CLEAN MOBILITY REVOLUTION CLEAN MOBILITY REVOLU

Investor Presentation

July 2019



COOLING SOCIETY OF HERMIE

Agenda

Introduction McPhy's strategy | Focusing on building tomorrow's profitable growth **H1 2019 Key Highlights** 2020: market outlook



Introduction

July 2019



Our "raison d'être": DRIVING CLEAN ENERGY FORWARD



As a pioneer of hydrogen technologies in the service of energy transition, McPhy has in ten years positioned itself among the leaders in clean hydrogen.

Our ambition: designing innovative clean hydrogen solutions that are "Fit for purpose. Ready for the future."

Pascal MAUBERGER | Chairman & CEO

Being a global innovative player committed to helping our Customers transition to a low-carbon society

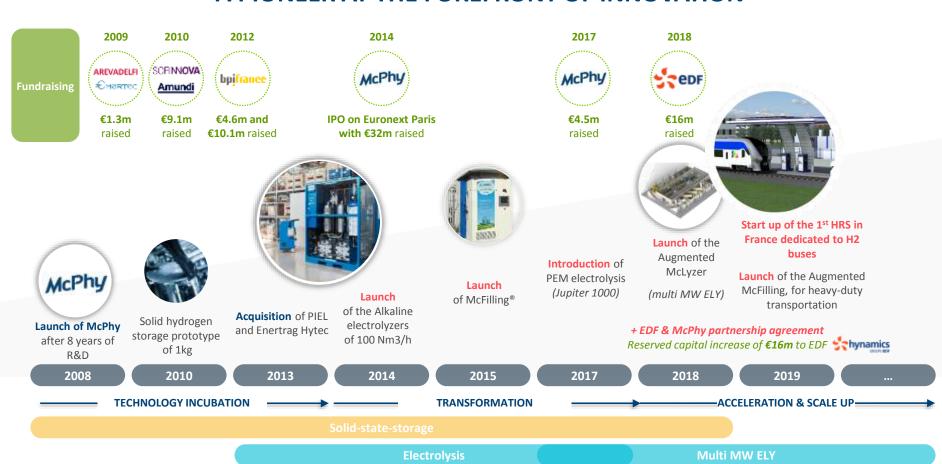
⇒ friendly to the planet / environment & friendlier to the people

Thanks to hydrogen, used as a #CleanEnergy vector in the energy, industry and mobility markets

Multi-tons HRS

McPhy

Born from innovation, driven by ambition A PIONEER AT THE FOREFRONT OF INNOVATION





CONSOLIDATED

23 HRS
A DAILY POTENTIAL OF
69.000
ZERO-EMISSION KILOMETERS
#CLEANMOBILITY

16 N W
OF HIGH CAPACITY ELECTROLYZERS

MORE THAN
Y TONS OF CLEAN HYDROGEN
PRODUCED PER DAY

McPhy's references 1 lists and

FRANCE







FRANCE

Innovation platform, test bench and industrial manufacturing site dedicated to Hydrogen Refueling Stations



ITALY

Best in class workshop for stack manufacturing and the assembly of PIEL & McLyzer electrolyzers (up to 0,5MW)



GERMANY

Development and EPC for multi MW electrolysis systems

INTEGRATED APPROACH | GLOBAL REACH

Piel, McLyzer and McFilling A MATURE PRODUCT PORTFOLIO CAPABLE OF ADDRESSING ALL THE NEEDS



Piel Electrolyzers From 0,4 to 12 Nm³/h 1 to 8 bar

McLyzer Electrolyzers From 10 to 800 Nm³/h 30 bar

Augmented McLyzer Multi MW concepts; 20 to +100 MW (30 bar)

McFilling Hydrogen stations Small, medium and large capacities 350 and/or 700 bar

Augmented McFilling 2,000 to + 10,000 kg / day

Services

A wide array of services: remote supervision, preventive maintenance, training of your staff, ...



