



FOR PARTNERS

sakowin
GREENenergy

NEXT-GENERATION
OF COMPETITIVE SUSTAINABLE
HYDROGEN PRODUCTION

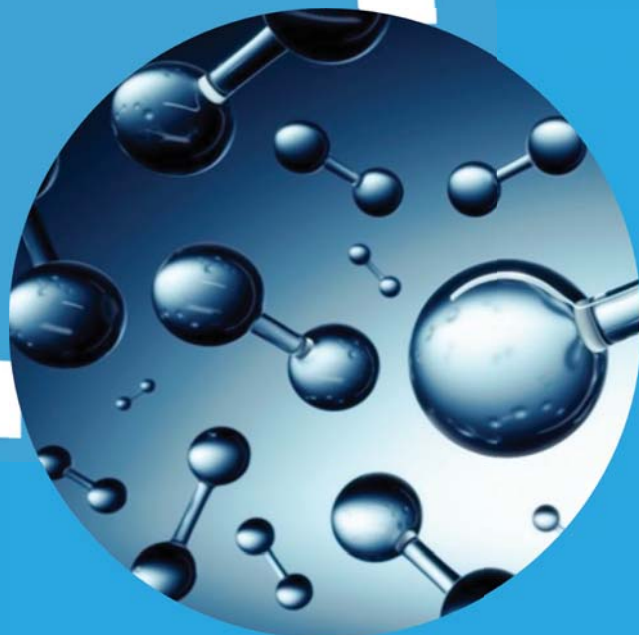


2021

36,4 BILLION
TONS OF CO₂

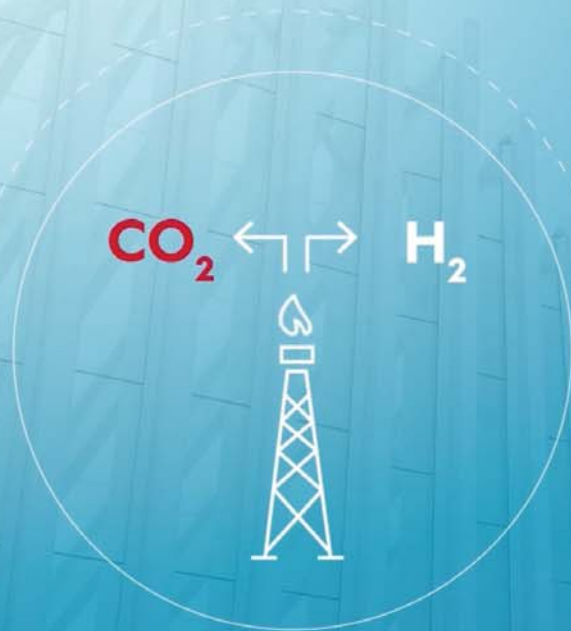
2050

10 BILLION
TONS OF H₂

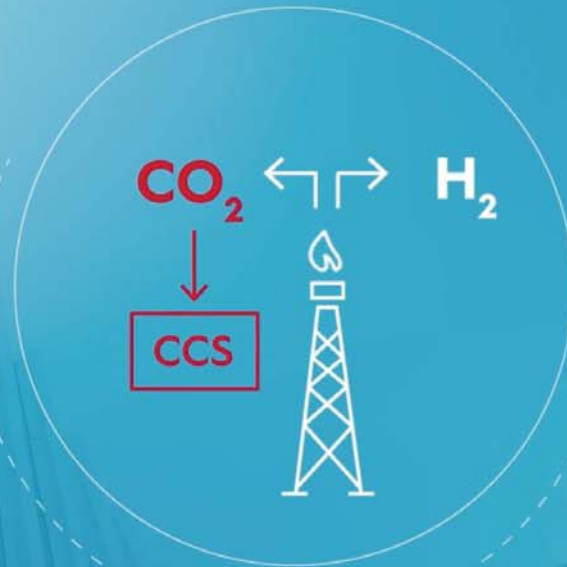


The ENERGY TRANSITION
will necessarily involve
HYDROGEN.

