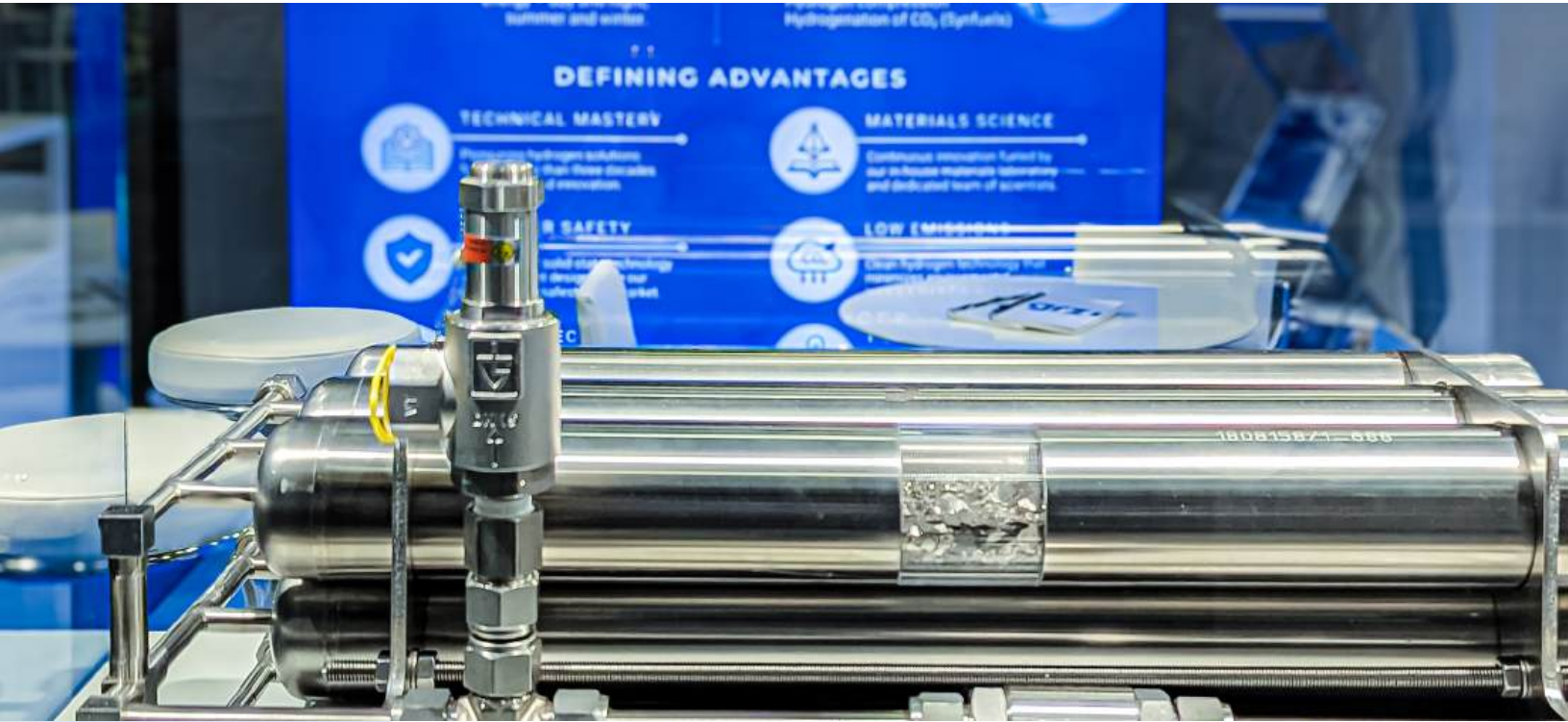


FEBRUARY 2025

NEWSLETTER



As we embark on a new year, we are excited to share the latest developments at GRZ Technologies.

We're proud to have been accepted into the Swiss Technology Fund, reinforcing our commitment to advancing safe and efficient hydrogen solutions. Meanwhile, our DASH storage systems continue to evolve based on valuable feedback we received from partners and customers. At Hyvolution Paris, we introduced the HyCo, our patented thermochemical hydrogen compressor powered by heat. On the operational front, our HyCo HRS with Auto AG was inaugurated in Rothenburg, Switzerland, enabling efficient, sustainable on-site truck refueling.

