

Hydrogen-related activities at the Hereon Research Center

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Hereon is a multidisciplinary research center in which hydrogen storage and usage has been investigated for decades. The present topics are storage in metallic hydrides especially AB and AB₂ types), as well as their use in hydrogen compression. Further topics are tank design, system integration, FEM and system simulation and scale-up of storage system. The latest project in the latter was HyCARE, for which a 20-foot container was filled with ~ 4 tons of TiFe-based hydride coupled with a PCM for thermal management. The results of this project will be briefly presented.

