HYTING cuts heating costs with hydrogen hybrid system in latest customer installation

- HYTING has successfully commissioned the second customer installation of its unique catalytic hydrogen air-heating system – this time deploying two units delivering a combined heat output of 80 kW (2 x 40 kW)
- The installation is located at a production facility in Markkleeberg, Germany, shared by engineering and manufacturing companies BURO GmbH and Südmetall Schließsysteme GmbH
- The system works in a hybrid configuration alongside a heat pump, with HYTING's technology covering the peak heating demand
- To enhance sustainability still further, BURO's subsidiary – H2 Green Planet – is planning to install an on-site electrolyser, which will enable the facility to produce its own green hydrogen to power the HYTING units
- This installation marks the latest step in HYTING's commercial roll-out, following the commissioning of its 10 kW unit at Flusys GmbH in Offenbach, Germany – a world-first
- Peak heating installations for commercial and industrial buildings are a key application for HYTING, saving customers costs from day one by reducing capacity and demand charges, as well as investment costs
- For further information please visit hyting.com

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26 March 2026 Wiesbaden, Germany – Hydrogen heating technology company HYTING has commissioned its second customer installation, deploying two air-heating units delivering a combined heat output of 80 kW (2 x 40 kW) at a production facility in Markkleeberg, in the German state of Saxony. This represents a significant step forward in the company's commercial rollout, with capacity eight times higher than in HYTING's first installation. It also marks the customer debut of HYTING's 50 kW heat generator platform, which features a 10:1 turndown ratio for continuous modulated heat output.

The facility in Markkleeberg is shared by two companies: BURO GmbH, which uses it to manufacture sheet-metal components on laser cutting and punching systems, and Südmetall Schließsysteme GmbH, which assembles electronic locking systems. Each of the two HYTING air-heating units serves one of these production areas, enabling tailored temperature distribution throughout the building.

The system operates in a hybrid configuration alongside a heat pump. The heat pump manages the base heating load, while HYTING's units cover peak demand during periods of high heat requirement or low ambient temperatures. This strategy significantly reduces grid connection capacity and demand charges – in this case by 70% – and enables smaller sizing of the heat pump, reducing both capital expenditure and operating costs, as the heat pump runs

continuously at its optimal operating point. Customers can reduce operating costs from day one and achieve a return on investment within approximately three years.

In the first phase of the installation, hydrogen is sourced from a nearby supplier. However, a further milestone is planned for later this year when BURO's subsidiary H2 Green Planet GmbH – which develops and manufactures electrolysers for the production of green hydrogen – intends to install an on-site electrolyser. This would make the site one of the first commercial buildings to generate and consume its own green hydrogen for heating, at a target production cost of €4-6/kg.

Tim Hannig, Founder and CEO of HYTING, said: “Our second installation marks a significant step up for us, in terms of scale and as proof-of-concept of what hydrogen air-heating can do for commercial and industrial buildings. At 80 kW, this is not only our most powerful installation so far, but it also demonstrates the effectiveness of our modular design by delivering that total heating capacity with two units. And with H2 Green Planet planning to bring on-site hydrogen production to the facility later this year, we are seeing the full picture coming together: clean heating, powered by locally produced green hydrogen, with a compelling business case from day one.”

“As a company with more than 50 years of engineering expertise, we know that the clean energy transition will only succeed if it’s affordable and cost-efficient. HYTING's technology shows that it’s already possible today by covering our peak heating demand without adding to our electricity load or our carbon footprint. And through H2 Green Planet, we are taking the next logical step: producing our own green hydrogen on site. This is what a practical, commercially-grounded approach to decarbonisation looks like,” said Jürgen Burger, CEO, BURO.

Market-ready technology

The Markkleeberg installation follows another milestone for HYTING, with its 50 kW heat generator receiving Gas Appliance Regulation (GAR) certification. GAR-certification is mandatory and must be issued by an independent accredited laboratory: HYTING once again chose Kiwa to perform the stringent evaluation and subsequent approval of its technology. Kiwa is one of the sector’s longest-established test houses, has a worldwide network of laboratories, and also performed the GAR-certification of the 10kW heat generator.

Additionally, HYTING has proven the exceptional reliability of its technology by successfully passing 2,500 hours of durability testing conducted by one of the world’s leading engineering service providers. The test simulated the thermal loading imposed by 10 years of normal operation, and was completed without any problems or failures, or any wear to safety-critical components. This ably demonstrates how effectively HYTING’s technology can supersede incumbent fossil fuel heating systems.

