McPhy Full-Year 2020 Results

DESIGNER AND MANUFACTURER

OF EQUIPM

a DISTRIBUTION

OF ZERO-CARBON HYDROGEN

FOR THE PRODU

March 09, 2021

BY McPhy

Agenda





Laurent CARME Chief Executive Officer



Emilie MASCHIO Chief Financial Officer

2020 Highlights



13.7 m€

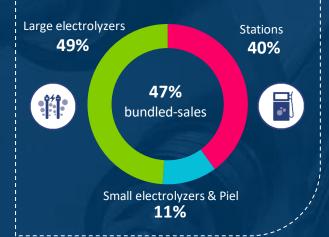
revenue +20% vs. 2019

23.0 m€

order intake, +75% vs. 2019

-8.8 m€

EBIT



15.2 m€

backlog +154% vs. 2019

197.7 m€

cash balance

Projects delivered [selection]

| Delivering to our customers



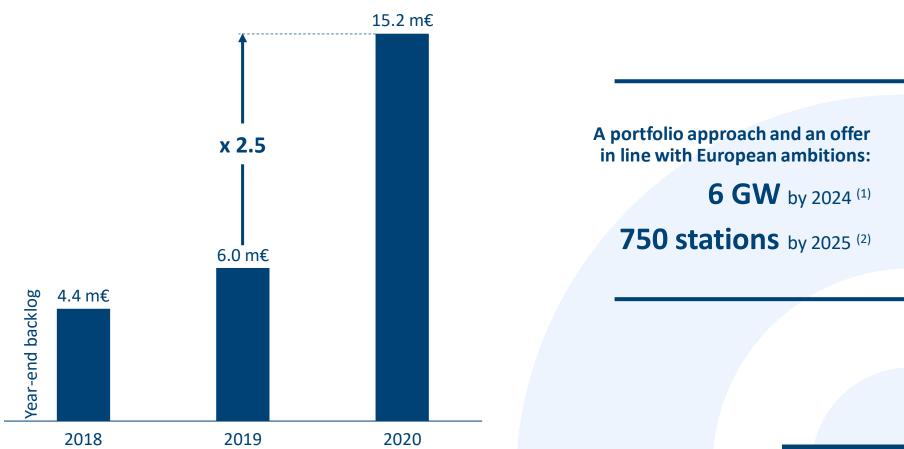
Projects booked [selection]

| Transition to industrial scale



Backlog evolution

| Capturing massive market potential





2020 financial highlights

IFRS (in €m)		2020	2019	2018
1	Orders	23.0	13.0	8.0
2	Sales revenue	13.7	11.4	8.0
3	EBITDA	(7.6)	(3.9)	(7.3)
4	Current Operating Income (EBIT)	(8.8)	(6.5)	(9.4)
	Operating Income	(9.0)	(6.5)	(9.4)
	Net income (loss)	(9.3)	(6.3)	(9.5)
	Operating Cash flow	(7.3)	(7.5)	(7.0)
5	Change in cash	184.7	(1.9)	10.6
	Closing cash	197.7	13.0	14.9

- **1** Signing of major commercial contracts in France and Europe: a +75% growth
- 2 Revenue increase: +20% to reach 13.7 m€ 47% of the 2020 revenue generated by bundled-sales, coupling electrolysis and hydrogen refueling station
 - In 2019: **3.0 m€ in other ordinary income** linked to the cancellation of the repayment of the debt as part of the Pushy project

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 Growth in purchases and external charges in proportion to the activity and in line with the strategy to continue to invest in R&D and to onboard people: recruitment of 12 net new employees, total number of employees of 110 as of December 2020

5 Success of the capital increase in October 2020: 180 m€ raised

McPhy at a Glance | Driving clean energy forward



McPhy

End-use

McPhu

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A leading company in zero-carbon H_2 production & distribution equipment

