

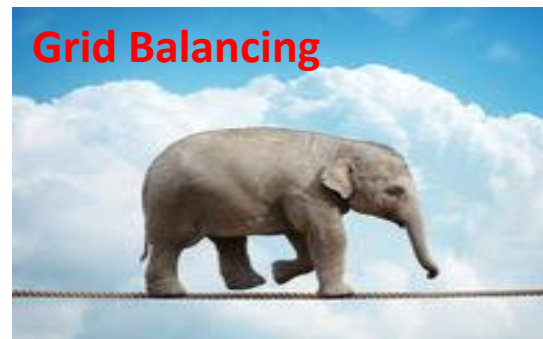
Our answer:

# CLEAN FACTORY REVOLUTION

**McPhy**

Driving  
clean energy  
forward

- Energy Transition : integrate renewables, reduce CO2 impact of conventional assets, grid balancing
- Decarbonize the industry, transport, get “cleaner” air in the Cities
- McPhy : Innovative, Efficient and Scalable Hydrogen Solution
- H2 a world of opportunities : how to start ?  
How to mix regional/local actions and national plan ?



# A new Paradigm in the Energy Market : H2 the Key Enabler

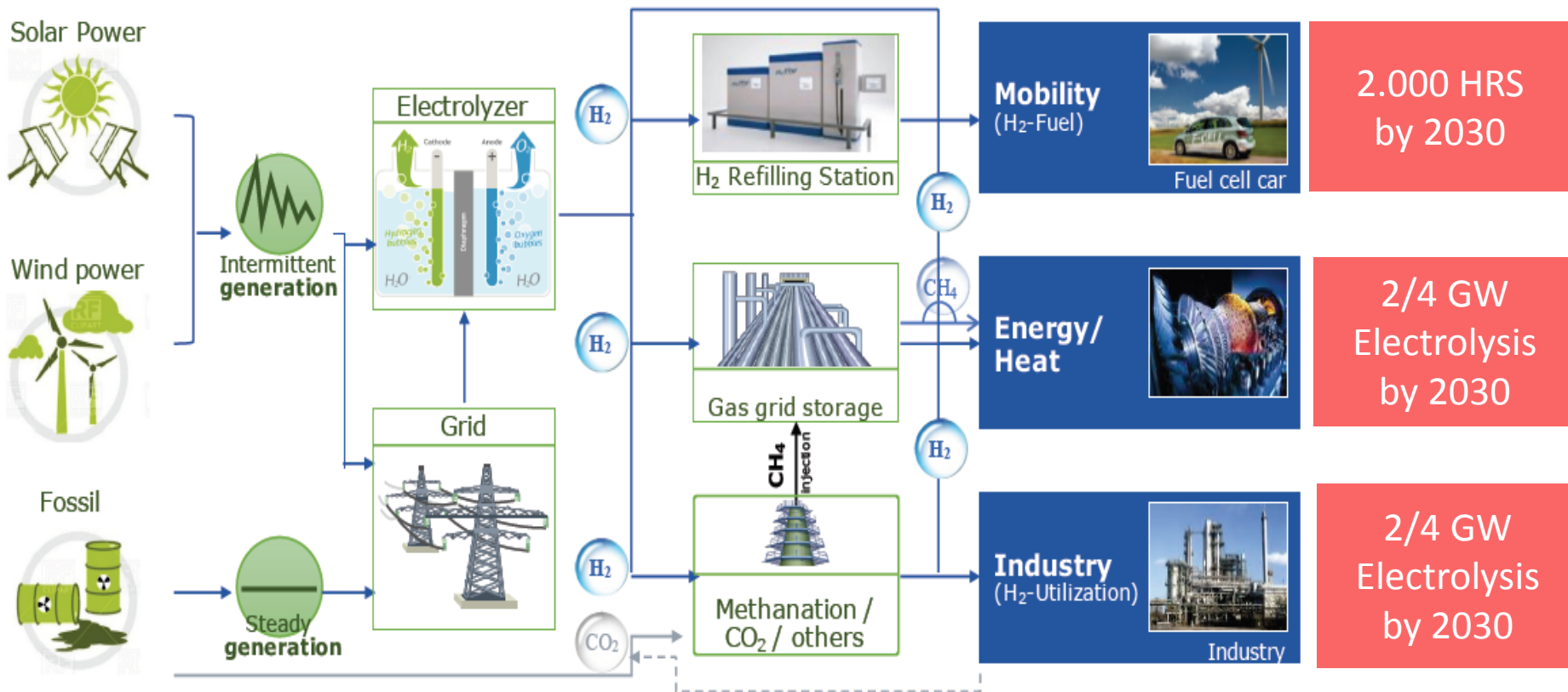
Power generation

Power conversion

Energy storage

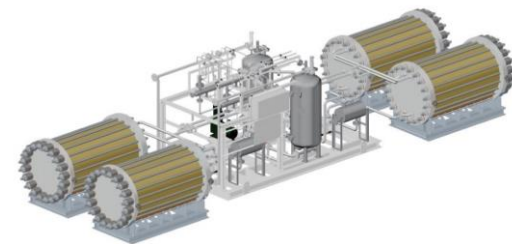
Utilization

Opportunities

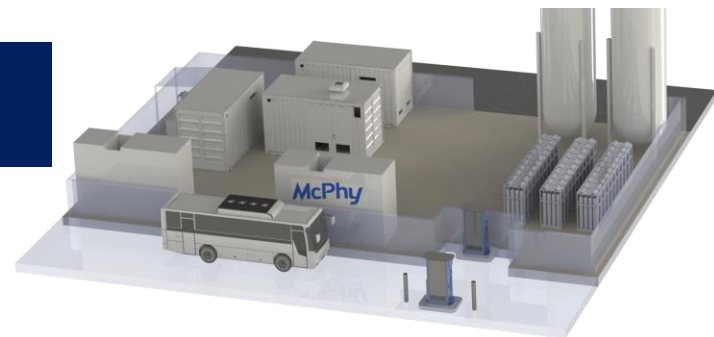


- Identikit
  - **Created in 2008 : 10 years !**
  - 5 sites : France, Germany, Italy, China and USA
- 🇫🇷 🇩🇪 🇮🇹 🇨🇳 🇺🇸
- 15 years of R&D
  - 85 employees
  - € 10,1 M in sales revenue for 2017
  - **Flagship Reference :**
    - > 13,5 MW Electrolysis ,
    - > 12 HRS in operation