McPhy, READY FOR THE SCALE UP of hydrogen market





MCPHY'S STRATEGY

Focusing on building tomorrow's profitable growth

July 2019







Three key pillars to build tomorrow's growth "

- 1 Stay at the cutting edge of hydrogen technology
- 2 Build **key references** in the new markets

Build partnerships to leverage sales efforts and accelerate development



1

Stay at the cutting edge of hydrogen technology





Launching disruptive products matching our clients' needs

Electrolyzers





- Systems ranging from few MW up to 100 MW and over
- High energy efficiency, and high dynamic response
- Reduced foot print
- Improvement of competitiveness

Refueling stations



- Deploying hydrogen mobility solutions on a large scale
- A strategy to support the development of infrastructure for increasingly heavy vehicles and large rollers (fleet of vehicles, buses, trucks and trains)





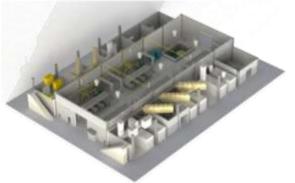
2018, a year full of innovation

AUGMENTED McLyzer





- A techno. breakthrough, 2 years of R&D
- Modular architecture with capacities of 4, 20, 100 MW and more
- Doubling the amount of hydrogen produced, while combining high energy efficiency, reduced footprint and drastic improvement of competitiveness
- Value added recognized by the industrial players



McFilling 700 bar



- Positive tests conducted alongside Toyota on a 700 bar testing platform
- First delivery: 2019, in Germany for Shell







2019: accelerating the pace of change

Launch of Augmented McFilling + Patent deposit



- A HRS dedicated to heavy-duty transportation (trains, trucks, buses)
- An innovative combination of shared functions and dynamic reconfiguration of the station's operating scheme
- The software intelligence that makes the hydrogen station dynamically reconfigurable is a proprietary and patented technology



UNLIMITED HRS designs & usage scenarios Trains, trucks, buses | Without capacity limits

DYNAMIC RECONFIGURATION

Embedded digital intelligence for a smart and lean management of the operating scheme

PROPRIETARY ARCHITECTURE

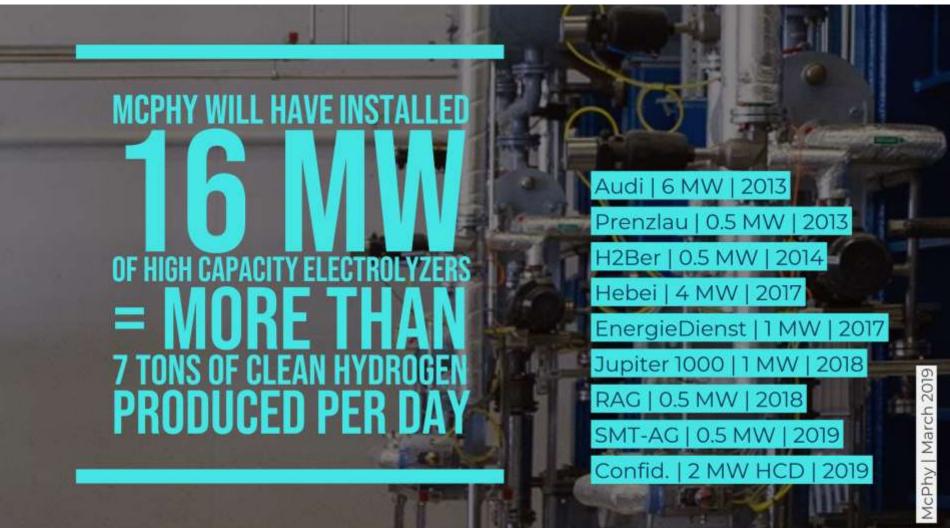
A unique HRS design that mutualizes the functions

> STATE OF THE ART technologies



2 Build key references in the new markets





Installing high capacity electrolyzers FOR LEADING PLAYERS

MCPHY WILL HAVE INSTALLED





Offering a full range of hydrogen stations TO ACHIEVE THE CLEAN MOBILITY REVOLUTION









The first station in France dedicated to hydrogen buses







200-350 + McLyzer

0,5 MW





Build partnerships to leverage sales efforts and accelerate development





CONTINUING TO POWER AHEAD



Hydrogen Council

- Increasing our visibility within the hydrogen ecosystem
 - Working with our pairs to develop the market

Industrial and commercial partnership





- Reinforcing R&D
- Accelerating the pace of business development
- 2 core markets: industry & mobility

