

Green energy storage companies

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GES new battery generation based on a hybrid hydrogen-liquid technology comes from the intersection of R&D, engineering, and product design, to overcome the state of the art of the existing storage systems. Based on proprietary patents, the hydrogen battery is a technology platform which enables the exploitation of a hybrid gas-liquid architecture to enlarge the range of solutions.

Building the storage of the future means preserving sustainability along the whole process: for this reason, we develop green chemistries based on abundant and no critical active materials that are easily accessible and characterized by low environmental impact. Besides, GES battery is designed on circular economy and recyclability principles to facilitate end of life management and material reuse.

Thanks to the peculiar technological features and the capability to work at room temperature, GES battery provides a high level of safety. Due to its non-corrosive and non-toxic chemistry, the battery doesn't require anti-corrosion materials.

GES stationary storage systems are characterized by the independence between the power and the energy module, offering the possibility to design battery storage solution adapted to the final application requirements. Besides, the modular structure of the systems permits to scale the entire system up to megawatt sized solutions.

With a forecasted number of cycles above 12.000 (15-20 years life cycle) and the use of accessible and easily disposable components, our storage system provides long life high performances and a competitive Levelized Cost of Storage (LCOS). Compared to traditional flow batteries, a single electrolyte is an advantage in terms of production cost (halved quantity of raw material).

Since 2015, we built a unique and effective know-how in the development of fully green innovative stationary storage systems.

Today, thanks to our research method and technology platform based on proprietary knowledge, we are acknowledged among the key players of Energy Storage, and we will strengthen our positioning through the IPCEI for the European Battery Innovation program grant.

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