

 **Press release**

McPhy announces with its technological partner De Nora a long-term supply agreement of advanced electrode packages

- Through the introduction of the proprietary electrodes of De Nora inside the high-pressure water electrolysis of McPhy, the quantity of hydrogen produced doubles with the same stack size and specific energy consumption.
- An unrivalled electrolysis platform offering key benefits for clients: high energy efficiency, reduced foot print, drastic improvement of competitiveness.
- McPhy can now respond to the different needs of Industry, Transportation and Energy sectors with systems ranging from few MW up to 100 MW and over.
- This new generation of alkaline water electrolysis has already been selected by major industrial players.

La Motte-Fanjas, April 17, 2018 - 5:45pm - McPhy (Euronext Paris Compartment C: MCPHY, FR0011742329) a specialist in hydrogen production, storage and distribution equipment, announces that it has signed with its technological partner De Nora an exclusive supply agreement of advanced electrode packages.

Under the frame of the joint development agreement signed in 2015, McPhy and De Nora have equipped the high pressure alkaline water electrolysis process of McPhy with advanced electrodes packages engineered by De Nora and successfully validated a new generation of alkaline water electrolysis.

The new product line is now ready to be deployed up to very large scale and has already been selected by major industrial players.

This cutting-edge electrolysis technology offers unrivalled benefits to clients:

- High power efficiency with operating current density up to 10KA
- Fast dynamic response time
- High pressure production
- Costs competitive with alternative solutions for large scale units
- Drastic footprint reduction
- Very large electrolysis platforms: 20 MW to 100 MW and over

This new generation of electrolyzers will be unveiled at the Hanover's Fair of the 23th-27th April.



We demonstrate our commitment to stay at the cutting edge of the hydrogen technology and to meet the market needs.

Pascal Mauberger, McPhy’s Chairman and Chief Executive Officer, stated: *“In the very favorable context of the massive deployment of hydrogen, we are delighted to announce the launch of this new generation of electrolyzers thanks to our technological partnership with De Nora. We demonstrate our commitment to stay at the cutting edge of the hydrogen technology and to meet the markets needs for more efficient, competitive and environmental friendly electrolyzers.*

This contributes to reinforce our competitive advantage. Our technologies and industrial infrastructure are ready for the “scaling up” that was predicted in the study conducted by the Hydrogen Council.”¹

“The unparalleled expertise and market position of De Nora in industrial electrochemistry, backed by our strong focus on R&D, together with the excellent collaboration established with McPhy has been the right springboard for developing a solution with unique features that represents a key milestone in innovation of alkaline water electrolysis. It improves significantly the value proposition to clients increasing the technological content while lowering operating costs. After three years of development, we demonstrate our capacity to accelerate the pace of innovation by launching ready-to-use products in line with clients’ expectations. Our factories are ready to manufacture large quantities of electrodes for water electrolysis and are ready for the hydrogen economy revolution” comments Luca Buonerba, De Nora’s Chief Marketing & Business Development Officer.

Come and visit us at the Hannover Messe, hall 27 stand C70, to discover in “avant premiere” our augmented electrolysis technology.

Upcoming financial communication

Results for first-half 2018, 26th July 2018

About De Nora

De Nora is an Italian multinational leader in sustainable technologies, that offers energy saving products and water treatment solutions. Globally De Nora is the pre-eminent provider of electrodes for electrochemical processes for Chlorine & Caustic, Electronics & Surface Finishing, Pool Electrochlorination and Energy sectors. It serves clients in 119 countries and has a physical presence in 11 countries worldwide with 19 offices, 12 manufacturing facilities, and three research & development centers in Italy, the USA and Japan. The Group intellectual property portfolio currently contains 355 patent families with more than 3,000 territorial extensions.

www.denora.com

¹ « [Hydrogen, scaling up](#) », The Hydrogen Council, Nov. 2017



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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