EDF & McPhy: common core targets



Large industry

- Clean Industry Revolution
- Oil and gas refineries, chemical processing, steel mills, thermal power stations, ...
- Supplying industrial companies with low carbon hydrogen
- Reconciling productivity, competitiveness and social responsibility
- Security of supply, control over the costs, reliability, continuity of service, security



April 2019

EDF launches Hynamics, a subsidiary responsible for offering effective low-carbon hydrogen for industry and mobility with the ambition to become a key player in the hydrogen sector in France and around the world



Heavy Transportation

- Clean Mobility Revolution
- Decarbonized hydrogen production equipment + hydrogen refueling stations
- Scaling-up the zero emission mobility solutions: large fleets, buses, trains, boats, ...
- Ensuring a high-quality service all while contributing to improve air quality and public health



H1 2019 Key Highlights

July 2019



2018 key achievements

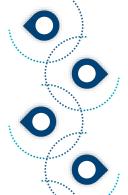
Long-term **supply agreement with De Nora** to integrate its advanced electrodes in McPhy's electrolyzers

Collaboration with Toyota to conduct tests on McPhy's prototyping and testing platform for **700 bar stations**

Signature of a 1st contract for large refueling stations: SMT-AG (Lens-Bethune city) for a 1st HRS for buses

Development of the new PIEL line

Reserved capital increase of €16m to EDF with a 21.7% stake in the capital



Launch of the Augmented McLyzer technology

Signature of a **1**st **station at 700 bar in Germany**: H2Mobility Germany

Successful commissioning: PUS, Rungis, RiverSimple, Hebei, Jupiter 1000, RAG, EnergieDienst

Industrial and commercial partnership with EDF to develop a carbon-free hydrogen in France and around the world

H1 2019: an excellent commercial momentum

IFRS (in €m)	H1 2019	H1 2018
Sales revenue	4.3	3.5
Other ordinary income	0.4	0.5
Income from ordinary operations	4.7	4.0
Purchases	(1.8)	(1.9)
Staff costs	(3.5)	(3.1)
External charges	(3.0)	(2.5)
Allowance for depreciation, amortization & reserves	(0.4)	(0.5)
Current Operating Income (EBIT)	(4.1)	(4.0)
Non-current expenses and income	(0.0)	(0.1)
Operating Income	(4.2)	(4.1)
Net financial income (expense)	(0.0)	(0.0)
Income tax expense	(0.0)	(0.0)
Net income (loss)	(4.2)	(4.1)

- 23% increase in H1 2019 revenue compared to H1 2018, driven by the launch of the refueling station for the first 100% hydrogen bus line in France
- Personnel costs increase (+€0.4m) is due to the strengthening of the staff
- External charges increase is due to purchases and subcontracting linked with increase in revenues



Balance sheet

• Main variances on other assets and financial debt (link to IFRS 16 for €1.2m in assets and in debt) and Receivables increasing link to the activity End of the semester

Assets (in €m)	30/06/19	31/12/2018
Non current assets		
Goodwill	2.5	2.5
Other assets	3.5	2.6
Other non current assets	0.4	0.4
Total non current assets	6.5	5.5
Current assets		
Inventories	2.2	2.2
Trade and other receivables	9.3	6.6
Current tax assets	0.4	0.7
Financial assets	-	-
Cash and cash equivalents	8.6	14.9
Total current assets	20.3	24.4
Total assets	26.8	29.9

Equity and liabilities (in €m)	30/06/19	31/12/2018		
Shareholders' equity				
Share capital	1.8	1.8		
Additional paid-in capital	24.2	31.2		
Treasury stock	(0.2)	(0.1)		
Retained earnings	(14.2)	(17.2)		
Total Shareholders' equity	11.7	15.7		
Non-current liabilities				
Provisions – over 1 year	0.6	0.6		
Financial debt – over 1 year ⁽¹⁾	5.7	5.2		
Other non-current liabilities	0.5	0.5		
Total non-current liabilities	6.8	6.2		
Current liabilities				
Provisions – under 1 year	0.5	0.8		
Financial debt – under 1 year	1.1	0.8		
Trade and other payables	3.6	4.2		
Other current liabilities	3.2	2.3		
Total current liabilities	8.4	8.0		
Total equity and liabilities	26.8	29.9		