Transport

& Storage

Electrolyzers

- Modular design: 1MW / 4MW / 20MW / 100MW+
- Pressurized Alkaline electrolysis (30 bar)
- High-current density electrodes
- For Industry, Mobility and Energy markets

production

Supply & Service

Stations

- High delivery capacity:
 200 / 400 / 800 / 2 000 kg/d
- All dispensing pressures:
 350 bar / 700 bar / Dual Pressure
- Easy coupling with electrolyzers
- Main focus on heavy mobility (buses, trucks, trains, etc.)
- Supply & Service

Distribution

Electricity production

A global presence | EU industrial footprint, global commercial reach



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Scale-Up Strategy

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Vision

Strengthen our position as a global leader in hydrogen equipment manufacturing

Partner with our customers

Accelerate our industrial scale-up to increase the competitiveness

Cover the whole value-chain

The means of our ambition

| 180 m€ of capital increase to finance our 4-pillar strategic plan



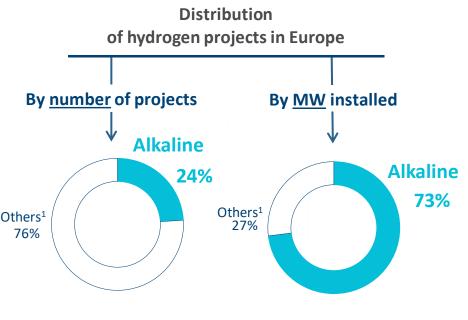
- Maintain leadership in electrolyzers and hydrogen stations
- Focus on XL sizes (100+ MW / 2 000+ kg/d)
- Ensure state-of-the-art safety of the systems
- Increase bankability of value proposition through emblematic references
- Build partnership & alliances
- Accelerate international commercial ramp-up
- Grow capacities to generate economies of scale: new capacities for stations and electrolyzers
- Deliver cost out roadmap

- Hire key talents and capitalize on them:
 50 recruitments planned in 2021
- Structure organization and processes



Positioned on prime technology: alkaline

Proven long-term resilience and stability



Pressurized alkaline electrolysis is the most selected technology to answer the broad-scale needs of decarbonization

Pressurized alkaline technology highlights

- Proven-technology (200+ years)
- Innovative high-current density electrodes
 co-developed with: DE NORA
- Long term resilience and stability
- Lower CAPEX (precious metals avoidance, ...)
- Compacity
- Flexibility suited to integration with renewables
- Better suited to large projects

The best way to move towards large-scale green hydrogen

McPhy



Why choosing McPhy?

| Front runner within electrolysis technology





Containerized configuration: lower building and installation costs Perfectly adapted to green field environment.



Electrolyzers

High current density electrodes

- Flexibility and fast response time
- High efficiency: < 4.9 kWh / Nm³
- High-pressure: 30 bar, no need for further compression stage
- Modular technology (standardization and replicability): 1 / 4 / 20 / 100+ MW
- Compact footprint:
 20 MW installed in less than 900 m²
- Highest quality & safety standards



Why choosing McPhy?

| Ready for the zero-emission heavy transportation revolution

McPhy

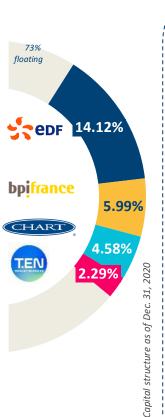
2 000 kg/d configuration: 12 trains, 50 trucks or 100 buses refueling

Stations

- Scalability of McPhy stations (storage): 200 / 400 / 800 kg/d
- As of 2 000 kg/d: a proprietary & patented architecture
- All dispensing pressures:
 350 bar / 700 bar / Dual Pressure
- Increased availability and flexibility, optimized energy efficiency
- Optimized investment and operating costs
- Easy coupling with electrolyzers



Building partnership ecosystem around technology | Integrated offer along the value-chain