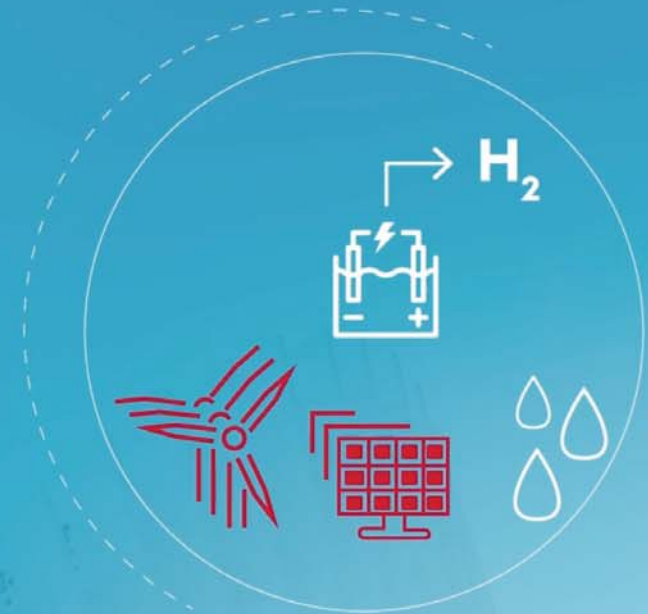
EXISTING SOLUTIONS ARE NOT ENOUGH!



Steam reforming



Steam reforming
with CCS

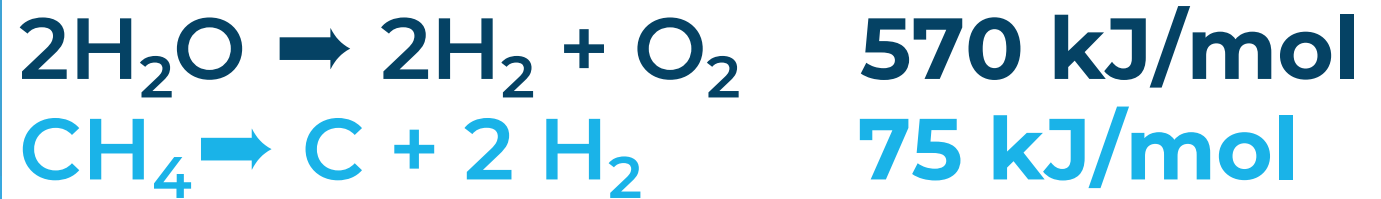


Electrolysis

WE NEED...

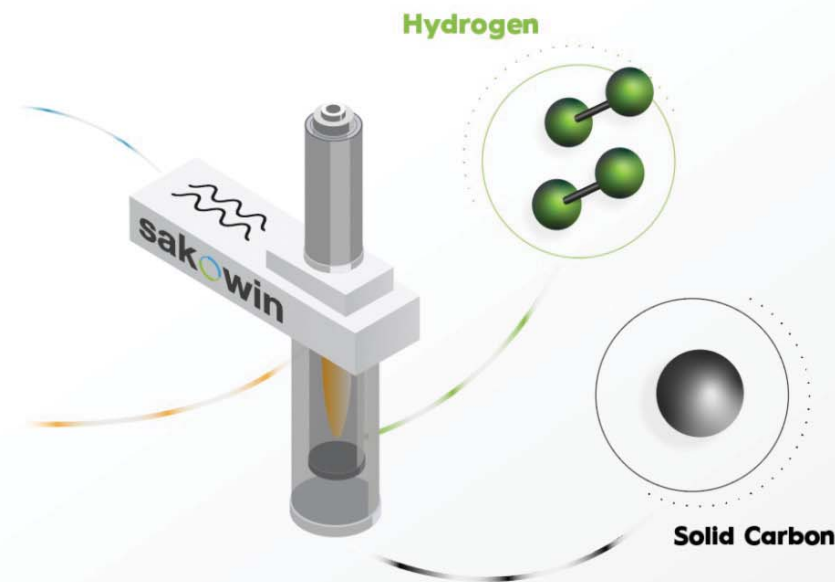
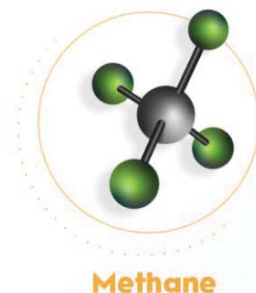
SUSTAINABLE
HYDROGEN
WITHOUT CO₂
COMPETITIVE COST





Methane needs 7 time less energy than water to produce the same amount of hydrogen.