Note: (1) In July, waiver of the repayment of €3.1m loan from BPIfrance Financement



Cash-Flows

- Operating cash-flow: -€5.7m
- Net cash position of €8.6m at June 30, 2019

In €m	H1 2019	H1 2018	
Cash-Flow	(3.7)	(3.4)	
Working capital requirement ⁽¹⁾	(2.0)	(0.4)	
Operating Cash-Flow	(5.7)	(3.8)	
Capex	(0.2)	(0.3)	
Projects pre-financing	-	(1.8)	
Change in other loans	(0.6)	0.6	
Capital increase	0.1	18.8	
Change in cash	(6.3)	13.4	
Opening cash	14.9	5.0	
Closing cash	8.6	18.4	

H1 2019 key highlights

Over €5m in orders received

- EAS-HyMob project in Normandy: a 6-station
 order in Eure and Calvados
- Zero Emission Valley project: order for a nextgeneration 40kg/day 30-bar electrolyzer
- Germany: order of 2 MW additional electrolysis capacity for the energy market
- Bangladesh: order from the Bangladesh Meteorological Department for 11 electrolyzers from the PIEL line

Launch of "Augmented McFilling"

- New smart, patented, proprietary hydrogen station architecture for heavy duty vehicles
- For an infinite number of usage scenarios and real-time adaptation to customer needs
- Dynamically reconfigurable
- No capacity limits



Inauguration of France's first refueling station for hydrogen buses

- First 100% hydrogen bus line in France inaugurated by the Artois-Gohelle transport authority (SMT-AG)
- Project equipped with McLyzer and McFilling technologies
- Production of clean hydrogen on site by electrolysis
- 15 min of refueling gives the buses over 300 km of autonomy
- Delivery, by the McPhy station, of 200+ kg of clean hydrogen a day





Post-closing key highlights 2 new orders for a total amount of €2m

McFilling station in Germany



- Order of a McFilling 200-350 station for a similar project to the one achieved with the SMT-AG
- Order from the same client of a McLyzer
 400-30 electrolyzer early this year

McFilling station in Normandy



- An additional order of a McFilling station for the EAS-HyMob project in Cherbourg
- This order increases to 23 the number of McFilling stations installed or currently being installed

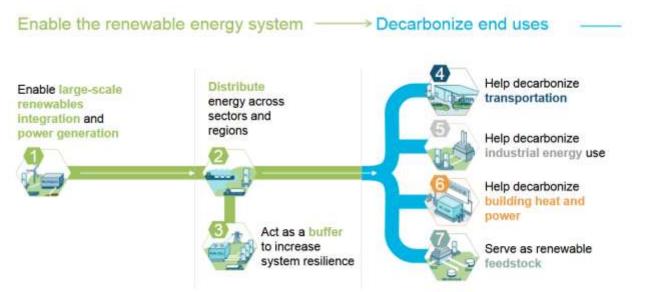


2020: market outlook

July 2019



Towards a clean and secure energy future: THE 7 ROLES HYDROGEN PLAYS IN THE ENERGY TRANSITION





There is a global consensus: hydrogen makes a positive contribution to the world around us, by providing a solution for energy, environmental, societal and economic challenges.

SOURCE: McKinsey, for the Hydrogen Council

The future of hydrogen A VISION FOR 2050





The pace of growth is accelerating | MOBILITY





Alstom win world's largest order for hydrogen-powered trains
Market Business News - 10 juin 2019

By winning the world's largest tender for **hydrogen**-powered **trains**, **Alstom** is on track to help Germany green its **rail** industry. Fahme ...



The pace of growth is accelerating | INDUSTRY

\$50m green hydrogen project confirm New Zealand

By Molly Burgers | 24 June 2019











Ballance Agri-Nutrients and Hiringa Energy have confirmed a joint development agreement for a \$50m clean-tech project in Taranaki to produce green hydrogen using renewable energy.

The project will be based at Ballance's Kapuni ammonia-urea plant and is seen as a catalyst for the development of a sustainable green hydrogen market in New Zealand to fuel heavy transport.

