

Can you imagine to **transport more (clean) energy than ever** by Hydrogen-technology? – Yes we can!

Technologieplattform TransHyDE – **Leitprojekt** AppLHy! (joint research project)

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Einordnung in die H2-Strategie

Nationale Wasserstoffstrategie

Ideenwettbewerb „Wasserstoffrepublik Deutschland“ (BMBF)

H2Mare

H2Giga

TransHyDE

AppLHy!
Transport &
Anwendung LH2

AppLHy! – Basic data

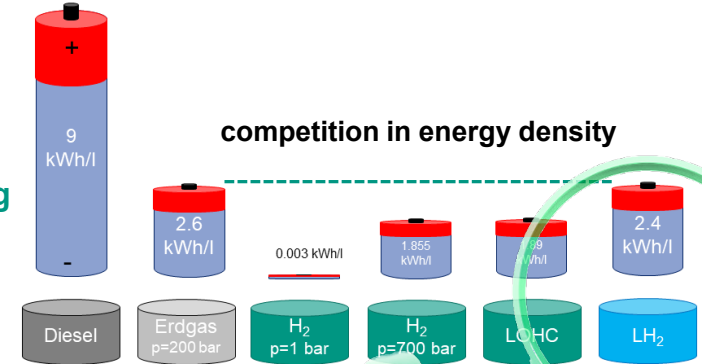
Solutions for transport & Application of Liquid Hydrogen:

- Energy efficient liquefaction, storage and transport for transport of **liquid hydrogen (LH₂)**
- **Hybrid energy transport**
(chemical: LH₂; electrical: high-temperature superconductors)
- Research and demonstration of **synergies of LH₂ in transport applications of electrical engineering** in collaboration with industrial partners
- First **Research Platform for „LH₂ in electrical engineering“** (and multi-modal interface to EnergyLab)
- **Safety and material aspects**

Basic data of AppLHy!:

- Duration: 01.04.2021-31.03.2025
- Industry: Amprion, Daimler, Linde, SciDre, THEVA, VESC (& others)
- Academia: KIT (ITEP, ITES, IAM-WK, ETI)
IFW Dresden, TU Dresden, TH Dresden
- Volume: >15 M€ (KIT: 11.8 M€)
- Lead: KIT ITEP
Michael Wolf, Tabea Arndt

Chemical Energy

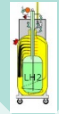
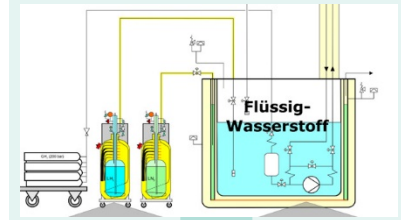
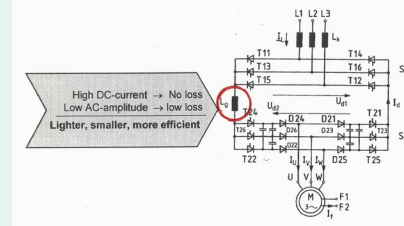
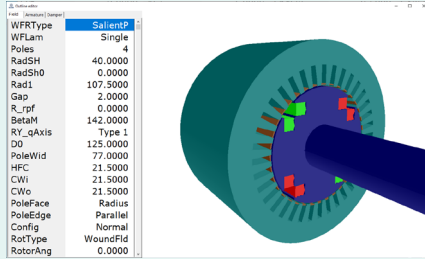
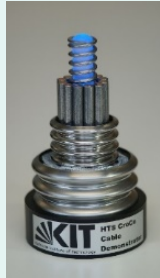


Electric Power

High energy density & purity!
How about cold...

ETIT, ITEP

E-technology & LH2



Thinking out of the box!
 From „pole position“ to „finish line“ ...