METHANE PLASMALYSIS



ON-SITE
ON-DEMAND
PRODUCTION

CO₂ FREE PROCESS
5X LESS ENERGY THAN ELECTROLYSIS
HIGHLY EFFICIENT
COMPETITIVE COST
WITHOUT VALORIZATION OF CARBON



COMPACT, MODULAR AND STACKABLE
FOR ON-SITE HYDROGEN PRODUCTION
ON DEMAND



SAKOWIN SOLUTION



Renewable energy



Biomethane or
natural gas

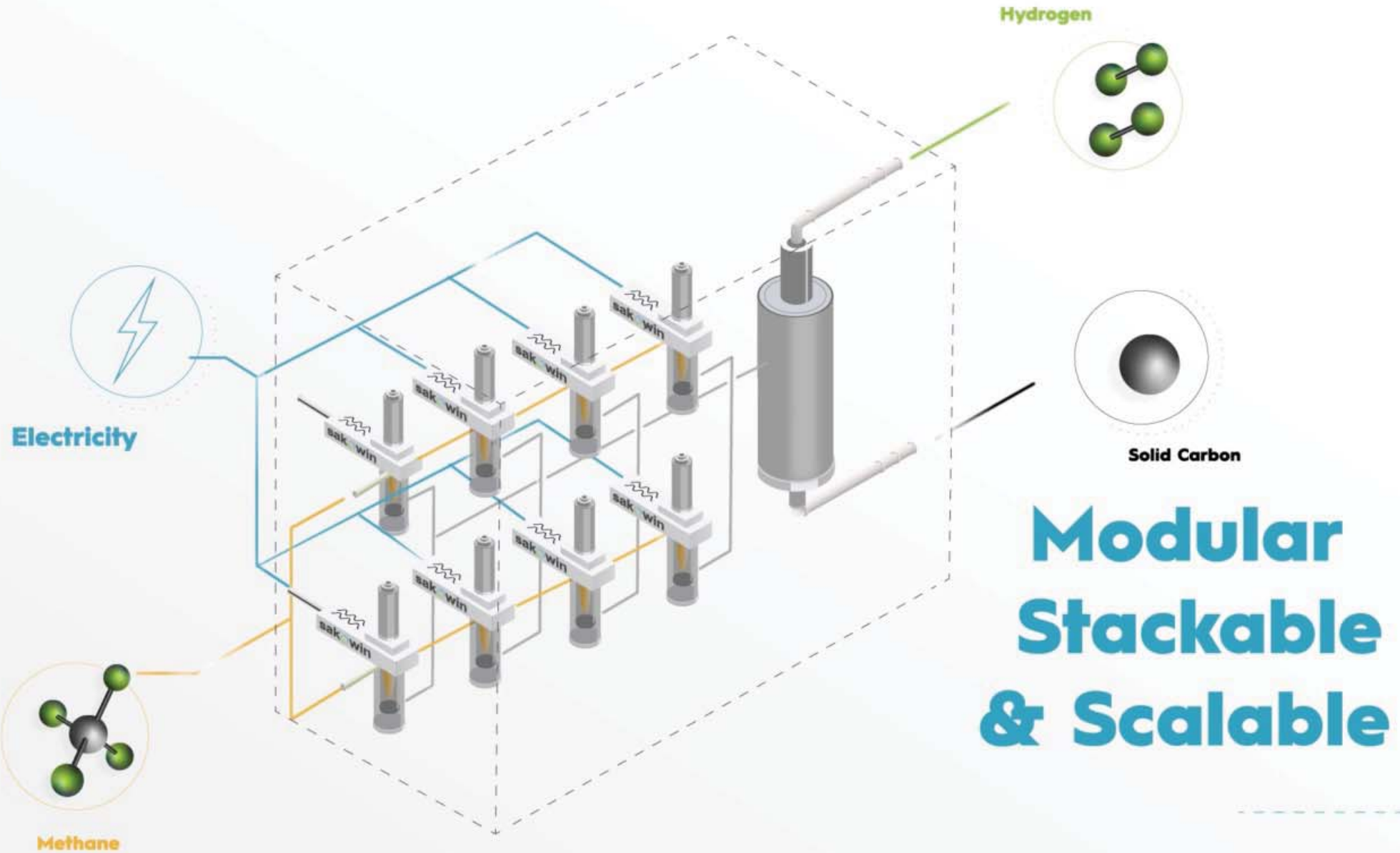
CH_4

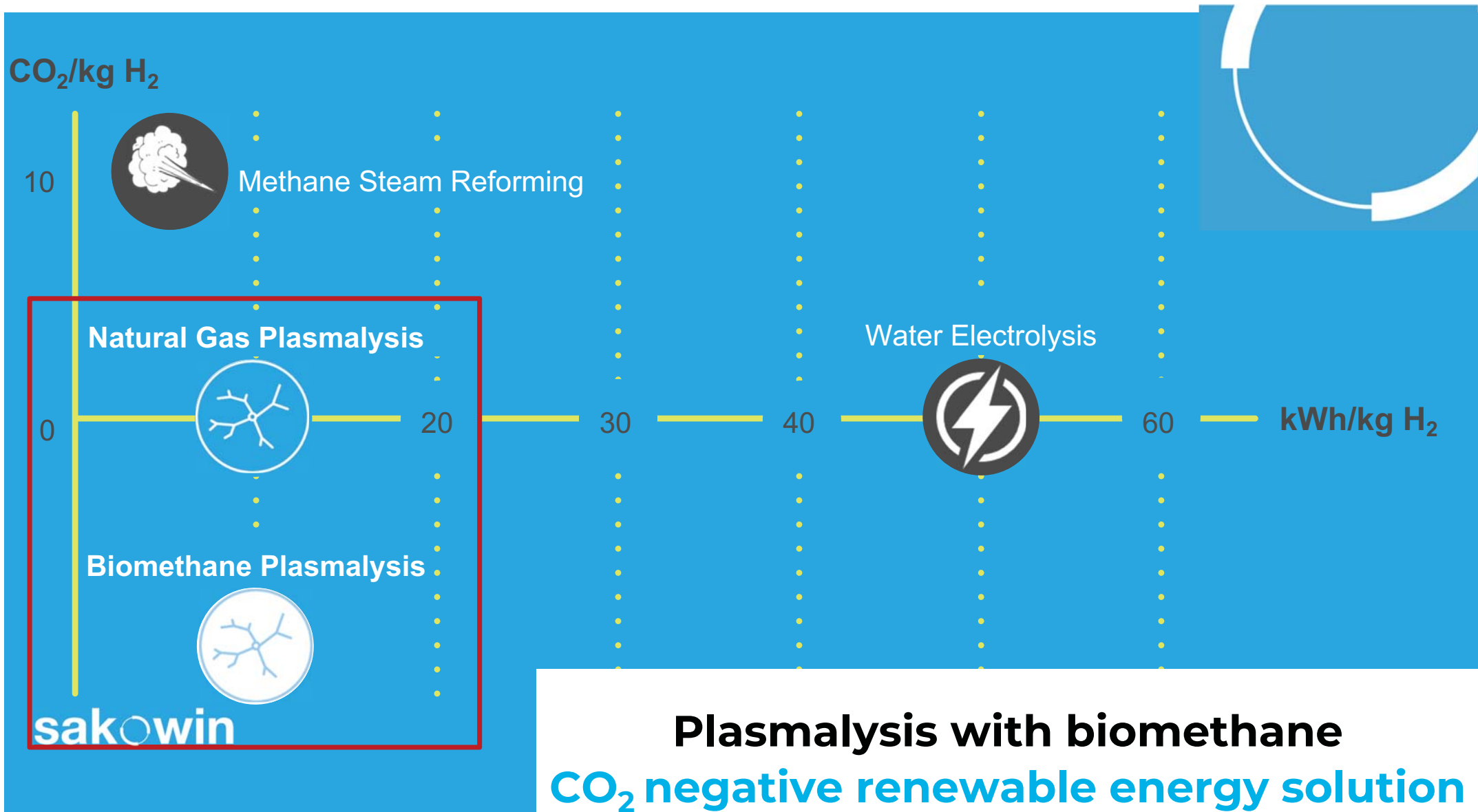


H_2 Sustainable
gaseous
hydrogen



C Solid
carbon







**\$2 500 BILLION
BY 2050**

WORLD HYDROGEN PRODUCTION
MARKET ESTIMATION



BUILDING MATERIALS



AGRICULTURE

OPPORTUNITY FOR
SAKOWIN
SOLID CARBON

**\$23 BILLION
BY 2026**

WORLD CARBON BLACK
MARKET ESTIMATION



1ST SIGNED PARTNERS



**CO₂-FREE INDUSTRIAL
PROCESS FOR
MATERIALS**



**H₂ REFUELING
STATION**



**CO₂-FREE OIL &
GAS EXTRACTION**



**H₂ REFUELING STATION
FOR FARMS & BIOMETHANE**