We're also expanding our network with new partnerships, welcoming DragoNergy and GhenPower SA to our growing ecosystem of hydrogen innovators. In parallel, GRZ was featured in an SATW discussion paper, highlighting the role of metal hydrides in secure hydrogen storage. Finally, in this issue, we spotlight a key member of our team – Tai Sun.



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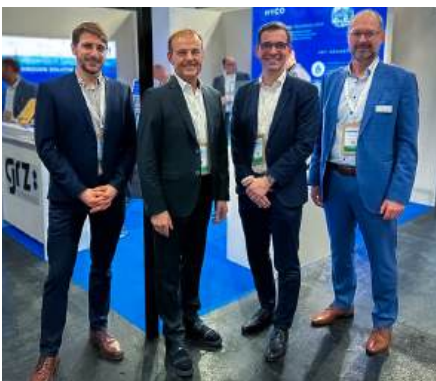
As always, we appreciate your continued support and collaboration. The hydrogen industry continues to evolve, bringing both opportunities and challenges, and we remain committed to driving innovation, expanding our partnerships, and delivering cutting-edge solutions that foster a safe and sustainable energy landscape.

Noris Gallandat
CEO, GRZ Technologies SA

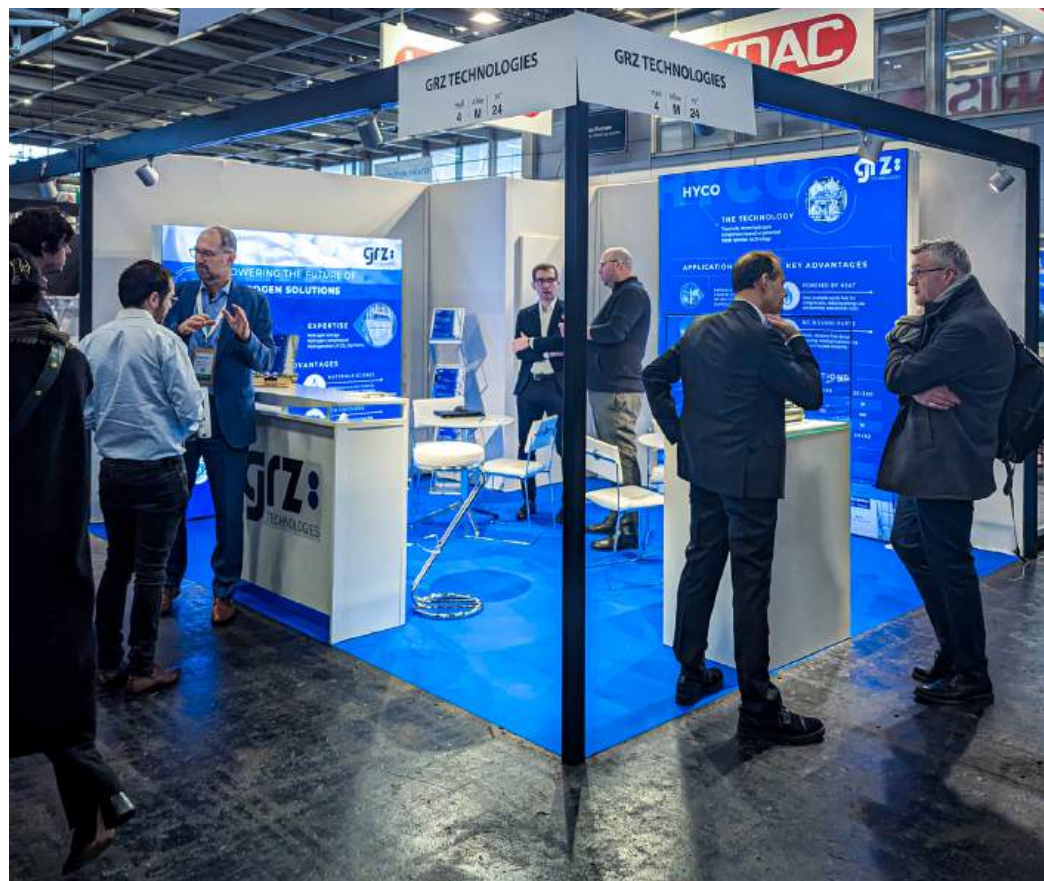


NEWS FROM HYVOLUTION PARIS 2025

We have just returned from Hyvolution Paris which took place end of January. With over 11,000 visitors, 500+ exhibitors, and 300 industry speakers, the event provided a dynamic platform for collaboration and innovation in hydrogen technology.



