

Delfzijl Joint development of green Water Electrolysis at Large-Scale

Fuel Cells and Hydrogen Joint Undertaking (FCH JU) Grant Agreement No. 826089

Deliverable 9.8: Public Event at the Start of the Project



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Acknowledgments

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INTRODUCTION

The Djewels project officially commenced on the 1st of January 2020. At the time it was decided together with the FCH JU that a physical public event as such would not be necessary and perhaps somewhat beyond the point. We therefore agreed that the consortium partners would instead send out press releases to announce the project and its start. These press releases are included in the Annex of this document. This thereby constitutes Deliverable 9.8.

ANNEX – PRESS RELEASES

Media release

Nouryon-led consortium wins EU backing for pioneering green hydrogen project

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22 Jan 2020 - News

A consortium comprising Nouryon, Gasunie and four other partners will receive an €11-million European grant towards their proposed green hydrogen project in Delfzijl, the Netherlands. The project is a front-runner among several hydrogen initiatives aimed at cutting carbon emissions and will be a significant milestone in the transition to a more sustainable, circular economy, the companies say.

The funding is granted by the Fuel Cells and Hydrogen Joint Undertaking (FCH-JU), a partnership of the European Commission and industry that supports the development of innovative hydrogen technologies. The 20-megawatt (MW) electrolyzer, to be owned and operated by Nouryon and Gasunie, would be the first of its kind to be implemented in Europe on this scale.

The other four partners involved are: McPhy, which will provide its innovative alkaline electrolysis technology to convert renewable electricity into 3,000 tons of green hydrogen per year; BioMCN, which will combine the hydrogen with CO_2 from other processes to produce renewable methanol, reducing CO_2 emissions by up to 27,000 tons per year; DeNora, a producer of electrodes, a key component of the electrolysis technology; and sustainable energy consultant Hinicio.

The project is also supported by an additional €5 million in subsidies from Waddenfonds, a fund that invests in projects in the northern Netherlands.

Knut Schwalenberg, President Industrial Chemicals at Nouryon, said: "This project will be a stepping-stone for the circular economy. With the support of the EU and the region and backed by an experienced technology supplier and customer agreements, we are ready to move to the next phase of implementing Europe's first large-scale hydrogen plant in support of a more sustainable future."

Bart Biebuyck, Executive Director FCH-JU, added: "The FCH JU supports the development of high-performance electrolyzers by European industry that can operate dynamically on renewable energy, helping to balance the electricity grid. Scaling up in this field is key for sustainable industry, transport and buildings and this project is a firm step in moving towards electrolysis of hundreds of megawatts or even gigawatts."

Nouryon and Gasunie plan to take a final investment decision for the plant in 2020. In parallel, the two companies are studying options to increase the plant's electrolyzer capacity from 20 MW to 60 MW to make green hydrogen to produce sustainable jet fuel in a project with another group of partners.

Ulco Vermeulen, member of the Executive Board and Director Participations & Business Development at Gasunie, said: "Scaling up is the keyword here. From our 1 MW electrolysis project Hystock, via this 20 MW electrolysis installation in Delfzijl, towards gigawatts in 2030. Gas infrastructure will play a facilitating role in the energy transition as we will be transporting energy carriers, such as hydrogen, increasingly through our pipelines."

Laurent Carme, CEO of McPhy, added: "We are proud of the trust we received from two such major industrial groups. The size and scope of this project, as well as its deep integration into our customers' processes, represent a major step change for McPhy and the global hydrogen market. This will boost the rise of a clean, secure and cost-competitive hydrogen ecosystem."

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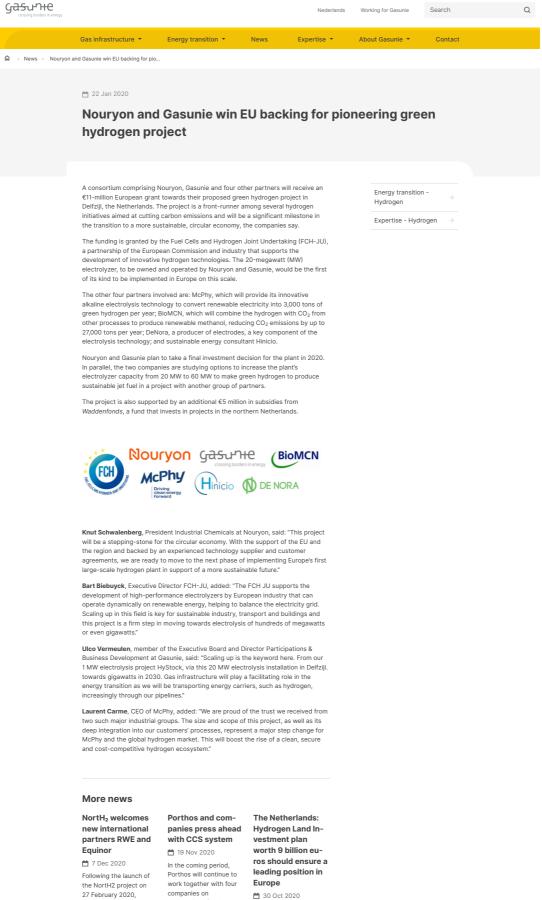


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🛗 30 Oct 2020

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January 22 2020 • NEWS

De Nora to supply electrodes to the largest **GREEN HYDROGEN plant in Europe**

Milan—January 22, 2020 —The project initiated by Nouryon and Gasunie will realize in Delfzijl, the Netherland, the largest ZERO -CARBON HYDROGEN PLANT in Europe, with a production capacity of 3,000 ton/year (20 MW). GREEN HYDROGEN will be deployed for the decarbonization of the industry sector reducing by 27,000 ton/year CO₂ emission.



Hydrogen production is based on McPhy innovative alkaline water electrolysis technology "Augmented McLyzer", specifically designed for large scale installations and equipped with De Nora special electrodes.

De Nora "electrodic package" installed in McPhy electrolyzer allows generation of hydrogen with the lowest TCO - Total Cost of Ownership - through a substantial reduction of the overall plant footprint (maximizing the operating current density) and the optimization of the total power consumption (increasing efficiency and operating pressure), while, at the same time, having a low cost of the electrolyzer.

Luca Buonerba, De Nora's Chief Marketing & Business Development Officer states: "This is the first installation of our latest generation of advanced electrode package for water electrolysis.

We are happy that our continuous efforts to achieve better performances are shortening the roadmap towards a sustainable solution for the decarbonization and the energy transitions.

Our large footprint is already set up to serve all water electrolysis manufacturer with advanced solution in the quantities projected by all the latest studies.

I'm excited that this project is finally starting and what we anticipated is becoming a reality: The Energy Transition is happening NOW!!



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Hinicio is a key partner within "Djewels": pioneering the European renewable eFuels market created by RED2

🛛 January 23, 2020 🛛 🛆 Carlos Lopez 🛛 🗅 Uncategorized

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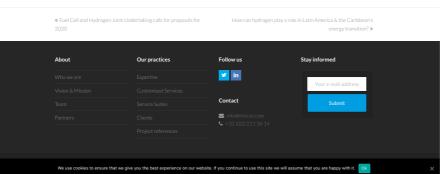


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