



# ELECTROLYZER SYSTEMS



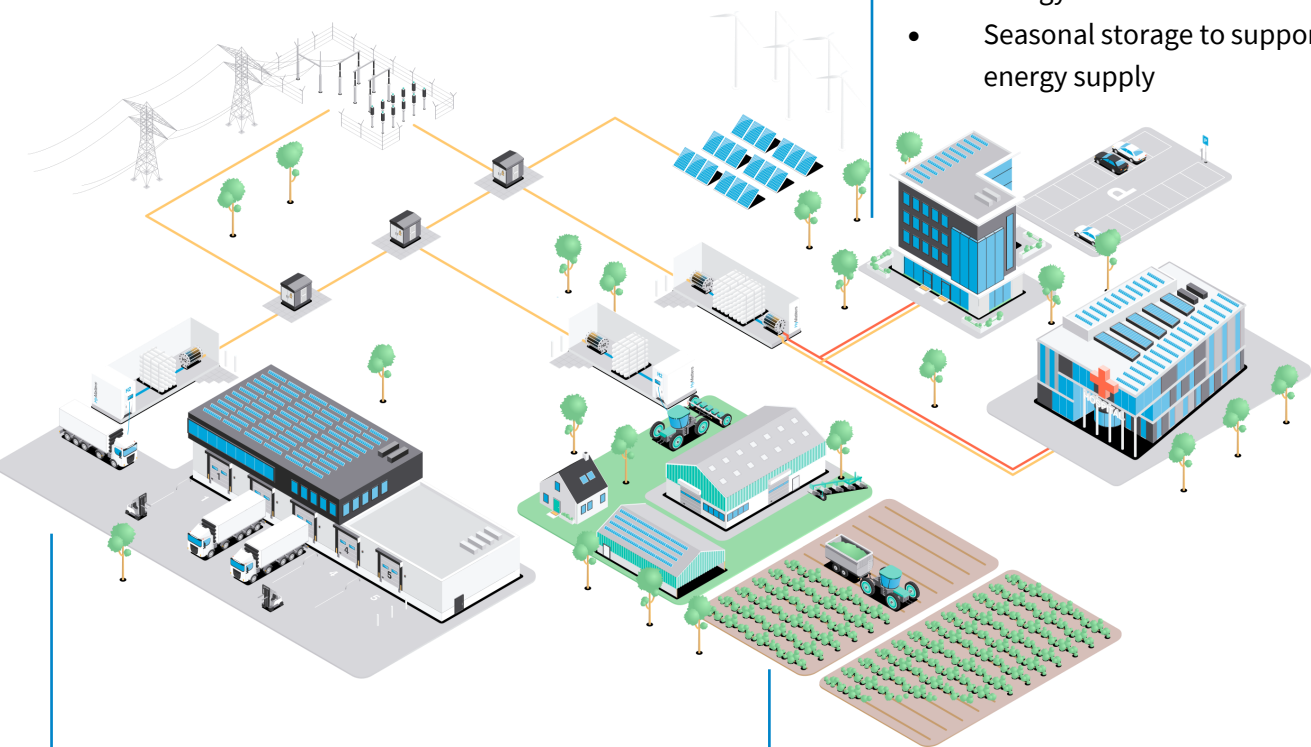
# LOCAL HYDROGEN

**HYMATTERS** helps your company to achieve its sustainability ambitions by enabling the use of green hydrogen in your business processes. Think of heating applications, or making appliances and vehicles work emission-free, on-site. By using electrolyzer systems you produce your own sustainable fuel for your production process or mobile applications. With energy buffering included. **HYMATTERS'** hydrogen systems enable you to realize your sustainability ambitions in time.

The electrolyzer systems are scalable and adaptable to your energy infrastructure and energy needs. **HYMATTERS** offers integrated hydrogen solutions by linking the electrolyzer systems with storage and filling options. This way, you get the cost-effective solution you need.

## REAL ESTATE

- Energy-neutral buildings
- Maximum utilization of local renewable energy
- Seasonal storage to support security of energy supply



## INFRASTRUCTURE & TRANSPORT

- Operation without (local) emissions
- Heavy duty applications
- 24/7 operation

## AGRICULTURE

- Energy-intensive applications
- Operation without (local) emissions
- Full utilization of renewable energy from the own yard



# CUSTOMIZABLE ELECTROLYZER SYSTEMS

**HYMATTERS** invites you to discuss your needs together. To provide the best customization for your needs using our versatile modules. Because our electrolyzer systems comprise everything you need, from grid and tap water connection to dispenser.

## PROPERTIES

- Power electronics capable to handle fluctuating renewable sources such as solar energy
- Grid congestion management
- Integrated water purification
- Compression for automotive applications (350 bar)
- Storage topology maximizing hydrogen availability
- Monitoring safety and performance
- Asset management support by digital twin technology

## MODULAIR SYSTEMS

	HM_20	HM_50	
<b>E-Connection</b>	400 VAC, 3x 32A	400 VAC, 3x 80A	
<b>Production</b>	5	16	kg H <sub>2</sub> per day
<b>Storage</b>	7	on request	kg H <sub>2</sub>
<b>Pressure</b>	40 or 350	40 or 350	bar

## OPTIONS

- Grid support for electricity from wind and solar energy (NEN-EN 50160)
- Dispenser for vehicles (SAE J2600 compatible)
- Hydrogen quality for combustion or automotive (ISO 14687)
- Online visualization of performance
- Various storage capacities on request
- Fuel cell module for power-to-power applications on request
- Other sizes and capacities on request





**HYMATTERS OPERATIONS B.V.**

+31 6 255 204 51

[info@hymatters.com](mailto:info@hymatters.com)

[www.hymatters.com](http://www.hymatters.com)

**VISITING ADDRESS**

Westervoortsedijk 73

6827 AV Arnhem

the Netherlands

