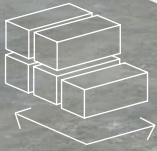
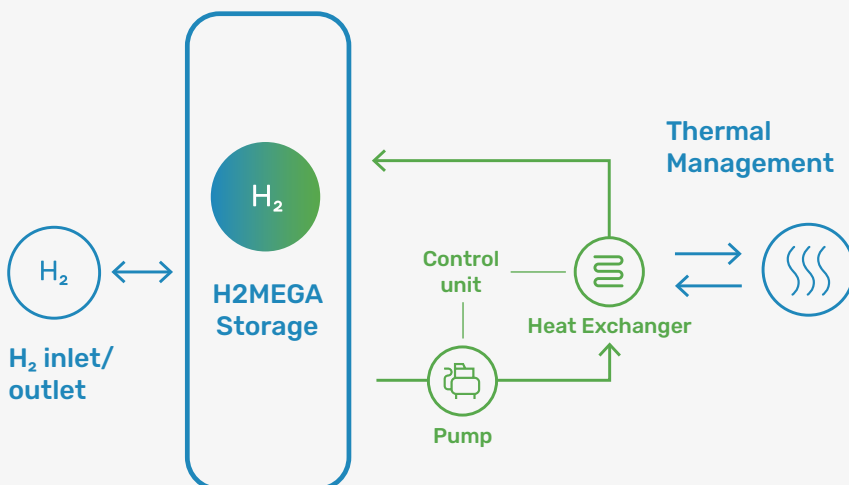


# GREEN ENERGY STORAGE

## HY2MEGA



Sketch displays a HY2MEGA tower with 1,000 kg H<sub>2</sub> 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**



H<sub>2</sub> loading/deloading mass flow  
**max. 105 kg H<sub>2</sub>/hr.** (standard conditions)



Pressure range  
**0.5 - 40bar(g)**



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



H<sub>2</sub> quality spec  
**5.0 - (99.999%)**










Ad- / Desorption energy  
**~4 kWh / kg H<sub>2</sub>**

# 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



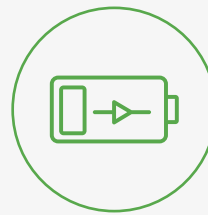
INDUSTRY



BACK-UP  
POWER SUPPLY



MICRO GRIDS  
& AUTARCHY



ENERGY BALANCING



ELECTRICAL  
VEHICLE CHARGING



H<sub>2</sub> 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

