GKN HYDROGEN

GREEN ENERGY STORAGE
HY2MEDI

Energy storage capacity

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

Power

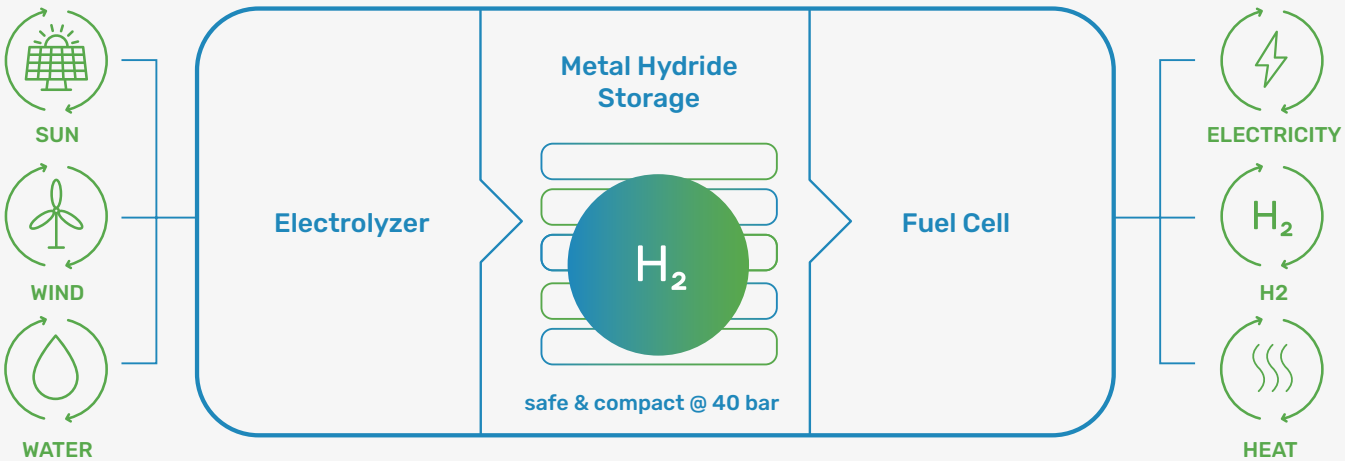
7 – 14kw / 14 – 19kW
peak load (15 min every 12h)

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!



Want to learn more? **www.gknhydrogen.com**

GKN HYDROGEN

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

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