STRATEGIC SHAREHOLDERS

CEDE

Customer for industry, mobility and energy

- 1st commercial success AUXR_H2 Joint technology development
- Performance test on real conditions
- Interaction with low carbon and renewable energies (grid versatility)

bpifrance

French sovereign funds' support

• Supports innovative companies involved in the deployment of green energies

CHART

Manufacturing and liquid H₂ expert

- Market access North America in heavy-mobility ; c.10 mid term opportunities (300+ MW / 10+ stations)
- Expertise in manufacturing scale-up and supply chain
- Joint technology development (e.g. liquefaction, storage, ASME norms)



EPC preferred partner for GW-scale electrolysis

- Expertise in H₂ process integration ; >5 short term joint tenders (350+MW)
- Market access to Oil & Gas and downstream chemicals
- Position in strategic geographies (e.g. US, MEA)

TECHNOLOGY PARTNER

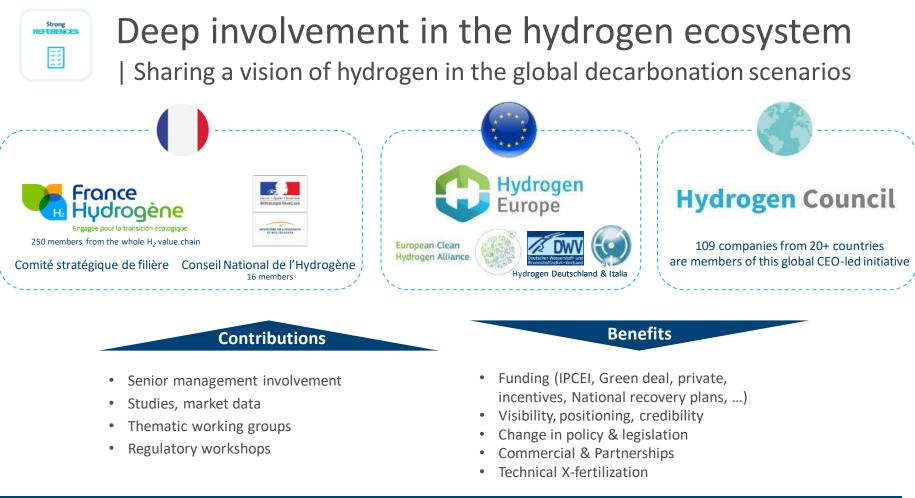
DE NORA

Technology partnership

- Exclusivity on high current density electrodes
- Joint technology development







Strong contribution and advocacy to unlock market potential



Hydeal Ambition

HyDeal Ambition: Europe's first open and integrated green hydrogen consortium

- **Solar developers**: DH2/Dhamma Energy (Spain), Falck Renewables (Italy), Qair (France)
- **Electrolysis** OEMs, engineering and EPC providers: McPhy Energy (France), VINCI Construction (France)
- Gas TSOs: Enagás (Spain), OGE (Germany), SNAM (Italy), GRTgaz (France), Teréga (France)
- Energy and industrial groups: Gazel Energie, subsidiary of EPH (France), Naturgy (Spain), HDF Energie (France)
- Infrastructure funds: Cube, Marguerite, Meridiam
- Consultants and advisors: European Investment Bank, Corporate Value Associates (CVA), Clifford Chance, Cranmore Partners, Finergreen, Envision Digital, Energy Web

McPhy is part of this unique industrial initiative

- 30 energy players initiate an integrated value chain
- Collective goal: deliver green hydrogen across Europe at €1.5/kg before 2030
- Ambition is to achieve 95 GW of solar and 67 GW of electrolysis capacity by 2030, to deliver 3.6 million tons of green hydrogen per year
- First initiative expected within a year in Spain, based on a portfolio of solar sites with a capacity of close to 10 GW



