

CLOSED SORPTION THERMAL ENERGY STORAGE SYSTEM BASED ON SODIUM HYDROXIDE

M. Dudita, X. Daguene-Frick, L. Omlin, P. Gantenbein,
A. Häberle

ABSTOREX - Absorption Storage Experiment

Swiss Federal Office of Energy SFOE financed project

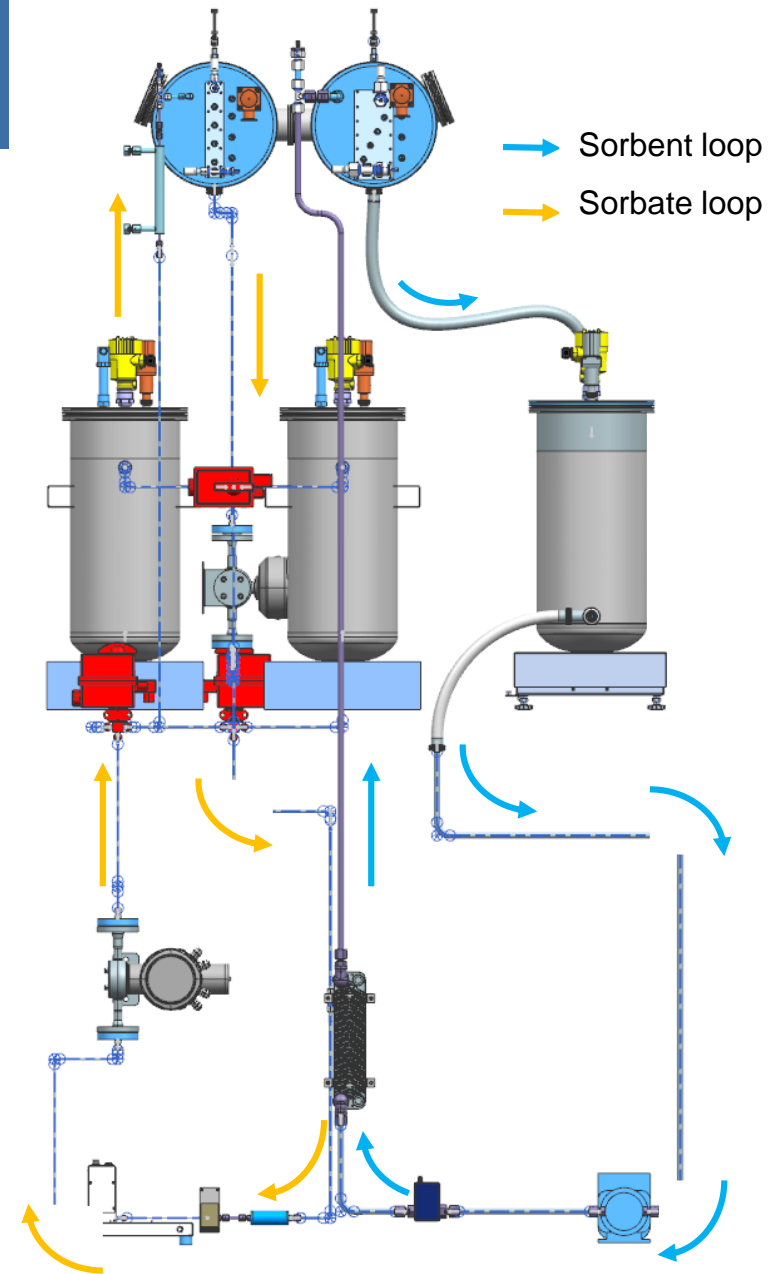
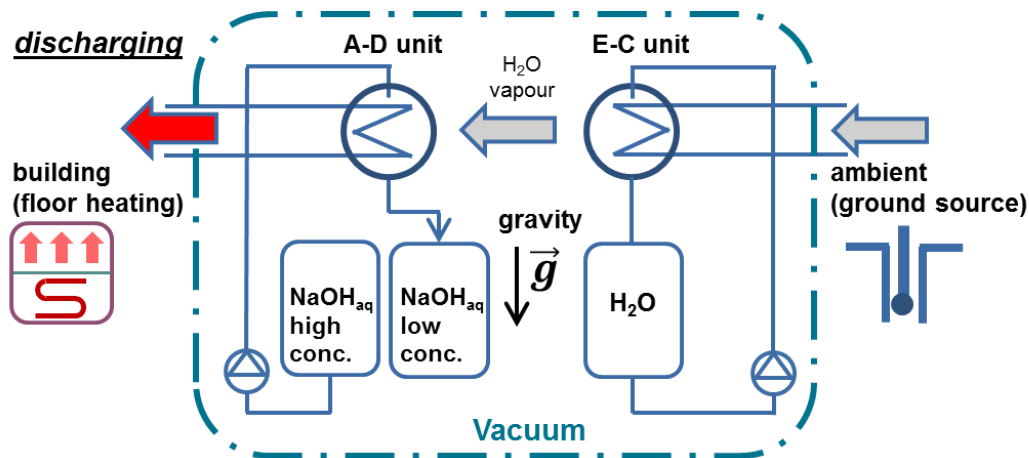
 **Storage**
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Concept & Design