HYTING's technology is based on a proprietary flameless catalytic process in which hydrogen reacts with oxygen from ambient air to generate heat. There are no CO_2, NOx, or particulate emissions – the only by-product is water vapour. The technology does not use flammable concentrations of hydrogen at any operating point, making it inherently safe. Its compact, modular design means units can be combined to meet higher heating demands, and the technology is suitable for both new installations and retrofits.

Heating's sustainable future
The urgency of decarbonising commercial and industrial heating has never been greater. European Commission figures show that buildings account for 40% of all energy consumed in the EU and 36% of its greenhouse gas emissions[1], with heating accounting for a large proportion of that. Yet despite this, the EU Buildings Climate Tracker finds that the sector is more than 40% behind the pace of decarbonisation required to meet 2030 climate targets.[2] The EU's Hydrogen Strategy explicitly identifies heating in commercial and residential buildings as a key application for hydrogen infrastructure, and recognises that for many buildings, hydrogen offers a viable and complementary pathway alongside electrification to replace fossil fuels.[3]

The broader hydrogen market is growing rapidly, providing an encouraging backdrop for technologies such as HYTING's. The International Energy Agency's Global Hydrogen Review 2025 report shows that worldwide hydrogen demand reached almost 100 million tonnes in 2024 – and that low-emissions hydrogen production is set to increase more than fivefold by 2030 compared to 2024 levels, as committed projects come online.[4] As costs continue to fall and infrastructure develops, the expanding supply of blue and green hydrogen will make it increasingly accessible to commercial and industrial building operators – strengthening and supporting the wider rollout of HYTING's heating technology.

[1] European Commission: Energy Performance of Buildings Directive

[2] EU Buildings Climate Tracker (BPIE, 3rd edition)

[3] European Commission: EU Hydrogen Strategy

[4] International Energy Agency Report: Global Hydrogen Review 2025

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Notes to Editors:

HYTING has been selected for the SET100 List 2026 in recognition of the company's work in delivering carbon-free heat through catalytic hydrogen technology. The SET100 initiative, led by Start Up Energy Transition and supported by the German Energy Agency, showcases forward-looking technologies and emerging climate tech companies worldwide. The full SET100 trend report and the complete list of selected companies can be accessed here.

About HYTING:
HYTING is a heating technology company founded in 2021 and provides hydrogen-based heating solutions for buildings and industrial processes that are emission-free and economically viable. In peak-load heating for buildings, HYTING enables customers to reduce costs from day one. In industrial process heat up to 300°C, the company offers a CO_2- and NOx-free alternative to conventional technologies, helping to reduce Scope-1 emissions.

Decarbonising heating is a globally recognised challenge, and HYTING's technology can help to accelerate the transition from carbon-fuelled heating technologies to cleaner, more sustainable heating systems, and enabling net zero emissions by 2050.

HYTING has developed a proprietary catalytic heat generator (patents pending) in which hydrogen reacts flamelessly with oxygen from ambient air to produce heat. This process produces no harmful emissions: no CO_2, CO, NOx, VOCs, or particulate matter. The technology is designed for safe and efficient operation and forms the basis of HYTING's modular heating systems. It is used in air-heating applications (HVAC) for industrial, commercial and logistics buildings, as well as for process heat up to 300ºC and selected automotive applications. Units are currently available in 10 and 50 kW capacities, each featuring a 10:1 turndown ratio for continuously modulated heat output, and can be combined to meet higher heating demands. The company is scaling quickly to series production, with first customer installations commissioned and in operation as of Q1 2026. HYTING is based in Wiesbaden, Germany, and is run by a leadership team with decades of experience in the engineering sector.

About BURO GmbH:

BURO GmbH, based in Winden near Freiburg, is a long-established German engineering and manufacturing company with more than 50 years of experience. The company develops and produces high-quality mechatronic components and systems – from the initial concept and design to prototyping through to series production and support throughout the entire product lifecycle. Its core areas of expertise include measurement technology, automated manufacturing systems, and laboratory automation.

H2greenPlanet GmbH, a subsidiary of BURO GmbH, develops and manufactures innovative electrolyzers and hydrogen technologies for sustainable energy supply. The company focuses on tailored solutions for private, commercial, and industrial applications, enabling renewable energy to be converted into – and stored as – green hydrogen. In doing so, H2greenPlanet is advancing the energy transition and the adoption of CO_2-free energy systems while further expanding technological expertise in the hydrogen industry.

Media contact HYTING:
Influence Associates
Aileen Lekschat
Mobil: +44 794 989 7430
media@hyting.com