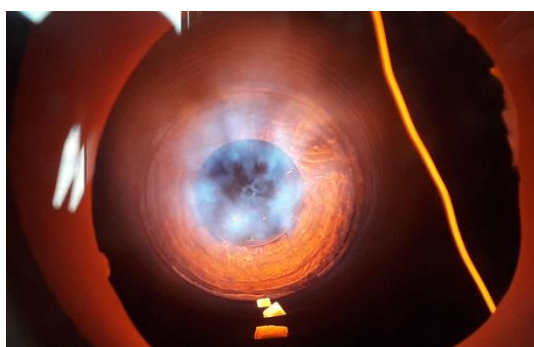




## Lhyfe and Fives offer a complete solution for decarbonising industrial combustion processes using green hydrogen

Nantes and Paris (France), 4 July 2024, 9:00 am– **Lhyfe (Euronext: LHYFE)**, one of the world's pioneers in the production of green and renewable hydrogen, and **Fives**, a world leader in industrial combustion, have announced the signing of a memorandum of understanding to provide a complete decarbonised offer for industry, from hydrogen production to combustion.

This offer speeds up energy transition by facilitating the use of hydrogen in process industries, without needing to modify all the equipment. Lhyfe will produce and supply green hydrogen and Fives will provide optimised and safe solutions for its use in industrial combustion processes.



*Picture: Hydrogen combustion*



*Picture: Fives and Lhyfe teams, at the Lhyfe Bessières site (Occitanie), for the signing of the MoU.*

In recent years, the combustion of hydrogen, which emits no CO<sub>2</sub>, has emerged as one of the most promising solutions for reducing the carbon footprint of industrial processes.

For example, a secondary aluminium furnace that today produces 120 tonnes per day using natural gas would tomorrow reduce its annual CO<sub>2</sub> emissions by more than 4,000 tonnes with the use of hydrogen\*.

**As recognised experts in their respective fields, Lhyfe and Fives will focus primarily on the metals, glass and cement industries and some selected industrial heating processes and applications in Europe and North America.**

**Lhyfe** is one of the world's pioneers in the production of green and renewable hydrogen. It produces green and renewable hydrogen through the electrolysis of water, at production units powered by renewable energy. The company's first site has already been operational since the second half of 2021, and two further sites were inaugurated in 2023. Several other sites are being built or extended across Europe.

**Fives** is the international leader in industrial engineering with more than 100 years of expertise in industrial combustion. The group has been a technological leader in hydrogen for over 50 years, developing cutting-edge technologies across the entire value chain. Under the ITAS, North American and Pillard® brands, Fives offers the widest range of hydrogen proven burners available on the market to serve all industries.

**Matthieu Guesné, Founder and CEO of Lhyfe:** *“We are in a pivotal period in the industrial sector and in particular in industrial combustion. After several years of development, hydrogen solutions are now mature and available on the market regionwide. We are proud and delighted to sign this agreement with a company such as Fives, which is helping to accelerate energy transition in the glass, cement and metals industries, thanks to turnkey solutions for their processes.”*

**Frédéric Thrum, Deputy General Manager of Fives and President of the Energy Division:** *“As a pioneer in decarbonisation, Fives supports industrial companies in their energy transition, in particular their switch to hydrogen. Our unique and innovative combustion systems are developed to reduce the environmental impact of our customers around the world. We are proud to be partnering with Lhyfe, to respond together to the urgency of climate change and make industrial processes more sustainable and efficient.”*

*\* Based on the assumption: 5t/hr furnace – 700 kWh/t – 6,000 hr/year, 210 g of CO<sub>2</sub> avoided per kWh*

**For an interview with the spokespersons, please contact the press department.**

[Click to access the Lhyfe Media Kit \(press releases and visuals\)](#)

#### **About Lhyfe**

Lhyfe is a European group devoted to energy transition, and a producer and supplier of green and renewable hydrogen. Its production sites and portfolio of projects seek to provide access to green and renewable hydrogen in industrial quantities, and enable the creation of a virtuous energy model capable of decarbonising entire sectors of industry and transport. In 2021, Lhyfe inaugurated the first industrial-scale green hydrogen production plant in the world to be interconnected with a wind farm. In 2022, it inaugurated the first offshore green hydrogen production pilot platform in the world. In 2023, it inaugurated two new sites, and currently has several sites under construction or expansion across Europe. Lhyfe is represented in 12 European countries and had 195 staff at the end of December 2023. The company is listed on the Euronext market in Paris (ISIN: FR0014009YQ1 – LHYFE). [Lhyfe.com](https://www.lhyfe.com)  
[Click to access the Lhyfe Media Kit \(press releases and visuals\)](#)

#### **About Fives**

Fives, your partner for a more efficient and sustainable industry  
From the first railway lines to the Eiffel Tower lifts and factory 4.0, for over 200 years Fives has been designing the disruptive solutions and technologies that make up industry. As a pioneer of decarbonisation and digitalisation, Fives is always one innovation ahead thanks to its ability to anticipate customer needs. By responding to the specificities of each market locally, Fives combines economic and environmental performance in 24 countries thanks to its 9,000 employees.  
More information: [www.fivesgroup.com](https://www.fivesgroup.com)

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