

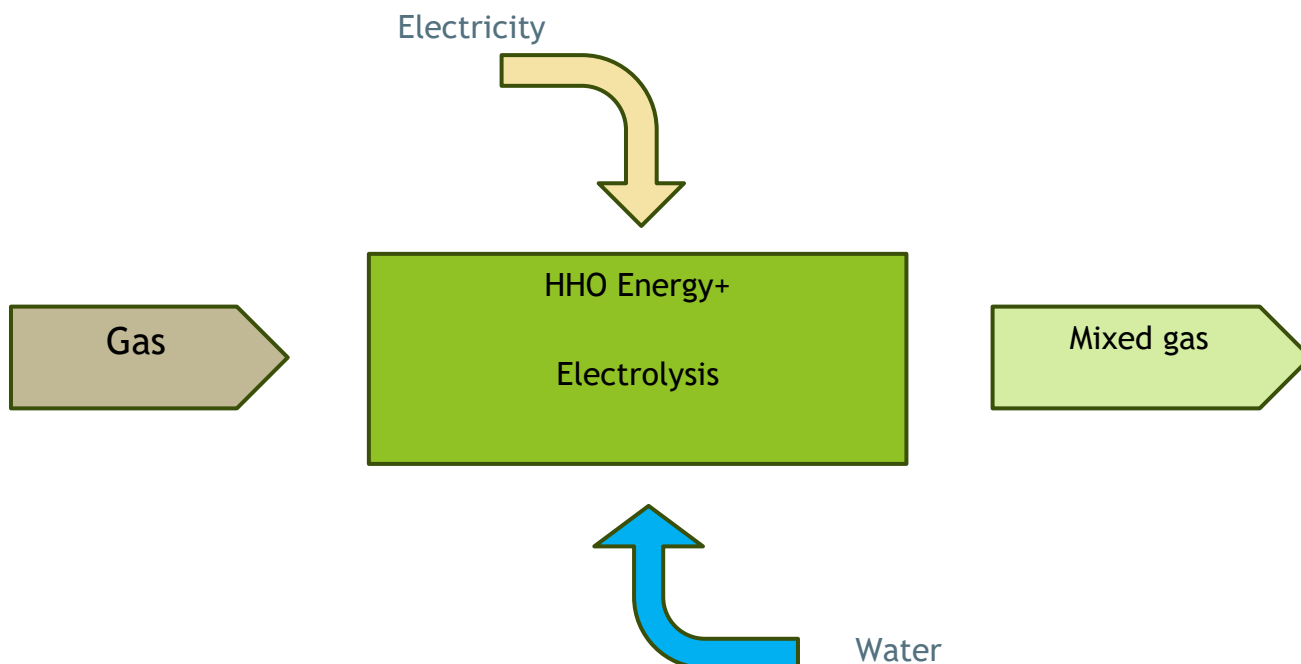
## HHO Energy+

This innovation concerns an innovative process for the electrolytic production of a gas mixture containing oxygen and hydrogen. In this process, electric current is conducted through electrodes into a liquid electrolysis medium. This leads to the production of oxygen and hydrogen gas, which partially escapes from the electrolysis medium as electrolysis gas.

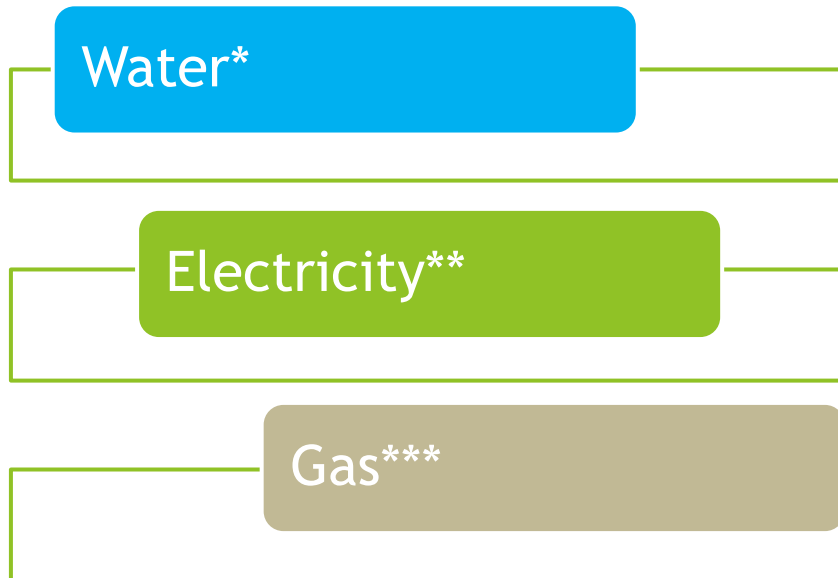
In addition, it is an advanced electrolysis device for the production of this gas mixture. The electrolysis device has at least one container to receive the electrolysis medium and electrodes arranged in it to introduce electric current into the electrolysis medium.

By mixing the electrolysis gas directly with the filler gas, the proportion of oxygen in the gas mixture is reduced. This significantly reduces the risk of explosion and allows for easy handling of the gas. The hydrocarbons ensure that the resulting gas mixture is still flammable and can be used well as fuel.

### Functionality:



## Required connections:



\*Water: Normal and pure tap water can be used for electrolysis. No special treatment of the water is required.

\*\*Electricity: Ideally, "green electricity" should be used (wind turbines, solar panels, etc.)

\*\*\*Gas: Butane, propane, biogas or natural gas can be used for the process.

## Data:

Type of electrolysis: **alkaline electrolysis**

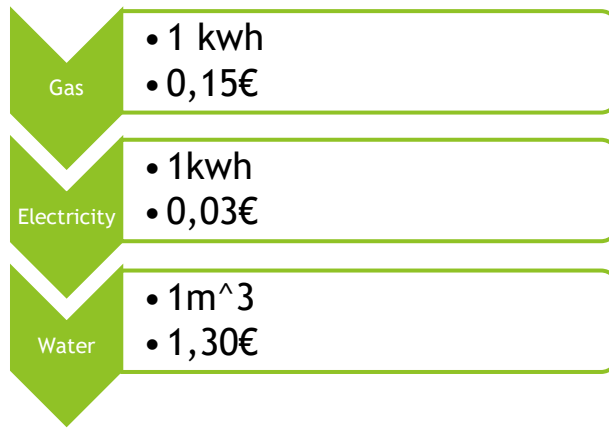
Efficiency: **76%**

Heat load: **45 degrees Celsius~**

Working pressure: **150mbar**

Nominal electrical power: **90kW**

## Cost example:



**Return of Invest: 5,3 Jahre**

**Advantages of HHO Energy+:**

Safe	Not expensive	Modular
Decentral	Low pressure	Normal temperatures
Easy to use	Low maintenance	ON/OFF in seconds