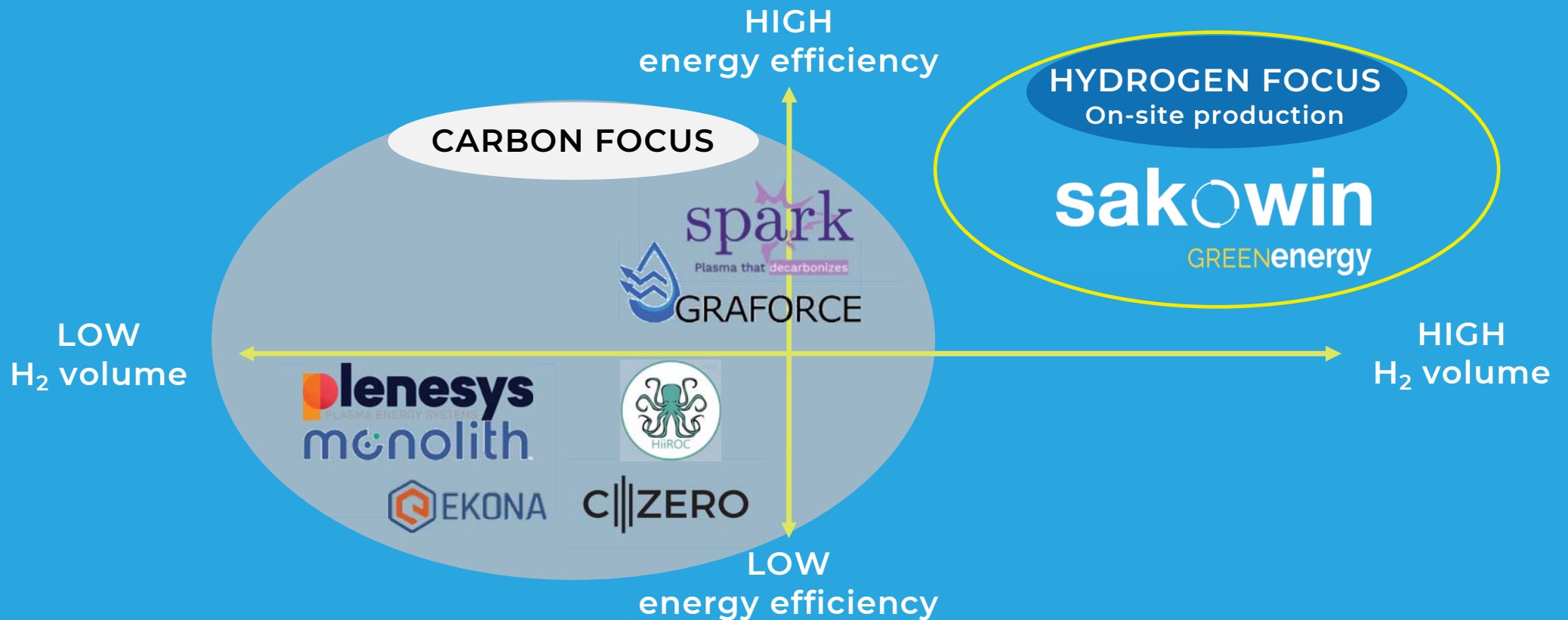


**H₂ REFUELING
STATION**



METHANE PYROLYSIS LANDSCAPE

Cost-competitive, CO₂-Free Hydrogen Production REGARDLESS of carbon value



INVESTMENT PLAN MILESTONE-BASED

4 M€ OVER 2 YEARS
to complete 1st Product and
be ready for launch



2021 - 1M€ indus.



03 - 2022



2.5 M€
Bpifrance

06 - 2022



6.5 M€
2.5M€ Grant +
4M€ Equity

2023 – 2024
4.0 M€ EQUITY OVER 2 YEARS
Matching 4.0 M€ from EIC Accelerator
Prototypes, Product @ TRL 9
Industrialization & Worldwide Sales

2026



Product Release
100 kW South
Beach Module

sakowin
GREENenergy

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Technology Optimization and Scale-Up

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2022

3kW Prototype

2023

6kW
Prototype

2024

100 kW
demonstrator
*Integration and
demos with OEMs*

2025

Product
Release
100 kW SB
Module
TRL 9

6kW POC - TRL5

Technical lock : Energy efficiency optimization

PLAMSA, PHYSICS, CHEMISTRY, ELECTRONICS, INDUSTRIALIZATION, FINANCE & BUSINESS DEVELOPMENT

CORE TEAM

250+ years of
cumulative experience

7 PhDs
6 engineers





A FUTURE WITHOUT CO₂

THANK YOU

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AWARDS



06/2021 - H2 Hub Airport Winner
05/2021 - Forum National Eco-entreprises (Energy award)
10/2021 - Energy for Smart Mobility Forum (Energy award)
11/2021 - Pollutec (special jury prize)
11/2021 - BlueInvest readiness
2021 - Award World Impact Summit
12/2021 - Gazelle Accelerator - Aerospace Valley - EIT Manufacturing (finalist, 2nd)
03/2022 - Réseau Entreprendre member
03/2022 - BPI - DeepTech label
03/2022 - World Material Forum (finalist)
05/2022 - EIC Accelerator

MEMBER OF



FINANCIAL SUPPORT