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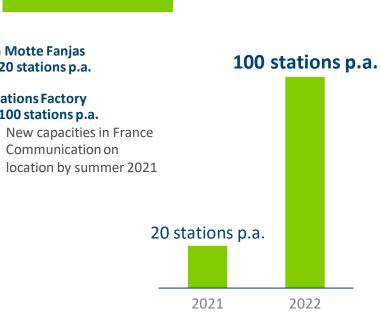
2021

Increasing manufacturing capacities

Serve market growth

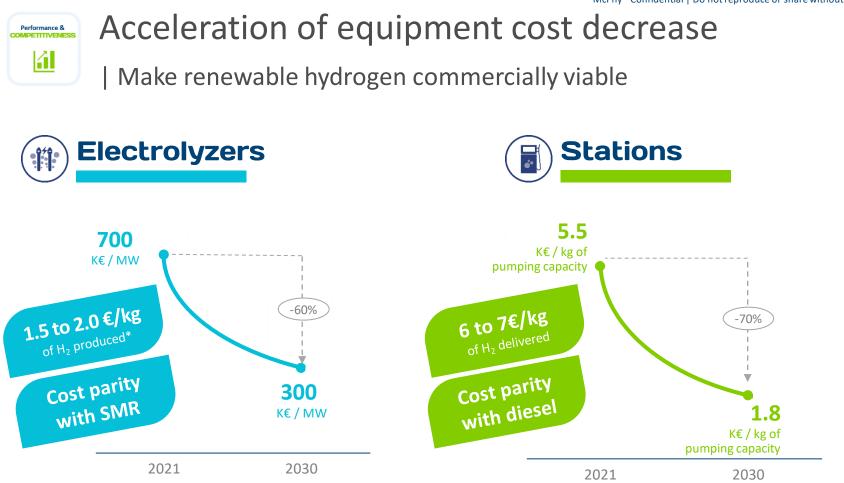


San Miniato La Motte Fanjas 1300 MW p.a. | 100 -> 300 MW p.a. 20 stations p.a. • A premier industrial **Stations Factory** infrastructure 100 stations p.a. Increased automation + 3 shifts-ready in 2022 ۰ **Giga Factory - France 1 GW p.a.** Go decision: summer 300 MW p.a. Additional capacities to McPhy San Miniato 100 MW p.a. Operational in 2024 2021 2022 2024



Stations





Cost-parity with fossil before 2030

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Invest in McPhy people

"One McPhy" team and strengthened operating model

Diverse

20+ citizenships 25+ % female

3 countries: 50% France, 25% Germany, 25% Italy

Experienced

Executive Committee: ~25 years of average working experience Board of Directors: 10 senior experts and CEOs