Alexandre Damourette, Henrik Steen Pedersen and Noris Gallandat (GRZ Technologies) with Guido Eckenwalder (fischer group)



GRZ was proud to take part, with CEO [Noris Gallandat](#), CCO [Henrik Steen Pedersen](#), and Sales Engineer [Alexandre Damourette](#) representing our team. We were also joined by [Guido Eckenwalder](#) from fischer group, a valued GRZ partner. Across three days, we engaged with industry leaders, strengthened partnerships, and explored emerging trends shaping the future of hydrogen solutions.

One of the key moments of the event was the launch of [HyCo](#), our groundbreaking metal hydride hydrogen compressor. Designed for efficiency and reliability, HyCo harnesses waste heat as an energy source, significantly lowering electricity consumption and operational costs. Its solid-state design eliminates moving parts, ensuring minimal maintenance and maximum longevity. Silent and vibration-free, it is an optimal choice for both urban and industrial applications. More details on its specifications and deployment will follow soon.

We appreciate everyone who took the time to meet with us at Hyvolution and look forward to continuing these conversations in the months ahead.



HYCO HRS

AUTO AG TRUCK DEPLOYS THE HYCO HRS IN ROTHENBURG, SWITZERLAND

[Auto AG Truck](#), a valued partner and shareholder of GRZ Technologies, has established itself as a leader in sustainable mobility, specializing in the maintenance of hydrogen vehicles. The installed [HyCo HRS](#), developed by GRZ, enables the refueling of hydrogen vehicles directly in the workshop – with locally renewable H₂.

Unlike conventional refueling stations reliant on high-pressure storage, GRZ's HyCo HRS uses metal hydrides to store and dispense hydrogen safely and efficiently. This eliminates the need for bulky high-pressure tanks, thus enhancing safety and delivering high-purity hydrogen in a compact, space-saving system.

ON-SITE HYDROGEN PRODUCTION FOR INCREASED EFFICIENCY

Auto AG generates green hydrogen locally through solar energy, creating a self-sufficient system that reduces both costs and emissions by eliminating the need for external hydrogen supply and transportation.

The HyCo HRS developed by GRZ enables the safe, efficient, and compact handling of hydrogen. This integrated system enables local storage, compression, and refueling, effectively reducing the levelized cost of hydrogen.



THE EVOLUTION OF DASH STORAGE

ELEVATING HYDROGEN SOLUTIONS

Late last year, we introduced the next generation of [GRZ's DASH storage solutions](#), marking an exciting step forward in our technology. More than just an upgrade, this evolution reflects a strategic shift toward a more customer-centric approach – focusing not only on how our storage solutions work but also on how they are used. Whether for industrial backup power, renewable energy integration, or on-site hydrogen storage, DASH solutions are now even better equipped to meet the diverse and growing demands of the energy landscape.

The DASH evolution centers around standardizing products, expanding storage capacities, and introducing new, practical applications that enhance the value of our solutions. We've also added key features, detailed technical specifications, and case studies to help demonstrate the true power of DASH technology in real-world settings.

All of these advancements are showcased through our enhanced marketing efforts, including updated product brochures, a refreshed website, and an extensive [LinkedIn series](#) from the past three months. We invite you to explore these resources to gain a deeper understanding of our product evolution and the positive impact they're already making.

As we continue to advance the field of hydrogen storage, we remain dedicated to supporting our partners and ensuring their success. Should you have any questions or feedback, we welcome your insights, as they help us refine our offerings and better serve your needs.

STRATEGIC SUPPORT FROM THE SWISS TECHNOLOGY FUND

GRZ has been officially accepted as a [portfolio company](#) within the Swiss Technology Fund. This recognition underscores the impact of our hydrogen innovations and the role we play in the transition to sustainable energy systems.

The Technology Fund provides loan guarantees to Swiss companies developing breakthrough technologies that contribute to a significant reduction in greenhouse gas emissions. This support allows us to continue investing in cutting-edge research, high-quality equipment, and top industry talent – ensuring we remain at the forefront of safe and efficient hydrogen solutions.



