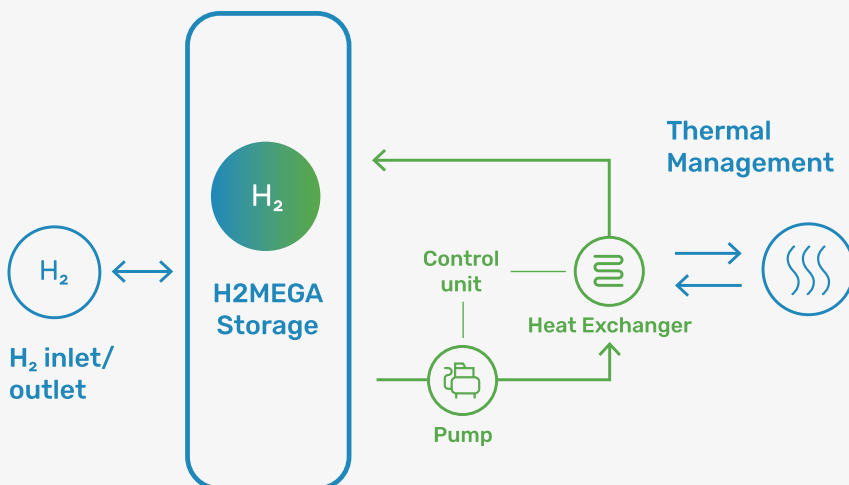


GREEN ENERGY STORAGE

HY2MEGA



Sketch displays a HY2MEGA tower with 1,000 kg H₂ storage capacity and including a smart cube for thermal management.



Hydrogen storage capacity / unit
up to 250 kg (units can be clustered / stacked)



Energy storage capacity / unit
> 8.3 MWh



Dimensions
Standard 20' ISO container



Transport weight
30,000 kg



Operating weight
35,000 kg (Cooling water approx. 3-5 tons)



Storage unit transportable by
Truck & train



H₂ loading/deloading mass flow
max. 105 kg H₂/hr. (standard conditions)



Pressure range
0.5 - 40bar(g)



Temperature range
Cooling: 5 - 25°C
Heating: 55 - 85°C



H₂ quality spec
5.0 - (99.999%)










Ad-/ Desorption energy
~4 kWh/ kg H₂

SPECIFICATION



GKN Hydrogen equipment package

-  **HY2MEGA Storage**
-  **Piping (IN/OUT/SAFETY)**
-  **Heat exchanger**
-  **Pump**
-  **Inertization with Argon/others**
-  **Control unit**
-  **Electrical installed load: < 10 kW**

Application areas



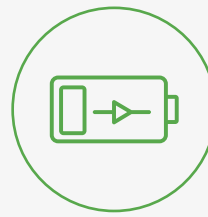
INDUSTRY



BACK-UP
POWER SUPPLY



MICRO GRIDS
& AUTARCHY



ENERGY BALANCING



ELECTRICAL
VEHICLE CHARGING



H₂ STORAGE

Unique advantages

100% recyclable

100% safe – Solid state hydrogen storage at max. 40 bar

Superior energy / space ratio vs. batteries or compressed gas storage

Storage life expectancy of 30 years

Energy storage capacity maintained over lifetime

No compressor needed

Requirements

- Concrete foundation (building authority)
- Definition of operational mode (off-grid, grid-parallel, back-up power)
- Certification authority request

