

 Press release

Today, in Hanover, McPhy is presenting its large-scale electrolysis platforms, for very large low-carbon hydrogen production for use in the industry and heavy transport sectors

- “Augmented McLyzer”: a genuine technological breakthrough, allowing McPhy to support its clients as they build up scale
- Modular architecture with capacities of 4, 20, 100 MW and more
- New generation electrolyzers: doubling the amount of hydrogen produced, while combining high energy efficiency, reduced footprint and drastic improvement of competitiveness
- Confirmation of McPhy’s technological leadership
- Technology already selected by leading industrial companies

La Motte Fanjas, 23 April 2018, 5:45 p.m. – McPhy (Euronext Paris Compartment C: MCPHY, FR0011742329) specialist in equipment for the production, storage and distribution of hydrogen, is presenting today at the Hanover tradeshow its new generation of high-energy efficiency electrolyzers. This equipment is integrated into large-scale platforms (4, 20, 100 MW and more), designed to produce low-carbon hydrogen in the large quantity needed in the industry and heavy transport sectors.



By bringing to market the only alkaline electrolyzers offering this level of performance, McPhy is taking the technological lead in its sector, with an increasingly efficient and competitive product range.”

Pascal Mauberger, McPhy’s Chairman and Chief Executive Officer, made the following comments: *“McPhy is strongly committed to providing companies in the energy, transport and industry sectors with the leading-edge technology they need to leave fossil fuels behind. We are delighted to announce a major technological advance and the launch of our “Augmented McLyzer” range, that enable us to support our clients as they build up scale: producing hydrogen on a large scale and at a competitive price, thereby helping to meet the challenge of transitioning to a low-carbon economy. By bringing to market the only alkaline electrolyzers offering this level of performance, McPhy is taking the technological lead in its sector, with an increasingly efficient and competitive product range.”*

A genuine revolution in the electrolysis field

KEY FIGURES OF OUR 100 MW PLATFORM

25 modules of 4 MW

Same architecture concept than the 20 MW cluster

A total footprint below 4 500 m²

20 000 Nm³/h of hydrogen, more than 42 tons per day

30 bar: high pressure production

Fast dynamic response time

High energy efficiency

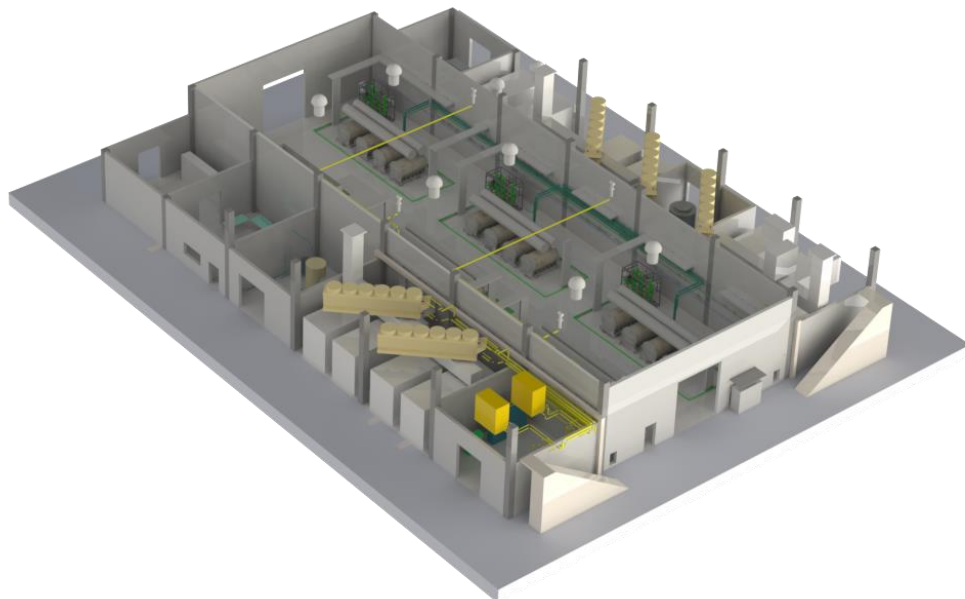
“Augmented McLyzer” is a genuine technological breakthrough based on a modular architecture allowing capacities of 4, 20, 100 MW and more, thereby enabling McPhy to support its clients as they build up scale.

The electrolyzers feature the latest developments in electrolysis technology. The unique combination between De Nora’s advanced electrodes and McPhy’s high pressure (30-bar) electrolysis technology allows to double the amount of hydrogen produced by the electrolysis cells, with a significant increase of energy efficiency. Density has been more than doubled, so that 20 MW of capacity (*see below*) – i.e. more than 8.5 tons of clean hydrogen per day – can be installed in less than 900 m², from high-voltage power to pure hydrogen delivery.

The new multi MW architecture presented today integrates these augmented electrolysis cells, with the same stack size, meeting the needs of industrialists that want to produce hydrogen on a large-scale using electricity, at a competitive cost compared with polluting technologies.

McPhy electrolyzers are designed to be used in automatic mode and to require little maintenance. They are also known for their very fast response time and their durability.

McPhy is now starting large-scale production of these high-density stacks for the growing needs of the energy, industry and transport sectors.



20 MW Cluster: high pressure production (30 bar), hydrogen production: 4 000 Nm³/h, compact footprint < 900 m²



A technology already selected by leading industrial companies

More and more, major industrial companies from chemical, refinery, steel or other industrial sectors, are engaged in developing clean manufacturing to contribute to a new low-carbon industry era. Water electrolysis is a competitive and attractive strategic technology to reconcile productivity, competitiveness and social responsibility.

Leading industrial companies have already selected the innovative multi MW electrolyzer platform developed by McPhy. This platform enables them to deliver hydrogen at 30 bar, with high energy efficiency, and can contribute to grid services.



From April 23rd to 27th, come and visit us Hall 27, stand C70

Free invitation to the fair (pre-registration is compulsory):

<https://www.hannovermesse.de/ticketregistrierung?awkk2>

& be part of our conferences:

| Tuesday 24 April | Wednesday 25 April | Wednesday 25 April |
|------------------|--|---|
| 3:00 p.m. | 2:00 to 2:20 p.m. | 2:40 to 3:00 p.m. |
| Technical Forum | Technical Forum | Public Forum |
| “Elevator pitch” | “Breakthrough innovation in water alkaline electrolysis and use in large 20/100 MW platform” | “Strategy to scale up and develop hydrogen market and technologies” |

Upcoming financial communication

Results for first-half 2018, 26th July 2018

About McPhy

In the framework of the energy transition, and as a leading supplier of hydrogen production, storage and distribution equipment, McPhy contributes to the deployment of clean hydrogen throughout the world.

Thanks to its wide range of products and services dedicated to the hydrogen energy, zero emission mobility and industrial hydrogen markets, McPhy provides turnkey solutions to its clients. These solutions are tailored to our client applications: renewable energy surplus storage and valorization, fuel cell car refueling, raw material for industrial sites.

As a designer, manufacturer and integrator of hydrogen equipment since 2008, McPhy has three development, engineering and production units based in Europe (France, Italy, Germany).

The company’s international subsidiaries ensure a global sales coverage of McPhy’s innovative hydrogen solutions.

McPhy is listed on NYSE Euronext Paris (Segment C, ISIN code: FR0011742329; ticker: MCPHY).



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