



**SOUTH BEACH
MODULE**

Innovative proprietary low-energy CO₂ free methane decomposition process, for the production of gaseous hydrogen and solid carbon

Industrialize and market compact, modular and stackable units for **low-cost, CO₂ free production of hydrogen**

- South Beach Module 2 kW (30 kg H₂ / day)
- South Beach Module 6 kW (90 kg H₂ / day)
- South Beach Module 80 kW (1,200 kg H₂ / day)

Increase tenfold the energy capacity of **renewable energies**

" A formidable lever for accelerating the energy transition to reach the objective of zero CO₂ emissions by 2050. "



BENEFITS

+ **Highly competitive cost** : Potential to reach ≤ 1 €/kg H₂ at the place of consumption, thanks to its low energy need, its low CAPEX and the valorization of the solid carbon* resulting from this process. Possibility of a green hydrogen cost lower than that of a grey hydrogen.

+ **Accelerates the energy transition** : no CO₂ or greenhouse gas emissions, increase tenfold the production of green hydrogen by renewable energies on the same land surface.

+ **On-site production as close as possible to consumption** : compact, modular and stackable solution that can be installed on an existing natural gas supply. Does not require storage or transport of hydrogen.

+ **Numerous accessible customers** : producers / distributors of gas and electricity, decarbonation of industrial processes, heating of buildings, land, rail, sea, air and military transport...

*market value of solid carbon between 1 € and 3 € / kg

COMPLEMENTARY EXPERTISE

+ **G. Gatt**, founder with 30 years of international experience in startup development.

+ **Y. George**, Business Development.

+ **G. Trimboli**, Engineer Technical Design.

+ **PhD A. Martin Ortega**, R&D Engineer Laboratory Prototyping, physics and plasma expertise.

+ **High level CTO** (in recruitment) PhD. in physics, engineer with 30 years of experience in R&D and innovation. Expert in alternative energy solutions.

Exclusive co-development agreement with several experts and research centers in chemistry, physics and plasma for the development of Sakowin's intellectual property around this innovative process.

VALIDATED FEASIBILITY

+ **20 years of expertise** on the process developed: patents, pilots, publications in related fields.

+ **1st prototype installed** on a test bench at Sakowin's laboratory in the SOUTH region to ensure the developments necessary for industrialization.

