

GREEN ENERGY STORAGE

HY2MEDI



Energy storage capacity

30 – 120 kg hydrogen
(0.5 – 2MWh electrical)



Power

7 – 14kw / 14 – 19kW
peak load (15 min every 12h)

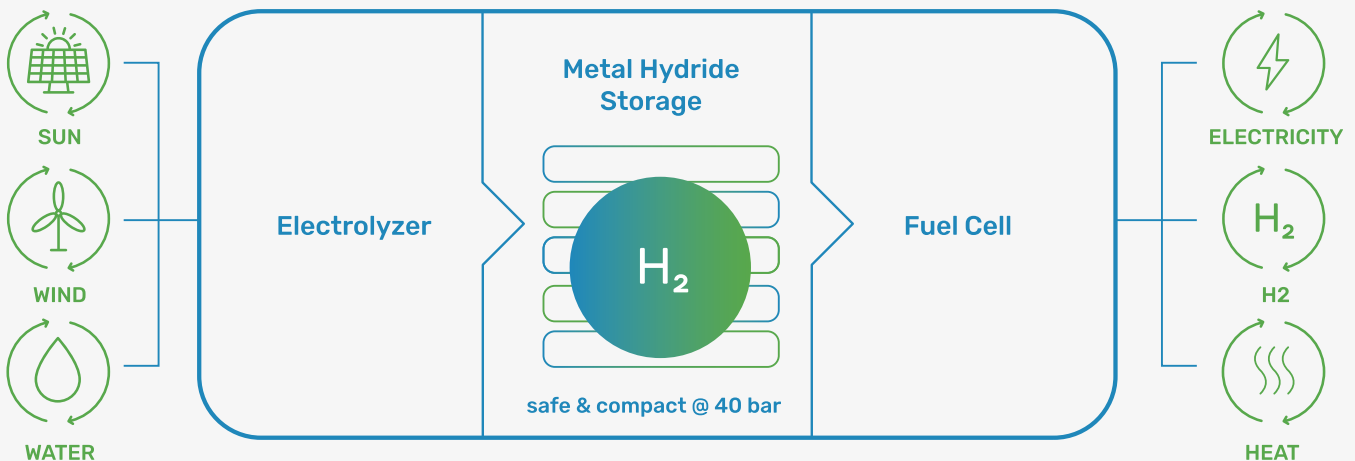


Electrical system

1 or 3 Phase to local requirement
EU 120V/230V/400V – 50 Hz
NA 120V/240V/480V – 60 Hz

20 feet 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 H2 @max. 40bar



Nominal load
7-14kW



Peak load
14W / 19kW
(15 min every 12h)



Output voltages

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



Power during outage

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



Electrolyzer

Up to 10 kg hydrogen per day



Dimensions / Weight

6.0 m x 2.5 m x 2.6 m /
13,000 - 20,000 kg

Application areas



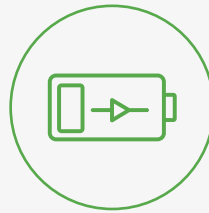
INDUSTRY



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, waste heat recovery line)
- Definition of operational mode (off-grid, grid-parallel, back-up power)
- Certification authority request

