

Hydrogen energy storage nicosia

Hystore Tech Limited is a privately own, Cyprus registered company established in March 2014. Hystore Tech Limited is housed together with Hystore Technologies Ltd and Hydrogen Filling Stations (H.S) Ltd in a 1080m² factory in the Ergates Industrial Area, 15 minutes form Nicosia city. It exhibits spacious office facilities, R& D laboratories and production spaces. The company collaborates/employs/ highly qualified technical and scientific personnel, with M.Sc./Ph.D in Engineering, Physics, Chemistry and other disciplines, who have international experience on Hydrogen Technologies and Renewable Energy Sources (RES)/Systems.

One of the activity of Hystore Tech Ltd is production and characterization of Metal Hydride Storage Units and Systems from 5 NlitersH₂ to 500000 NlitersH₂ or more. Hystore is one of only a few companies worldwide that is using Metal Hydrides for the design and construction of Metal Hydride Compressors (MHC). Hystore activities cover the whole spectrum of H₂ production, purification, storage and the use of H₂ in applications such as the "green" electricity production with H₂/Fuel Cells. Special emphasis is given in the "green" hydrogen production with the use of RES (Photovoltaics and Wind-turbines) and Recycle Materials.

Another activity of Hystore Tech Limited is Hydrogen Technologies and related applications, especially in the Transportation Sector and RES sector. Hystore Tech targets existing Internal Combustion Engine Vehicles (ICE)/Machines in order to improve their efficiency and reduce exhaust gases emissions related to CO, Unburned Hydrocarbons (UH) and NO_x. Hystore Tech researchers believe that, for such applications, the only solution for increased efficiencies is to introduce hydrogen into the engines in an efficient and effective way. This means on-board, on-demand hydrogen production via water electrolysis and smart hydrogen management. HHO Generator is the apparatus which can do the job, and Hystore Tech Limited has the know-how to do it in a scientific, optimal, robust and safe way.

Cyprus has the necessary know-how and conditions for the development of Renewable Energy Sources to contribute in the production of green hydrogen, experts said on Friday.

Speaking at an information day on Green Hydrogen in Cyprus held in Nicosia, experts noted that the island also has the geostrategic position for the import of hydrogen to Europe.

The government has set among its main priorities the reduction of electricity costs for households and businesses, while simultaneously strengthening the country's energy supply, Energy Minister George Papanastasiou said in his address at the event.

He added that the country is also aiming to contribute in Europe's efforts to diversify energy sources and routes.

"We are implementing policies to promote the use of RES and Energy Saving measures, the electrical interconnection of Cyprus with neighbouring countries and the arrival of natural gas in Cyprus", he noted.

Regarding hydrogen, Papanastasiou explained the European Hydrogen Strategy aims to produce up to 10 million metric tons of renewable hydrogen in the EU by 2030, while through the REPowerEU project this goal has been doubled and it is proposed to be achieved by facilitating imports, by 2030, of an additional 10 million metric tons of hydrogen.

Therefore, with the aim of developing the Cyprus National Strategy for Hydrogen, the energy minister prepared a relevant study, which presents various ways to introduce hydrogen in the energy mix of Cyprus.

"Specifically, it is being examined whether the production of green hydrogen, which is produced by the method of electrolysis of water from electricity coming from RES, could be a key to the further promotion of RES in Cyprus," he said.

He then explained how "green hydrogen can have a range of uses in industries such as, for example, cement production. It can also be used in the production of electricity, as well as a fuel in road transport, shipping and air transport."

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