Qualified

Top EU & global engineering universities and schools 50+% PhD or Engineers

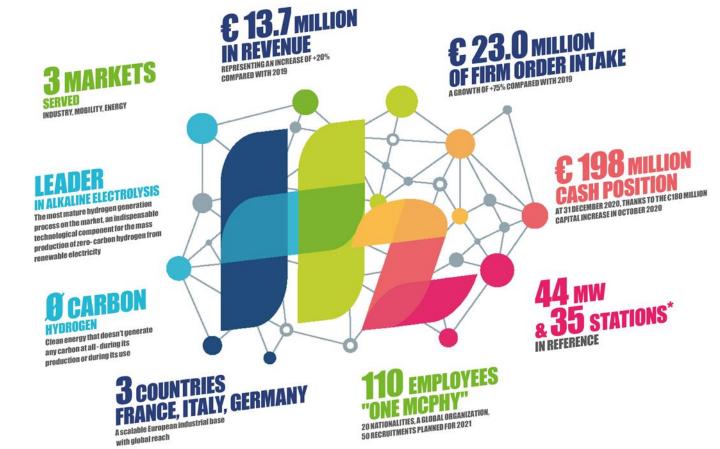
Growing

110 people +50% in 2021

Summary

Snapshot 2020

| In 2021, let's continue driving clean hydrogen forward





Appendices | Build strong references

Station de recharge pour véhicules

OGENE

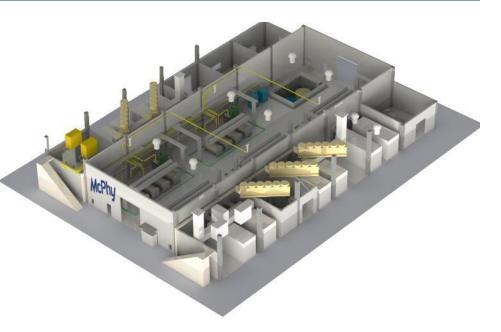
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The largest zero-carbon H₂ production unit in Europe Located in the heart of a chemical park

- Electrolysis: 20 MW alkaline electrolysis platform
- High current density electrodes
- 3 000 tons of zero-carbon H₂ / year and 27 000 tons of Co₂ emissions avoided / year
- Key project to establish zero-carbon hydrogen competitiveness at large-scale
- Industrial use: chemicals
- Timeline: 2022
- 1 m€ booked | scope of McPhy: 15 m€





McPhy



Zero Emission Valley



The largest H₂ mobility deployment project in France, one of the most ambitious at a European level

- Electrolysis: 4 MW of alkaline electrolysis^{*}
- Stations: 5 stations of 400 to 800 kg/d (each)
- The MAT consortium led by McPhy will, in total, deliver 4 MW of electrolysis and 14 stations
- Timeline: 2020 to 2022
- Booked: 7.8 m€ | *scope of McPhy: >11 m*€



Hyport

Strong



The first hydrogen production and distribution system to be implemented in an airport area

- Electrolysis: 1 MW alkaline electrolysis platform
- 1 Dual Pressure high-capacity station: 400 kg/d to be deployed in a public zone
- 1 Starter Kit (20 kg/d at 350 bar), to be set up in a private restricted zone for airport services
- Timeline: end of 2021
- Booked: 4.0 m€



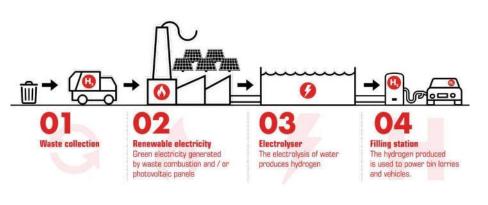
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Dijon Métropole Smart EnergHy





Rougeot Energie ©

Development of the H₂ infrastructure of the metropolis of Dijon

- Electrolysis: 1 MW alkaline electrolysis platform
- 2 stations of 400 kg/d (each), 4 distribution terminals in total (heavy and light vehicles)
- Zero emission mobility: fleet of 27 buses, 9 garbage trucks and ~15 light vehicles
- Contract signature: 2020
- 4.6 m€







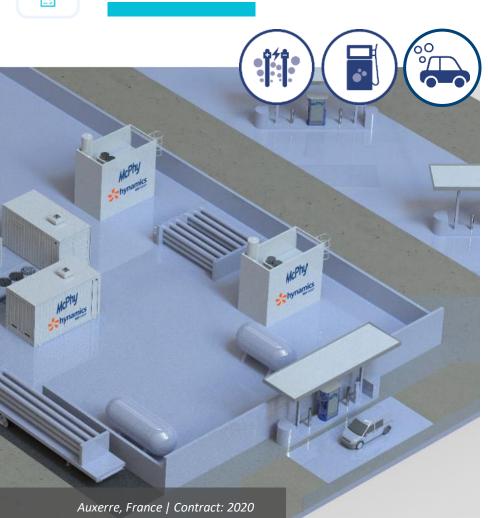


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Dijon, France | Contract: July 2020

AUXR_H2

Strong



Multimodal ecosystem H₂ in the heart of the auxerrois territory

- Electrolysis: 1 MW alkaline electrolysis platform
- Station 200 kg/d
- Multimodal platform: recharging 5 buses in phase 1, but also distributing to light vehicles and trucks
- Hydrogen produced from "guaranteed origin" electricity, 2 200 tons of CO₂ avoided per year
- Commissioning: autumn 2021
- Booked: 3.6 m€





This project is supported by ADEME | This project received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking program under the European Union's "Horizon 2020" research and innovation program under grant agreement no. 77956 ".