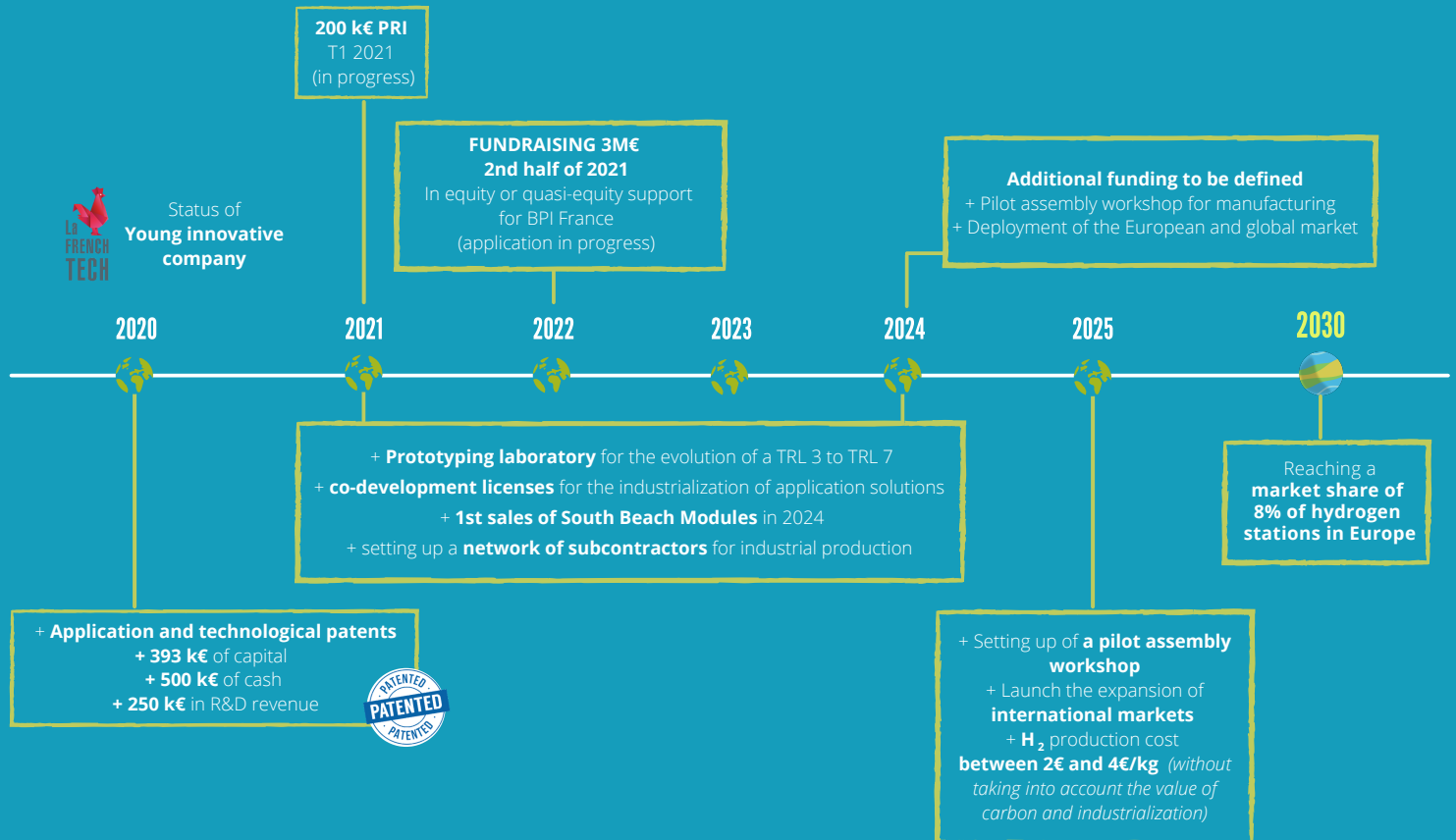
MARKET ACCESS

+ **1st targeted application** : Hydrogen Recharging Station for land, sea, air or rail mobility.

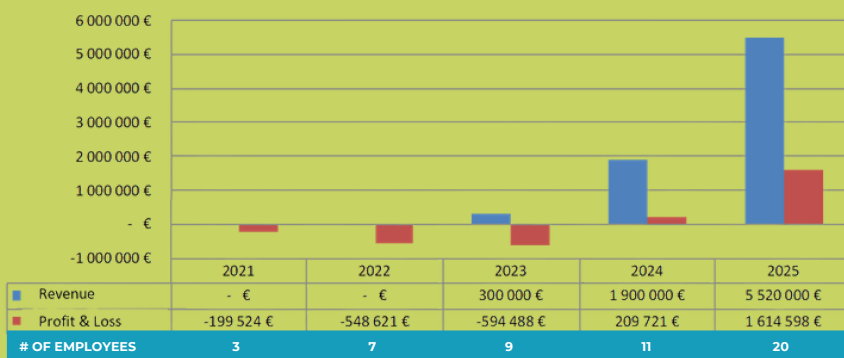
+ **Advanced and positive discussions** with first industrial co-development / licensing partners.



FUNDING NEEDS & MILESTONES



KEY FIGURES



P&L +

2024

NO DIRECT COMPETITION

GM 76%

2025

INDUSTRIAL AND COMPETITIVE H₂ SECTOR DEVELOPMENT

REV. 75 M€

2030

THEY SUPPORT & HELP US