NOURYON AND GASUNIE TO SUPPLY GREEN HYDROGEN FOR BIOMCN RENEWABLE METHANOL PRODUCTION

By Mary Page Balley | Petruary 28, 2010









Nouryon (formerly AkgoNobel Specialty Chemicala: Amsterdam; www.nouryon.com) and Gasonie have agreed to supply green hydrogen to BioMCN for the production of renewable methanol from CO1. The companies say it marks the next step in the suntainability of processes in the industry.

Nouryon and Gaussie are currently investigating the possible conversion of sustainable electricity into green hydrogen using a 26-megawatt water electrolysis unit in Delfziil, the Netherlands. A final decision on the project is expected later

World first for steel: ArcelorMittal investigating use of hydrogen

By Joanna Sampson J 1 April 2019

















ArcelorMittal is investigating the use of industrial-scale hydrogen in the steel production process for the first time.

As part of the steel manufacturing giant's strategy to reduce CO2, ArcelorMittal plans to use hydrogen for the direct reduction of iron ore at its plant in Hamburg, Germany.

According to the company, the aim of the new hydrogen-based process to be able to produce steel. with the lowest CO2 emissions.

SHELL TO BUILD WORLD'S LARGEST HYDROGEN ELECTROLYSIS PLANT AT RHEINLAND REFINERY

By Mary Page Salley | January 19, 2018









Royal Dutch Shell plc (The Hague, the Notherlands; www.shell.com) and FTM Power will build the world's largest hydrogen electrolysis plant at Rheinland refinery, Germany, With a peak capacity of 10 megawatts, the hydrogen will be used for the processing and upgrading of products at the refinery's Wesseling site as well as. testing the technology and exploring application in other sectors.

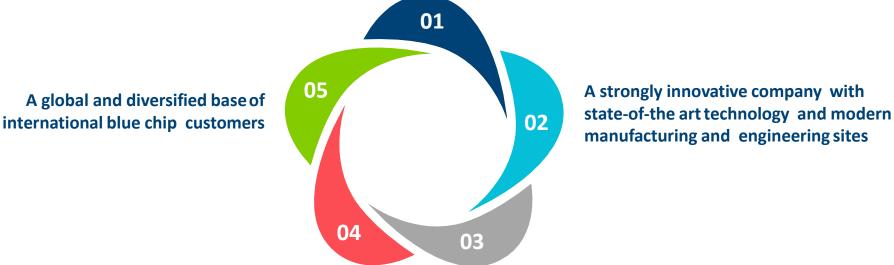


The only French player worldwide being able to address the whole value chain of Hydrogen

COMPANY COUNTRY CREATION SH			TECHNOLOGY				
	SHAREHOLDING	Electro	Electrolyzer		Distribution		
	_	Alk.(1)	PEM				
¹ nel•	(1927	Listed on Oslo Stock Exchange	✓	✓	✓	✓
2 HYDROG(E)NICS	•	1995	Listed on NASDAQ and Toronto Stock Exchange	✓	✓	✓	✓
3 McPhy Discrete State Page 19	0	2008	Listed on Euronext (Bpifrance, Emertec, Sofinnova)	✓	✓	×	✓
4 electro	0	2001	• Listed on Euronext	✓	×	✓	×
5 ITM POWER		2001	• Listed on LSE	×	✓	✓	✓
6 TELEDYNE ENERGY SYSTEMS, INC. A Telebras Technologic Company	-	1968	Listed on NASDAQ	✓	×	✓	✓
7 AREVA H ₂ Gen	0	2014	Areva, ADEME, Smart Energies	×	✓	×	
8 SIEMENS	(a)	1995	• Siemens	×	✓	×	×
9 TKUCE	(a)	2015	JV (De Nora & Thyssen Industrial Solutions)	✓	×	×	×
10	•	1996	• CSHIC ⁽³⁾	✓	×	×	×
11 R TryDus	0	2000	• n.a.	✓	×	×	×
12 @idroonergy	0	1987	• n.a.	✓	×	×	×

McPhy, a leader in Hydrogen uniquely positioned to benefit from the strong market momentum of the energy transition

An unrivalled know-how in Hydrogen's core markets



The only player worldwide being able to support its clients with innovative solutions as they build up scale

A one-stop-shop solution provider covering all main Hydrogen applications



Thank you

