

Power plant major bets on Liquid Organic Hydrogen Carrier (LOHC) – Covalion and Hydrogenious Technologies close cooperation

After the first successful collaboration on the "Smart Grid Solar" project in Arzberg, Bavaria, Covalion and Hydrogenious Technologies GmbH continue the joint work on hydrogen storage in Liquid Organic Hydrogen Carriers (LOHC). At the beginning of January 2019, the two entities have agreed on a closer cooperation to give the LOHC technology a broader foothold in the growing hydrogen market. As both partners are based within Erlangen, Bavaria, this collaboration will strengthen the city's role as the world's central industrial location for developments in the field of LOHC.

Both partners consider dibenzyltoluene, usually known in industry as a heat transfer oil, to be the most suitable hydrogen-carrier material. Hydrogenious' proprietary carrier oil has significant advantages in storage density, costs and most importantly, safety. Besides being hardly flammable and non-toxic, it is not classified as a dangerous good. As such, it eliminates the risks of conventional hydrogen storage. Furthermore, it can be transported at ambient conditions, making handling and transport easy within the existing infrastructure.

Hydrogenious Technologies is convinced that it has found a strong partner in Covalion, who will be able to actively contribute to the international expansion of the market for LOHC applications. "We are pleased that with Covalion a further player in the LOHC market has chosen dibenzyltoluene as its carrier of choice. The advantages of our technology enable hydrogen to be easily and safely used as the energy vector of the future," says Daniel Teichmann, CEO of Hydrogenious Technologies.

Thanks to its strong expertise, Covalion fosters the use of hydrogen in a future energy system. Covalion offers a range of hydrogen solutions to the market, including PEM electrolyzers, Hydrogen Refuelling Stations and LOHC-based solutions.

About Hydrogenious Technologies GmbH

Hydrogenious Technologies GmbH was established in 2013 as a spin-off of Friedrich-Alexander-Universität Erlangen-Nürnberg with the aim of marketing the LOHC technology. Thanks to investments from Anglo American Platinum and partnerships with the companies such as Framatome, Clariant, Sasol and MAN, Hydrogenious Technologies has a wealth of economic, strategic and financial resources at its disposal. The company, which is based in Erlangen, has 65 employees. Hydrogenious Technologies is a global pioneer in the field of hydrogen storage technologies based on liquid organic hydrogen carriers (LOHC) and builds plants for the hydrogen logistics industry and hydrogen refueling stations based on LOHC technology.

Hydrogenious Technologies is present at the Hannover Fair Hydrogen Fuel Cells Europe from April 1st to 5th at booth D49 in hall 27.

HANNOVER MESSE

APRIL 01-05, 2019



HYDROGEN FUEL CELLS EUROPE

Visit Hydrogenious Technologies
at Hall 27, Booth D49
Exhibition Grounds
Hannover, Germany

About Covalion

Covalion is a brand for storage technologies, renewable energies and industry services. Fresh ideas meet highly skilled experts, established industrial infrastructure and decades of international project experience. Covalion acts as system integrator for hydrogen and battery storage solutions, implements projects, supplies components and provides services. Covalion is a proprietary brand of Framatome, within the framework of its hydrogen related operations in Germany.

Framatome is owned by the EDF Group (75.5%), Mitsubishi Heavy Industries (MHI – 19.5%) and Assystem (5%).

Covalion is present at the Energy Storage Europe in Düsseldorf from March 12th to 14th at booth (C31) in hall 8b



and at the Hannover Fair Hydrogen Fuel Cells Europe from April 1st to 5th at booth (D62/1) in hall 27.

