID YOU KNOW...

.... hydrogen is lighter than any other element in the periodic table, which is why aircraft using hydrogen engines were developed in the 20th century?

... using green hydrogen could save up to 830 million tons of CO2 per year?

... green hydrogen is a viable alternative to electric motors?

1. WHICH OF THE FOLLOWING ARE POSSIBLE APPLICATIONS OF GREEN HYDROGEN AND WHICH AREN'T?

- Storage of potential energy
- Carbonation of carbonated drinks
- To obtain salt
- Fuel to transport
- To obtain energy + water

2. CATION AND ANION NEED YOUR HELP! THEY'RE HALF-FINISHED...JOIN THE DOTS TO COMPLETE THEM AND THEN COLOR THEM IN.

