

# GREEN ENERGY STORAGE

## Power-to-Power (P2P) - 20' Unit



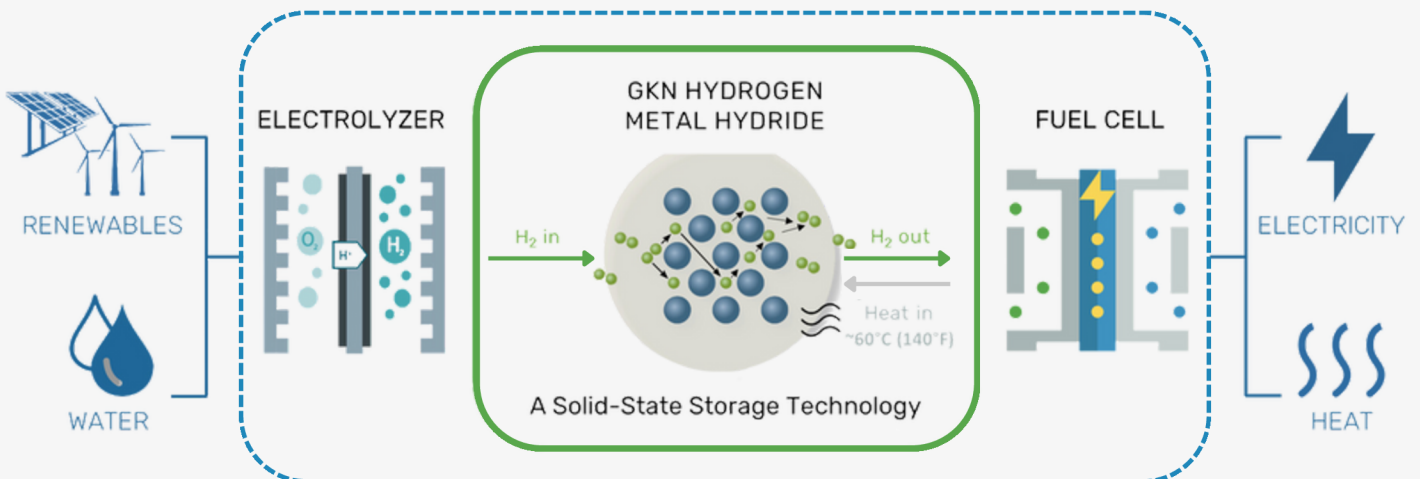
**Energy storage capacity**  
 30 - 120 kg hydrogen  
 (0.5 - 2 MWh electrical)

**Power**  
 7 - 14kW / 14-19kW  
 peak load (15 min every 12h)

**Electrical system**  
 1 - 3 Phase to local  
 requirement  
 EU 120V/230V/400V - 50 Hz  
 NA 120V/240V/480V - 60 Hz

20 foot containerized solution

**How to increase use of renewable energy?  
 Store as green hydrogen and reuse on-demand!**



# SPECIFICATION



Energy storage capacity

**0.5 - 2 MWh electrical**  
**30 - 120 kg H<sub>2</sub> @ max. 40 bar**



Nominal load

**7 - 14 kW**



Peak load

**14 / 19 kW**  
**(15 min every 12h)**



Output voltages

**EU 120V/230V/400V - 50 Hz**  
**NA 120V/240V/480V - 60 Hz**



Power during outage

**7 kW up to 285h**  
**14kW up to 142h**



Electrolyzer

**Up to 10 kg hydrogen per 24 h**



Dimensions / Weight

**6 m x 2.5 m x 2.6 m /**  
**13,000 - 20,000 kg**

## Application areas



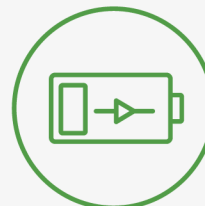
INDUSTRY



BACK-UP  
POWER SUPPLY



MICRO GRIDS  
& AUTARCHY



ENERGY BALANCING



ELECTRICAL  
VEHICLE CHARGING

## 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)
- Interface points (Input: PV, wind.../ Output: power line)
- Definition of operational mode (off-grid, grid-parallel, back-up power)
- Certification authority request

