

## SAKOWIN PARTNERS UP WITH THE SWISS ASSOCIATION FOR THE DECARBONIZATION OF INDUSTRY AS A TECHNOLOGY PROVIDER

**Aix-en-Provence, April 27 2023 – Sakowin announces its partnership with the Swiss Association for the Decarbonization of Industry (VzDI), sponsored by a consortium of 16 companies, the Canton of Zug and Empa, the Swiss Federal Laboratory for Materials Science and Technology. This membership follows Sakowin's selection as a provider of a cost competitive, on-demand decarbonized hydrogen production demonstrator and illustrates the ongoing commitment of a future-oriented deeptech company specialized in the production of decarbonized hydrogen by methane plasmalysis. An industrial demonstrator is scheduled to be installed on Zug Tech Cluster premises by the end of 2024 or early 2025.**

### **An ambitious group of actors working together to contribute to the energy transition**

The Swiss Association for the Decarbonization of Industry (VzDI) was founded in spring 2022 and brings together members committed to a common vision: promoting the establishment of a carbon-free industry. The association comprises representatives from industry, energy supply, finance, and research who play a critical role in supporting the energy transition. The main objective is to develop a comprehensive approach to reducing CO<sub>2</sub> emissions in industrial applications, with solutions that can be implemented quickly. The members all agree on the central role hydrogen must play, especially for the decarbonization of high-temperature processes, which are widely used in industrial applications.

The association's efforts to drive technological advancements in industrial decarbonization include plans to install a demonstrator in the Tech Cluster Zug in the coming years. In this large-scale project, methane (CH<sub>4</sub>) will be decomposed by pyrolysis into its hydrogen (H<sub>2</sub>) and solid carbon (C<sub>(s)</sub>) components, producing hydrogen without any CO<sub>2</sub> emissions and with significantly lower electricity consumption than electrolysis. Solid carbon, a co-product of this technology, is a new resource that shall be further developed for its use in construction and agriculture. This way of producing hydrogen is essential for the future as it can also be CO<sub>2</sub> negative when renewable synthetic methane or biomethane is used. Despite their potential to be a crucial component of the energy transition, hydrogen and solid carbon produced by methane pyrolysis is yet to be acknowledged as a key solution.

### **Sakowin, a new partner of the Association and the supplier of a hydrogen production demonstrator in Zug**

The association oversees the installation of a demonstrator in the Tech Cluster Zug and has taken steps to evaluate various methane pyrolysis technologies for their suitability and maturity for use in the project. Empa has been assigned with the task of conducting this evaluation to determine the most appropriate technology for the demonstrator. Numerous criteria were accounted for in the selection process: energy

efficiency, hydrogen purity, carbon purity, quantity of hydrogen produced, additional materials/secondary products from the process, etc.

Sakowin was selected as the supplier of the Zug hydrogen production demonstrator, illustrating the robustness and quality of its science-based technology and development. The compact, modular, and stackable technological brick being developed allows on-site, on-demand hydrogen production, providing an innovative solution to storage and transport issues. This partnership sends a message of cohesion, demonstrating the need to work together towards a successful energy transition. Sakowin is delighted with this new milestone in its industrial development and the confidence placed in its innovative solution.

## ABOUT SAKOWIN

Sakowin is an eco-conscious deeptech company founded in 2017 that produces decarbonized hydrogen through methane plasmalysis. Sakowin's equipment is compact, modular, and stackable. The system can be easily integrated into existing industrial and gas infrastructures, enabling on-site production on demand. Its capacity can be readily adjusted to accommodate various sectors and facilities. Sakowin has received the Deeptech label in March 2022 from Bpifrance and benefits from the support of the European Innovation Council. It already has seven industrial partnerships and is constantly developing its solution. Sakowin's team is committed to innovating for the energy transition and for the future of the industry.

For more information, please visit [www.sakowin.com](http://www.sakowin.com).

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