



## HYDROGEN, CORNERSTONE OF LOW-CARBON MOBILITY



### HRS, TOYOTA MOTOR EUROPE AND ENGIE REACH A KEY MILESTONE IN THE DEVELOPMENT OF A NEW GENERATION OF HYDROGEN REFUELING TECHNOLOGY

#### **Exclusive demonstration of Mid Flow Twin technology at Hyvolution Paris on the HRS stand on 27 January at 11h00**

Grenoble, 26 January 2026 - **HRS**, a French designer and manufacturer and European leader in hydrogen refueling stations, announces a **significant step forward** in its strategic partnership with Toyota Motor Europe and ENGIE Lab CRIGEN for the development of the new-generation Mid Flow Twin (MFT) hydrogen refueling technology.

Unveiled a year ago<sup>1</sup>, this innovative refueling system aims to **develop a dual-nozzle station to speed up hydrogen refueling times for heavy and light vehicles**. In collaboration with its partners, **HRS** is pleased to announce that **it has successfully integrated MFT components into a RHeadHy<sup>2</sup> refueling dispenser**, a major achievement that represents a key step towards the industrialisation of this innovative solution. The MFT system is set to be tested thanks to new generation components developed within the European RHeadHy project, which targets high flow rate (300 g/s at 700 bars) for heavy vehicles.

**The success achieved during this technology integration phase** now paves the way for the launch of a new campaign of component and integration qualification tests at the **HRS** test center in Champagnier (Isère) in order to continue the development programme.

On this occasion, **HRS** invites stakeholders in the hydrogen ecosystem, partners, customers and media to a **live demonstration of MFT technology, which will take place on 27 January at 11h00 at the HRS stand n° L08** at Paris Expo Porte de Versailles (Hall 1), in the presence of the project's stakeholders. This demonstration will follow a joint presentation by Toyota Motor Europe and **HRS** entitled 'Meeting AFIR for LDV and HDV in a cost-efficient way', which will take place from 10h00 to 10h30 on the 'workshop 2' stage.

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<sup>1</sup> [Read the press release from 28 January 2025](#)

<sup>2</sup> RHeadHy project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement HORIZON-JTI-CLEANH2-2022-1 No 101101443. The project is supported by the Clean Hydrogen Alliance and its members.



*Dispenser incorporating Mid Flow Twin technology  
at the HRS test site in Champagnier (France)*

## **A key technology for the future of hydrogen infrastructure**

As a reminder, Mid Flow Twin technology is based on an innovative twin-nozzle architecture that significantly reduces refueling times for both heavy and light vehicles, while optimising the installation and operating costs of hydrogen stations. It is a direct response to the challenges of increasing hydrogen use and the objectives of the European AFIR regulation.

After the testing phase, which will be carried out at the **HRS** test center, work will continue with a view to integrating the technology into international standards. This next step, expected in the summer of 2026, will be an essential condition to be met before industrial production can begin.

## **A strategic collaboration in the service of the energy transition**

This partnership between **HRS**, Toyota Motor Europe and ENGIE Lab CRIGEN illustrates the ability of industrial leaders to combine their expertise to accelerate the development of next generation hydrogen refueling solutions that are deployment ready high-performance, reliable and economically viable. It also confirms **HRS**'s central role as a pioneer in modular, scalable and high-performance hydrogen infrastructure.

With this new milestone, **HRS** reaffirms its commitment to staying ahead of the curve in terms of technology, actively contributing to the development of market standards and supporting large-scale decarbonisation of transport, both in Europe and internationally.

**Hassen Rachedi, founder and CEO of HRS**, said: "Mid Flow Twin technology is taking a key step towards industrialisation. By combining our expertise with Toyota Motor Europe and ENGIE Lab CRIGEN, we are transforming an ambitious innovation into a concrete industrial solution. This collective momentum paves the way for standardisation in the summer of 2026 and the creation of a new standard for hydrogen infrastructure. At HRS, we are convinced that shared innovation and long-

term partnerships will enable us to build efficient, competitive and sustainable hydrogen mobility in Europe."

## ABOUT HRS (HYDROGEN REFUELING SOLUTIONS)

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**HRS** is a **world leader in large-capacity hydrogen refueling stations**. **HRS** offers a complete and unique range of modular and scalable stations, from 200 kg/day to 4 tons/day.

Pure player from design to commissioning, **HRS** boasts state-of-the-art industrial production facilities capable of **assembling up to 180 stations a year**, with **lead times of 6 to 12 weeks**. This industrial site includes a **test area, the only one of its kind in Europe**, to test and trial the range of stations and develop future products and solutions for the hydrogen mobility market.

**HRS** has a hydrogen agnostic approach, allowing the use of any type of hydrogen (green, blue, grey, etc.). Our stations are compatible with all hydrogen production solutions and independent of manufacturers. This flexibility enables customers to choose the hydrogen supplier best suited to their needs in terms of cost, availability and carbon footprint.

**HRS** also **offers a comprehensive service package, including 24/7/365 on-call maintenance**. The performance of stations installed in Europe and around the world is monitored in real time from the **state-of-the-art control room**.

Today, **HRS** has one of the largest installed bases of high-capacity stations on the market, with **31 stations ranging from 300 kg to 1 ton/day, representing a cumulative capacity of over 6 tons/day**. All station terminals are bi-pressure and equipped with 350-bar, 350-HF and 700-bar nozzles, meeting all the needs of hydrogen mobility.

**HRS** stands out for its **rigorous economic discipline**, offering long-term financial solidity while continuing to allocate adequate resources to R&D, thus ensuring its position at the forefront of innovation.

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For further information, visit our website [www.hydrogen-refueling-solutions.com](http://www.hydrogen-refueling-solutions.com)



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