■ Absorption Storage Experiment

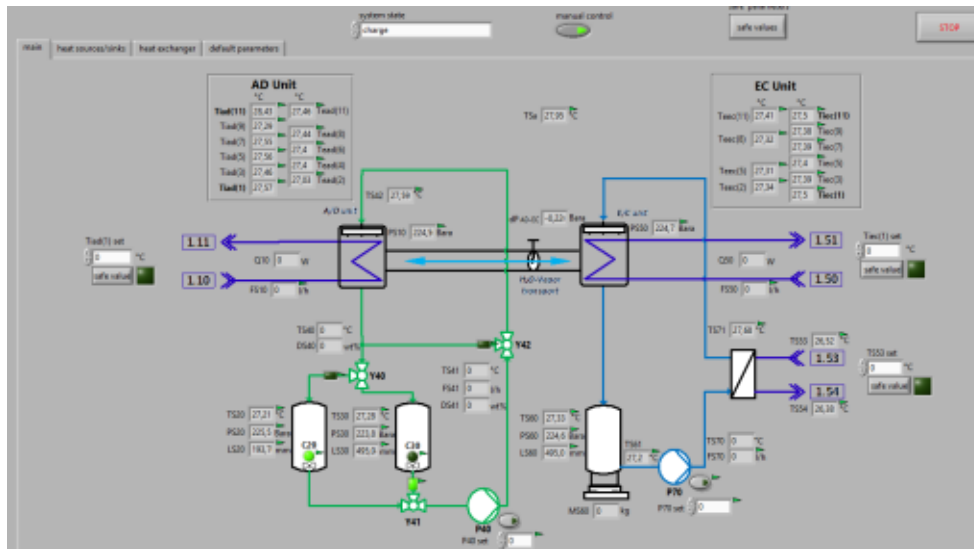
- Separation of power and capacity units
 - Power unit: combined A-D & E-C heat and mass exchangers
 - Capacity unit: storage tanks

- Seasonal charging and discharging processes

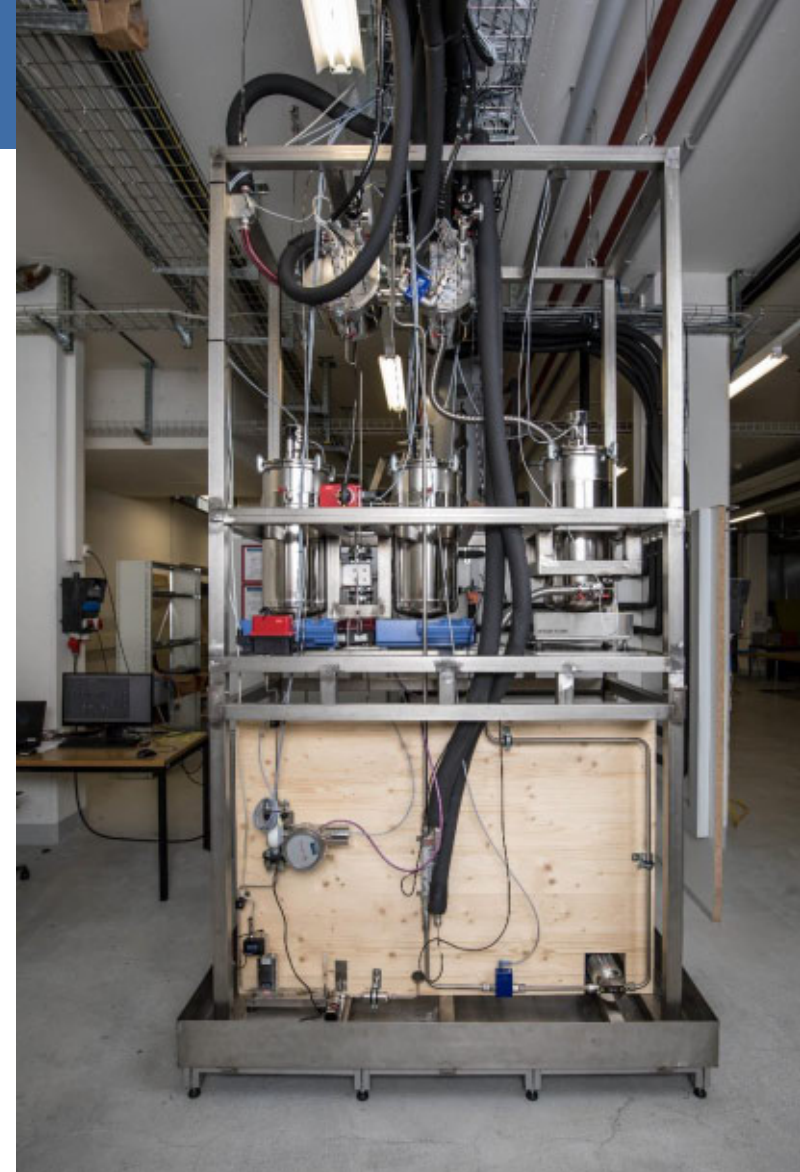


Manufacturing & Commissioning

- Next steps:
 - Finishing of the water commissioning process
 - Commissioning with NaOH-H₂O (validation of the concentration & density sensors)
 - Measurements on reference and optimised Absorber tube bundles (structured / SiC foam + surfactant)



Graphical User Interface (DAQ GUI) of the lab setup



View of the heat and mass transfer unit, tanks and measurement devices

Poster to see in the poster area number 4

Thank you for your attention!

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HSR

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