Technology Fund

GUARANTEES FOR INNOVATIVE CLIMATE PROTECTION

WELCOME TO OUR NEW PARTNERS, GHENPOWER AND DRAGONERGY

FURTHER EXPANDING OUR GLOBAL NETWORK OF PARTNERS

GRZ is committed to building a strong network of expert partners to drive the global transition to clean energy. As such, we are pleased to introduce two new partners who bring extensive expertise in hydrogen production, storage, and energy solutions.

"By combining DragoNergy's expertise in hydrogen storage and utilization with GRZ's cutting-edge energy storage solutions, we are not just building technology; we are building a bridge to a cleaner, more sustainable future."

Lior Shahar,
CEO of DragoNergy

DRAGONERGY



With over a decade of experience in hydrogen technologies, **DragoNergy** is a leader in planning, engineering, and operating hydrogen equipment. Their expertise in underwater maritime hydrogen storage using metal hydride technology aligns seamlessly with GRZ's advancements in energy storage.

Beyond storage solutions, DragoNergy is actively developing green hydrogen production sites in Portugal and Israel, furthering their mission to deploy clean energy at scale.



Lior Shahar,
CEO of DragoNergy

GHENPOWER SA



Based in Bellinzona, Switzerland, **GhenPower** is an innovative company that specializes in hydrogen-powered stationary and mobile energy systems. Founded in May 2023 as a spin-off of Premel SA – an established leader in backup energy solutions – GhenPower covers the full hydrogen value chain, from production to grid integration.

Their expertise includes electrolysis-based hydrogen production, advanced storage solutions, and fuel cell systems for industrial, commercial, residential, and transport applications. GhenPower has successfully implemented scalable energy projects across Europe, including a solar-integrated hydrogen system in Spain and a compact, plug-and-play energy solution in the UK.

Recognized for its innovation, the company won the PKB AddVenture Academy award in 2023, underscoring GhenPower's contribution to the energy production sector.



Pasqualino Pansardi,
CEO of GhenPower

Green hydrogen - a contribution to Switzerland's security of supply and decarbonisation

Energy and environment | Friday, 06. December 2024 | 08:00

SHAPING SWITZERLAND'S ENERGY FUTURE WITH GREEN HYDROGEN

GRZ was recently featured in a key discussion paper published by the Swiss Academy of Engineering Sciences (SATW) on Green Hydrogen and Switzerland's Energy Security. This comprehensive paper highlights the crucial role of hydrogen in achieving climate neutrality and securing a sustainable energy future for Switzerland.

The report, developed in collaboration with independent experts, explores the entire hydrogen value chain, from production to storage and utilization. GRZ's contributions are specifically highlighted in the field of metal hydride-based hydrogen storage and compression, underscoring the advantages of our technology in terms of safety, compactness, and efficiency.



One of the notable applications featured in the paper is our work with [Gruyère Energie SA](#), where our metal hydride storage technology enables safe and efficient hydrogen storage derived from hydropower-based electrolysis. Another example includes [Messer Schweiz AG](#), where our compression technology is actively used for hydrogen-powered forklift refueling operations.

To explore the full insights from SATW, you can access the discussion paper [here](#).

TAI SUN

HEAD OF MATERIAL SCIENCE

"I joined GRZ in 2021, during the COVID period, after Noris reached out to me. Before that, I was in China, working in an institute as a hydrogen storage researcher. When I arrived, GRZ was still in its early stages, operating out of a small office in Grolley. I was in charge of finding the best metal hydride for our commercial projects with very limited resources. Setting up a lab with basic test capability was the first challenge for me. Commercial testing devices were either too expensive or too slow, so we decided to develop our own. After two years of hard work, encountering numerous setbacks, and learning from failures, we now have a much more advanced, automated, and precise system – an essential milestone for our materials department.

"One of my key successes was making Ti-based alloy production economically viable. While others still produce this kind of alloy by using expensive equipment, we developed a new preparation method that allows us to manufacture it cost-effectively using traditional tools. This breakthrough means we can offer a hydrogen storage system that is not only more affordable, but also with better performance and durability.

"As GRZ grows, my role is evolving as well. I've moved from solo research to leading a team, and I'm shifting from pure research to a leadership role. This transition is a new challenge for me, as working in a company requires balancing technical innovation with market needs, supplier relationships, and cost considerations. It's a new chapter for me, and I'm excited to take it on."



Tai Sun,
Head of Material Science

