

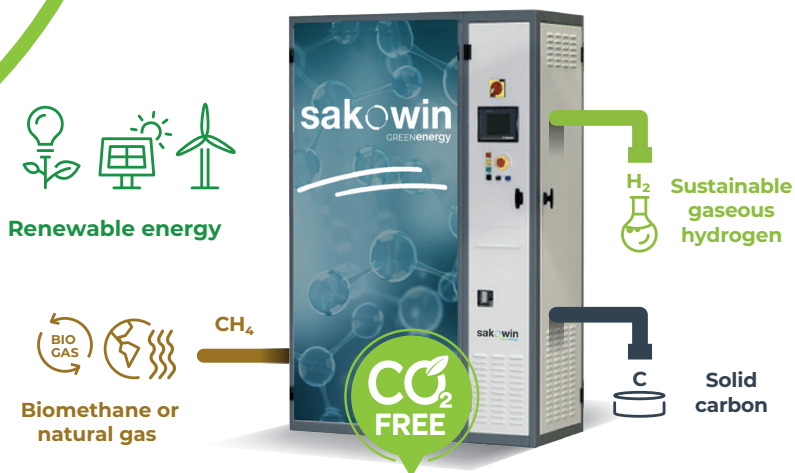
# HYDROGEN IS THE FUTURE OF ENERGY

Imagine a world where the combustion of hydrocarbons would no longer be the main source of energy... A world without CO<sub>2</sub> emissions from human activity...

**sakowin**  
GREENenergy

**innovates and offers a solution for the future:**

the next generation of sustainable hydrogen without CO<sub>2</sub> emissions at a competitive cost\*!



## OUR SOUTH BEACH SOLUTION

Sakowin's patented solution uses a mature and proven technology, microwave plasma, in a new field: the decomposition of methane into gaseous hydrogen and solid carbon.

- ▶ A **compact, modular** and **stackable** solution for on-site and on-demand hydrogen production, **without the need for storage or transport.**
- ▶ Can be installed at the **end of existing gas infrastructures.**
- ▶ A 100 kW Module can **produce several hundred kg of hydrogen per day without CO<sub>2</sub> emissions.**
- ▶ Applicable to bio methane or natural gas.
- ▶ **5 to 7 times less energy than an electrolyser.**
- ▶ **Production of two industrially valuable elements:** hydrogen and solid carbon.

**SUSTAINABLE  
HYDROGEN**  
POTENTIALLY  
**CHEAPER THAN**  
GREY HYDROGEN

## HOW DOES IT WORK ?

A CH<sub>4</sub> molecule requires less energy to be dissociated than a H<sub>2</sub>O molecule.

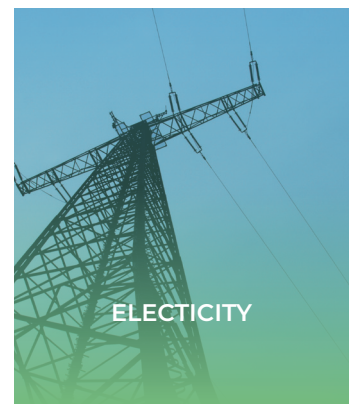
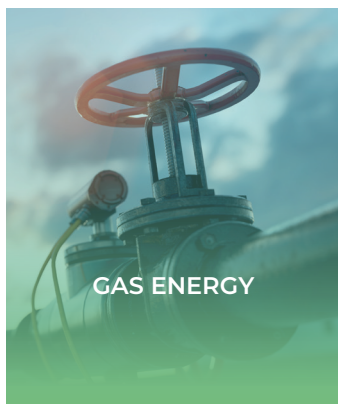
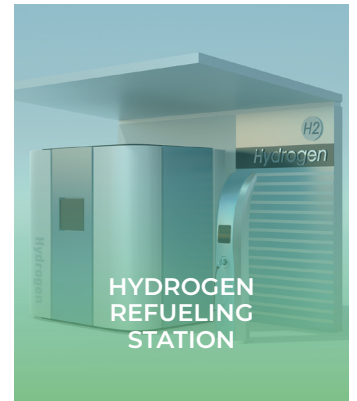
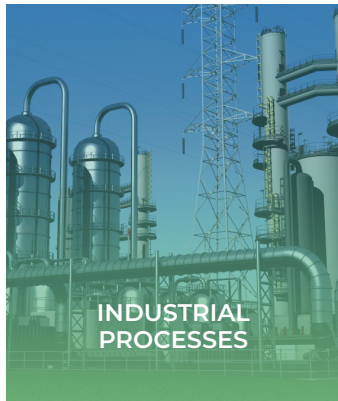
The decomposition of CH<sub>4</sub> without oxygen allows to produce hydrogen at a competitive cost from methane, and without CO<sub>2</sub> emissions. This is because it allows the production of gaseous hydrogen and solid carbon under energy conditions similar to those of steam reforming.

Associated with the use of bio-methane, it becomes a renewable and CO<sub>2</sub> negative energy solution.

\*The main disadvantage of green hydrogen production via water electrolysis is its high energy consumption and the need for large land areas.

## A VERY WIDE FIELD OF APPLICATION

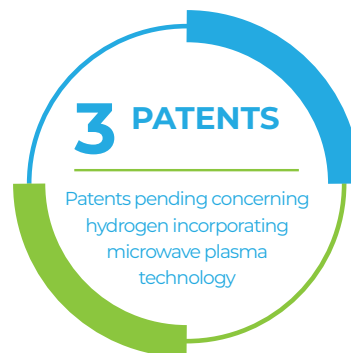
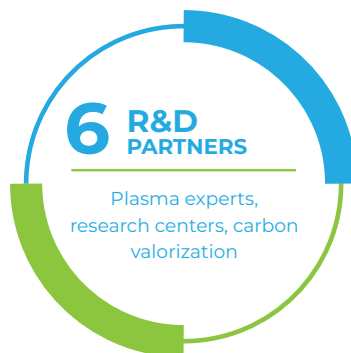
With sustainable hydrogen at a competitive cost we can address a wide range of markets and industries:



“ THE HYDROGEN MARKET IS ESTIMATED TO BE WORTH MORE THAN \$2.5 TRILLION IN 2050 AND THE CARBON MARKET IS ESTIMATED AT MORE THAN \$23 BILLION IN 2026 ”

The carbon market will evolve strongly with new uses, because if nature no longer recycles CO<sub>2</sub>, humanity will innovate to recycle carbon.

## WHO ARE WE?



We are initiating industrial partnerships to co-develop complete solutions integrating our technology.

To take part in the adventure of sustainable hydrogen without CO<sub>2</sub> emissions... **CONTACT US TODAY!**

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