

# EU Brokerage Event

## on Industrial KET\* in Horizon Europe

\*Key Enabling Technologies

10th November 2022 • Strasbourg

Conference &  
Bilateral/B2B Meetings

Calls  
2023- 2024

**Project idea/ Field of expertise:**

Carbon-neutral Hydrogen production

**Organisation Name:**

SAKOWIN Green Energy

**Addressed topic(s):**

SAKOWIN is a deep tech start-up based in France which has developed a disruptive technology to produce sustainable carbon-neutral or carbon-negative hydrogen and solid carbon from bio-methane or natural gas by using low-energy microwave plasma

# SAKOWIN Green Energy

- Start-up created in 2017; in 2022 a team of ~15, incl. 6 post-doc researchers & engineers in Chemistry & Plasma Physics
- Technology: we crack bio-methane / natural gas with microwave plasma to generate hydrogen and solid carbon
- The process is completely CO<sub>2</sub>-free and is cost-competitive, as it requires 5 times LESS energy than Electrolysis. TRL5 “Prototype”
- Our solution comes in compact modular stackable equipment units
- Capital raising: Sakowin raised €9M in 2022, inc. €2.5M BPI grant, €2.5M EIC grant and €4M EIC equity
- **Needs**. We are looking to form consortium with industry partners to demonstrate a wing-to-wing solution in actual environment
- My role: Capital raising through EU-funded projects

# Demonstrate a wing-to-wing solution to produce H<sub>2</sub> from waste bio-methane

- SAKOWIN can provide a lab-scale prototype (6kW microwave plasma) to produce hydrogen and solid carbon
- SAKOWIN is looking for industry partners who could test the prototype in actual operating environment and provide performance feedback in these business cases:
  - By providing input bio-methane, for ex. generated from waste
  - By implementing the prototype in existing industrial infrastructure to generate heat (ex: steel or glass manufacturing)
  - By implementing the prototype within a Hydrogen refueling station (ex: heavy-load trucks HRS)
  - By assessing the use of solid carbon in agriculture (ex: to improve water storage capacity in soils)

# Contact details

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<b>Contact person</b>	<b>G�rard GATT, Founder &amp; CEO</b>
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