Jupiter 1000





First Power-to-Gas project at a MW-scale in France

- Electrolysis: 1 MW of electrolysis,
 0.5 alkaline + 0.5 PEM
- Industrial + Energy end-uses
- Testing the performance of two electrolysis technologies (alkaline & PEM) under real conditions and on a real scale
- Commissioned in 2019
- 2.4 m€





Sinopec Hebei



A strong expertise in international projects management

- Electrolysis: 4 MW of alkaline electrolysis
- Zero-carbon hydrogen production platform, from a wind farm
- Very fast dynamic response, adapted to renewable energy variations
- Strengthens McPhy's positioning on international multi-MW projects
- Commissioned in 2021
- 6.4 m€



Management Team



A STANDA

McPhy

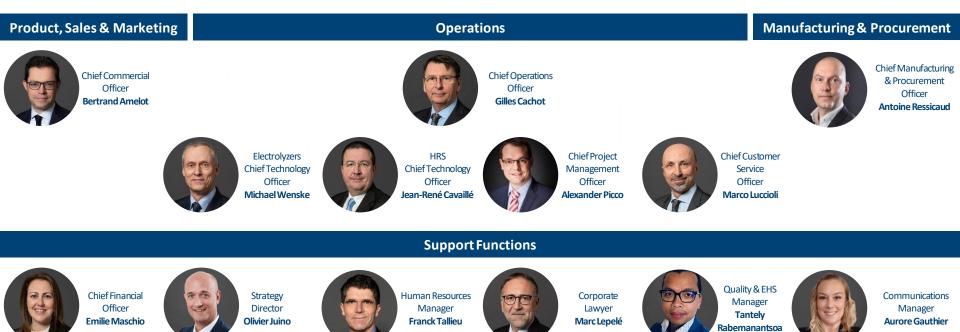
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A highly experienced, international, Executive Committee



Chief Executive Officer Laurent Carme



Countries

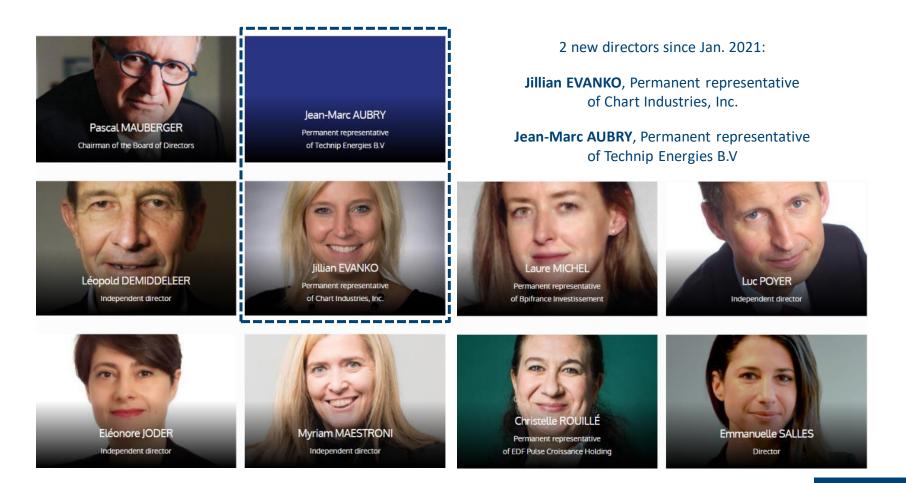
France Jean-René Cavaillé

Germany Michael Wenske

Italy Marco Luccioli

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Board of Directors made of senior experts and CEOs





Driving clean energy forward

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