

**McPhy**  
energy

Hydrogen,  
a new energy  
for our planet

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# McPhy Energy Group

Solutions for a green and safe hydrogen infrastructure



European provider of integrated  
 $H_2$  - Systems and Solutions for  
Industry, Utilities and Mobility applications



Developer and Manufacturer of  
industrial, innovative and efficient  
technologies for generation, storage and  
integration of hydrogen for global markets



# McPhy Energy Group

## A portfolio of innovative products

### A portfolio of innovative products ...



Small & mid electrolyzers

 Ponsacco



Large electrolyzers

 Wildau



Disruptive H<sub>2</sub> solid storage technology

 La Motte Fanjas

### ... addressing 2 main high-growth markets



**INDUSTRIAL  
HYDROGEN**



**ENERGY &  
MOBILITY**



# Hydrogen generation and storage

## Alcaline 2.0 + disruptive solid state storage

### H<sub>2</sub>-Generators



- Reinventing maturity:
  - > Alcaline 2.0 McLyzers
- Application optimized:
  - > 1 - multi 100 Nm<sup>3</sup>/h
  - > 1-45 bar pressure output
- Proven, applied technology

### H<sub>2</sub>-Solid State Storage



- Making Innovation happen:
  - > Solid State Storage
- Application adjusted:
  - > Mg-H (Heat exchange based)
  - > Fe-TiX (Low Temperatur)
- Disruptive but demonstrated



# McStore M-Series

## HDS 100 - first industrialized system



# McLyzer 60-10 bar

Reliable, robust, cost and dynamics optimized





# McLyzer 200-45 bar

## Alcaline 2.0 technology for large scale applications



*«Yes, my friends, I believe that water will be one day used as fuel, that the hydrogen and the oxygen, which make it, used separately or simultaneously, will provide a source of inexhaustible heat and light and with an intensity the coal could never reach. »*

Jules Verne, L'Île Mystérieuse - 1874

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