



Press Release

Liberty Pier and AMBARtec cooperate on hydrogen storages for ships

Green hydrogen is increasingly discussed for ship propulsion. A special challenge is the storage of sufficient fuel capacities on board. The HyCS-technology of AMBARtec, Dresden opens up entirely new prospects. The storage is compact and requires little installation space compared with other systems. It is pressureless and can be easily arranged below deck. Compared with approaches to integrate H₂ in liquids such as ammonia, a significantly higher overall efficiency is achieved at rather moderate costs.

In order to provide this technology to ocean going vessels and inland waterway trades, AMBARtec and its consultant and maritime project developer Liberty Pier, Bremen signed a protocol of cooperation. The cooperation plans, among others, projects in the field of Blue Economy, particularly with a view to port management and logistics and for ocean going vessels and inland waterway trades. Both companies became involved in sustainable fuel solutions and are committed to the rapid change from conventional industrial standards to green alternatives.

About Liberty Pier

Liberty Pier Maritime Projects GmbH & Co. KG, Bremen is a maritime consultant developing worldwide projects.

Liberty Pier is a forerunner for innovative and sustainable shipping solutions. With our partner network we combine all competencies for the implementation of various technologies. Our staff members are highly motivated and have decades of experience in a wide range of shipping. Since 2011 we have successfully supported our clients in the areas of alternative fuels, digitalization, project development, asset management and chartering.

About AMBARtec

AMBARtec AG is a technology start-up company in the energy and hydrogen storage business, founded and located in Dresden since 2020. With a scientific and engineering background and years of research, we developed our own Hydrogen Compact Storage (HyCS®) technology based on the reduction and oxidation of iron. The technology is in the upscaling phase to a storage capacity of up to 600 kilogram of hydrogen. The technology is available for reference projects from year 2023 on.

We, as AMBARtec, want the green energy transition to become a success story. That's why we have developed a robust process for storing renewable energy – based on hydrogen. Our innovative HyCS® technology will pave the way for sustainable system integration of renewable power.

For our clients, we plan and develop solutions for compact and long-term energy storage for transport, decentralized regeneration with combined heat and power (CHP) and peak shaving, and for the future mobility.

www.liberty-pier.com www.ambartec.de