Press release

At the Enagás H_2 Technical Day, the industry showcases ongoing technological developments in the field of green hydrogen

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The event brought together leading experts to share updates on their renewable hydrogen technology projects, from pilot schemes to industrial deployment.

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Madrid, 10 June 2026. Today, Enagás held the third edition of its H_2 Technical Day, an event attended by national and international experts from the industrial, technological, and academic sectors involved in green hydrogen, the energy transition, and decarbonisation. The event served to present decarbonisation projects and technological developments using green hydrogen that are already underway in industry and the mobility sector.

The conference was opened by Arturo Gonzalo, Enagás' CEO, at the Enagás Corporate University headquarters in Madrid. He highlighted that this forum has established itself as "a benchmark for the exchange of knowledge and the acceleration of technological development in the sector", in collaboration with the Hydrogen Technology Observatory, "which already has 110 members after just two years of operation".

During his speech, Arturo Gonzalo emphasised that "we must harness technological development to boost competitiveness. Many technologies across the value chain have been proven, but we need to scale them up and keep moving forward. This is the key turning point for improving the competitiveness of hydrogen".

He also announced that "in the second half of the year, Enagás will launch Hyloop+, Europe's first calibration laboratory for industrial hydrogen meters using a primary standard, which will set the international benchmark".

Green hydrogen is moving towards industrial-scale deployment

Amalia Pizarro, Energy Technology Analyst at the International Energy Agency (IEA), presented the key findings from the "Energy Technology Perspectives" and "Energy and AI" reports. She also emphasised that hydrogen technology continues to advance and mature.

For his part, Antonio Chica, Coordinator of the Global Materials Area at CSIC (Spanish National Research Council), highlighted the importance of collaboration and a cross-disciplinary approach in driving these developments forward. He also discussed the work carried out on pilot projects aimed at achieving technological readiness levels (TRL) that would enable their transfer to industry.

This was followed by the first round-table discussion, entitled "The roll-out of green hydrogen in industry: technologies driving its deployment", featuring Gotzon Gómez, STEGRA's Director for Spain and Portugal; Manuel Breva, Secretary General of ANFFECC (National Association of Manufacturers of Frits, Glazes and Ceramic Colours); Olivia Infantes, Director of Regulation and Public Financing for Hydrogen, Derivatives and Clean Energy at Moeve; and María Jazmín Nieto, Head of Gas Turbine Sales and International Projects at Siemens Energy. The panel was chaired by Susana de Pablo, Enagás' Engineering, Technology and Digitalisation General Manager.

These experts highlighted the technological advances and ongoing projects aimed at rolling out green hydrogen as a renewable fuel and means of decarbonisation: Gotzon Gómez unveiled the world's first large-scale

steelworks powered by green hydrogen. The first phase of construction is due to be completed this year, and another international project is planned in Portugal. Meanwhile, María Jazmín Nieto presented the technological developments and scaling of her hydrogen turbines, which are designed for combined-cycle applications, as well as the adaptation of existing models.

During the round-table discussion, Susana de Pablo, Enagás' Engineering, Technology and Digitalisation General Manager, highlighted that "these advances demonstrate that the industry is taking firm steps towards adopting hydrogen as a key driver of decarbonisation and competitiveness".

During the update on the latest developments from the Hydrogen Technology Observatory, its Coordinator and Head of Innovation and Technology at Enagás, Igor Pagazaurtundua, noted that 2026 "has been a record year for technological advances in the hydrogen value chain", with the sector now reaching levels of technological maturity.

Hydrogen-powered transport

The second round table, entitled "Hydrogen-based mobility: key developments on land and at sea", featured contributions from Jens Fleckenstein, from Regulatory Strategy at Daimler Truck, who outlined the key characteristics of liquid hydrogen as a fuel solution; Ignacio García-Lorenzana, a member of the Clean Energy Partnership (CEP) Board and senior engineer at Hyundai, who highlighted how hydrogen refuelling stations are evolving to adapt to current market needs; Mauro Guercia, Corporate Business Development Manager at Symph2ony-Messer, who emphasised the need to overcome "the chicken-and-egg problem" to align vehicle adoption with the pace of hydrogen supply availability; and Victor Åkerlund, Senior Vice President of Analytics and Sustainability at PowerCell, who said that the decarbonisation of maritime transport is a shared effort and that, when adapted to the right vessel, "fuel cells can replace diesel today, enabling a drastic reduction in emissions".

The panel was chaired by Gonzalo Gutiérrez, Enagás' Head of Diversification, who stated that "we are currently in a situation where the transposition of the Third Energy Network Directive is already underway in Europe, with the most immediate developments being seen in the mobility sector".

Europe's first metrological facility for high-pressure hydrogen flow with a primary standard

Claudio Rodríguez, Director of Technical Services and Technology at Enagás, and Jaime Renedo, the company's Instrumentation and Measurement Manager, presented HyLoop+, a project that will establish Enagás' Metrology and Innovation Centre in Zaragoza as the European benchmark in hydrogen flow metrology. The centre will become operational this year. "This is a pioneering project that will meet the future needs of the Spanish hydrogen transmission network and accelerate the development of hydrogen metering technology. It will also contribute to the development of an ecosystem suited to the needs of the future European hydrogen transmission network," they emphasised.

HyLoop+ is Europe's first metrological facility for high-pressure hydrogen flow measurement using a primary standard - the most accurate reference system used in metrology for calibrating flow meters.

The HyLoop+ initiative complements Enagás' current metrological capabilities in the field of natural gas and biomethane, and highlights the public partnership based on its agreement with the Spanish Metrology Centre. Enagás' high-pressure gas meter calibration laboratory (LACAP) in Zaragoza is a partner laboratory of this centre.

Major innovation projects

Under the title "From innovation to the market: R&D projects and start-ups", progress was reported on projects by three organisations that are directly committed to accelerating the development and maturity of hydrogen technologies, making a decisive contribution to their deployment within the energy system.

Emilio Martínez, Enagás' Entrepreneurship and Open Innovation Manager, chaired this session after outlining Enagás Emprende's approach to the activity. Attendees included María García Camprubí, Head of the Fluid Dynamics for Energy and Climate Group at the Aragón Institute of Technology (ITA), who presented the "H2MAC, Hydrogen Fuel Cell Electric non-road mobile machinery" project for heavy machinery; Xavier Ribas, Founder and CEO of EVARM, who outlined the work of his start-up EVARM, which promotes sustainable mobility through the conversion and manufacture of hydrogen-powered vehicles for commercial fleets; and Raquel Sevilla, Kalfrisa's Head of Innovation, who spoke about the "HigH2-Furnaces" project for hydrogen-combustion industrial furnaces.

Natalia Latorre, Enagás' Energy Transition General Manager, brought the event to a close by emphasising that "the sector is successfully overcoming the technical challenges involved in turning projects into concrete realities that are already being implemented to decarbonise industry and transport".

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