Scalable Electrolyzer for  
Industry, Energy



Large Hydrogen Refilling  
Station for Mobility



McPhy Italy :  
Manufacturing  
Center



McPhy Germany :  
Engineering Center



McPhy France :  
R&D, HRS Center





# AUGMENTED CLEAN HYDROGEN TECHNOLOGIES

TO FIT WITH YOUR LARGE-SCALE APPLICATIONS

**NEW  
2018!**

Scalable architecture: 4 / 20 / +100 MW

20 MW cluster: a footprint < 900m<sup>2</sup>

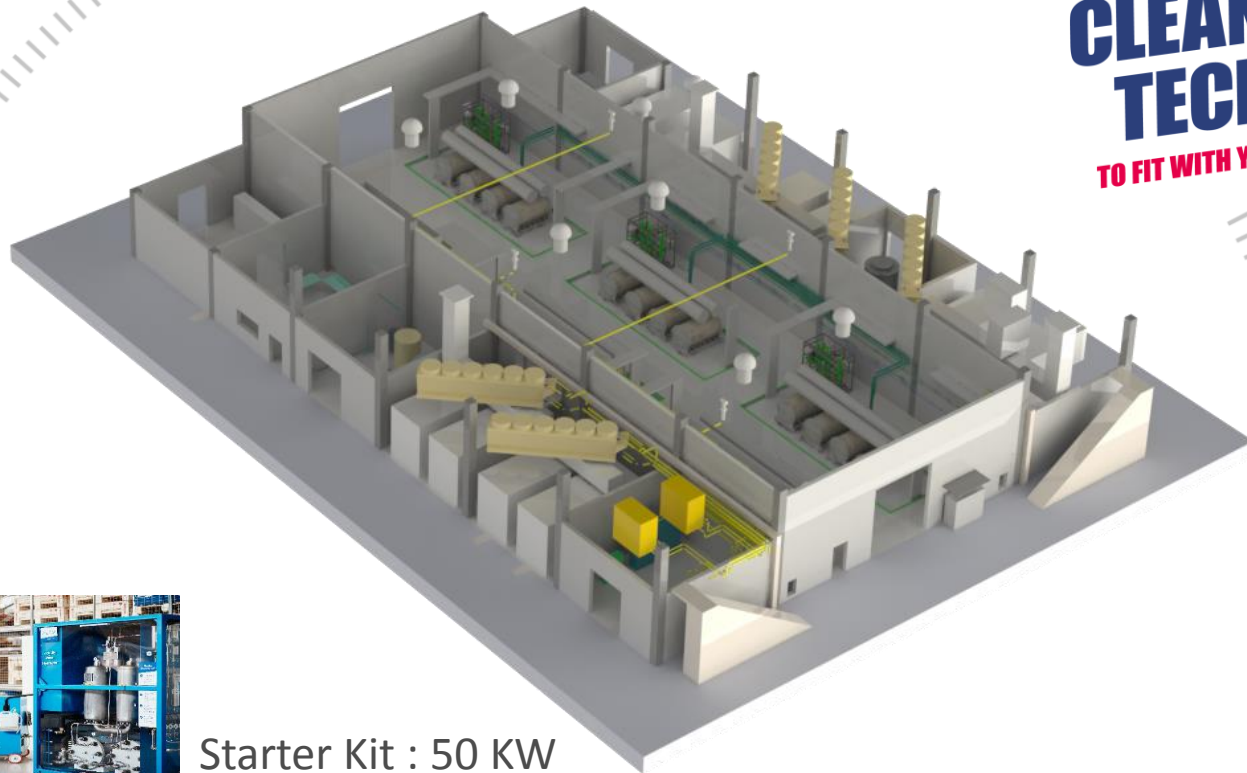
High pressure production: 30 bar

Quick response & High energy efficiency

Starter Kit : 50 KW



**Augmented McLyzer**  
Our new generation of electrolyzers





Starter Kit : 20 Kg

# AUGMENTED CLEAN HYDROGEN TECHNOLOGIES

TO FIT WITH YOUR LARGE-SCALE APPLICATIONS

**NEW  
2018!**

To 400 kg per day and more

At 350 and / or 700 bar

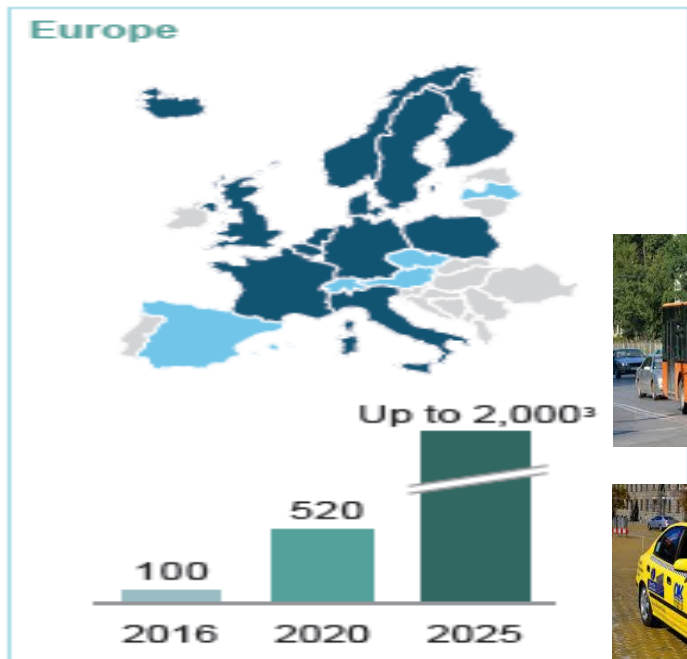
For heavy transport: buses, trucks, trains, boats ; and / or for large fleets

Interfaces with an electrolyzer for true clean mobility chain



**Augmented McFilling**  
Large-scale clean mobility solutions

## Central Europe and Bulgaria : large opportunities and potential



Be Selective : give priority to viable business case Transport (Buses, Taxis, Captive fleet...), industry (methanol, eFuel, refineries...)

Pragmatic : launch first Pilots Project with proven technologies and reference

Think strategic : define a plan to align public and private actors and give visibility to Hydrogen Community