

JULY 2023

# NEWSLETTER

## DASH Hydrogen-to-Power Modules



We are now starting the first batch production of our DASH Hydrogen-to-Power Modules - designated for our clients in Germany. We are happy to go into this next phase of industrialization that was preceded by many months of engineering and system optimization. Our aim is to increase the speed and volume of the production, so that we are ready to fulfill more clients needs to integrate our solutions and decarbonize the world.

## Update from GRZ

Welcome to our latest newsletter! In this edition, we will cover the appointment of our new Chairman, Dr. Walter Steinmann, introduce you to our agents in the world, and provide an overview of our DASH Hydrogen-to-Power Modules including a presentation of one of our customers. Enjoy the lecture and have an excellent summer!

**New Chairman:** We are happy to welcome our new Chairman of the Board of Directors to the company and let him introduce himself: "I started my career in 1981 in the field of economic promotion for the Canton of Basel-Landschaft. Ever since, the support of start-ups was one of my favorite subjects at work. I was the founder of the first school for start-ups in the German speaking part of Switzerland. Together with colleagues from other Cantons, we started a national competition in 1988, the Swiss Technology Award. Until today, it remains one of the best known competitions for entrepreneurial thinking in Switzerland. So, I'm happy that at the end of my career, I will help to steer a technology-driven company like GRZ to continue its impressive growth trajectory.

The company is well positioned, since its solutions address two of the main challenges in the coming decade in the energy sector, storage and sector coupling. These topics have already accompanied me during my time as a Director of the Swiss Federal Office of Energy. I'm sure that GRZ has excellent products that contribute to solving them.



It will be a pleasure for me to promote the company's solutions and to work from a strategic perspective that the company will continue to grow and be successful. Our joint objective is to enter the global markets step by step."



**GRZ's agents:** Already today, GRZ has an international focus. Our global scope is only possible due to partnerships, such as the collaboration with a number of agents, who help us to be closer to our clients in international markets. Below, we present some of our agents. You are welcome to contact them directly to find out how they can help you in your hydrogen project.

Christian E. Wehrli was born in Basel, Switzerland. He has been living in Chile, Venezuela and now in the USA and Brazil, and is fluent in 5 languages. Christian has been an International Sales Director and consultant servicing multiple industries like harbor cranes, large electric rotation machinery, and submersible electric motors. During 2021, he joined the renewable industry sector to promote hydrogen-based and related products, motivated by the global green technology transition and alternative energy initiatives. He is an official agent of GRZ in North America, the Caribbean Islands, and in Brazil.



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Juan José del Campo was born in San Sebastián, Spain. By training he is a Mining Engineer; he holds a Ph.D. in Materials Science and Engineering Metallurgy. Juan is fluent in Spanish, French, and English. Over the years, he became scientist, technologist, manager, CEO, and consultant in metallurgical and renewable energy companies. He was also a Professor of Materials Science at the University of Oviedo. Since 2013, he is owner and managing director at CORDES, a consulting company specialised in electrometallurgy and renewable energies. Reputed in the North of Spain as a hydrogen technologies professor, he is also official agent of GRZ for Spain since 2022.

Ori Ravin was born in Israel and owns STS Ltd., the company offers a wide range of products and services to the Israeli industrial sector. STS has over 20 years of experience in the oil & gas, power generation, chemical, and general Industries. After short round with Li-Ion batteries, Ori discovered the hydrogen ecosystem and became convinced that this molecule is at the core of the energy system of the future. As for the Israeli market, Ori believes the main applications will be heavy transportation and the decarboniatzion of industrial processes. The list of companies which are now investing and developing in the hydrogen field has an undeniable correlation to the list of the companies facing the most severe environmental and sustainability challenges in Israel, hence, to STS's biggest clients. STS is the official agent of GRZ in Israel.



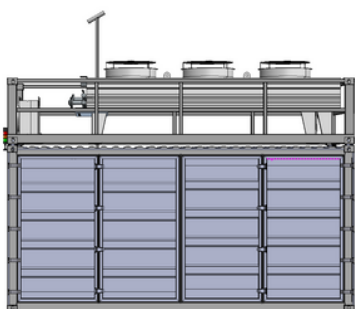
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**DASH Hydrogen-to-Power Modules:** Europe's largest connected solar park is currently built near Leipzig, Germany. There, GRZ and its partner MOVE ON Energy are also building the world's largest metal hydride-based electricity storage system. The system will store renewable energy generated from the sun in the multi-MWh range and convert it back into electricity when required. The DASH Hydrogen-to-Power system is characterized by the safe, compact, and compression-free type of hydrogen storage.

*"The potential for this technology is huge. It is a key technology for the further expansion of renewable energy supply,"* says Wolfgang Pielmaier from MOVE ON Energy.



*DASH Hydrogen-to-Power Module*

Our DASH Hydrogen-to-Power Modules are containerized and fully integrated systems combining GRZ's proprietary solid-state metal hydrides hydrogen storage, automotive-grade fuel cell systems from Hyundai Motor Company, and auxiliary components such as thermal management, batteries and control systems. They are a complete Plug & Play energy storage solution, ready to be deployed. It is possible to operate the modules remotely via the built-in IP interface and to integrate them into a SCADA system to allow for operation in the grid stabilization market.

The DASH Hydrogen-to-Power Modules are charged with hydrogen from any source and deliver on-demand electrical power for your application. Whether it is for efficient and affordable power generation, enhanced grid management, system services, or other applications, our technology will enable you to store large quantities of electrical energy in a safe, dense and effective manner, wherever you need it. We have five standard versions available ranging from 0.9 to 4.5 MWh usable electrical energy storage in single 20ft-ISO container. The electrical power released amounts to up to 0.5 MW instantly. Do not hesitate to contact us for a quote.



The global hydrogen market is growing exponentially – and so are we. Our team is expanding rapidly. Take a look at our current open positions on our [website](https://www.grz-technologies.com) and join our team to make an impact on the planet!