



Project supported by the Clean Hydrogen Partnership



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## HyNetherlands selected CertifHy™ for a RFNBO certification pilot of its e-methanol production

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### CertifHy™ assists H<sub>2</sub> project developers in preparing for their future certification needs

The « Fit for 55 » package and the REPowerEU plan announced ambitious targets for the production of renewable hydrogen and for the use of Renewable Fuels of Non-Biological Origin (RFNBOs) in the industrial and transport sector by 2030.

For producers, this means there is a growing market for RFNBOs (including hydrogen and derivatives) that will need to meet certain requirements to count towards compliance targets. These requirements and criteria are set out in RED II and its associated upcoming Delegated Acts.

On the one hand, CertifHy™ is developing a Voluntary Scheme that sets out the rules and criteria that RFNBO-producing plants will have to meet to certify their production according to REDII. On the other hand, to ensure access to the compliance market, it is essential that H<sub>2</sub> project developers understand whether or not their existing or planned processes and plants are compliant with requirements from REDII and also understand any potential gaps, including in the production processes, supply chain, feedstocks in view of these requirements.

CertifHy™ is therefore running certification pilots according to its draft Voluntary Scheme. The pilots are run in collaboration with an auditor recognised by CertifHy™ and are relevant for plants producing RFNBO & derivatives within Europe or outside Europe for the European import market and at different stages of maturity.

## The certification pilot is a concrete way of experiencing RED II RFNBO compliance

There is concrete value to extract from a certification pilot according to CertifHy™'s scheme on several fronts:

- Get clarity on the regulatory requirements to demonstrate RFNBO compliance and transparency on areas that are in discussion at EU level
- Identification of the necessary documents, plans, data and measurement inputs for the auditing phase
- Get your teams ready for an actual certification audit by going through an audit exercise with a recognized auditor such as TÜV SÜD
- Identify any gaps to reach compliance and actionable recommendations to address them. These might concern plant set up, reporting requirements, interpretation of certain requirements.

## HyNetherlands, an e-methanol project for the industry and transport sector

Launched in 2019, the HyNetherlands' project long term vision is to increasingly contribute to the decarbonization of industrial and transportation sectors in the region, with plans to scale up renewable hydrogen production starting with a capacity of 100MW in 2025 ("first phase") to 1.85 GW in the early 2030s. For the first phase, ENGIE is working alongside OCI, Europe's largest methanol producer, and EEW, a leading company in the production of industrial steam, heat, electricity and in the future also biogenic CO<sub>2</sub> from the thermal recovery of waste, to develop one of the first large-scale industrial value chains in Europe to produce e-methanol.

## Certification pilot: the example of HyNetherlands

CertifHy™ has run a certification pilot for the HyNetherlands plant. In collaboration with TÜV SÜD, our recognized auditor, a certification audit exercise was carried out, based on the plant set-up and processes for the production of e-methanol. The audit was run according to the CertifHy™ EU Voluntary Scheme criteria to assess whether the plans and processes (pre-operational phase) could be considered RFNBO compliant as per REDII and Delegated Acts.

All parties along the e-methanol supply chain (ENGIE, EEW, OCI) were audited according to the CertifHy™ scheme documents, which meant specific recommendations could be made.

*"Certification of renewable-based hydrogen is key to ensure product qualification, while growing parallelly the maturity of infrastructure projects. The process HyNetherlands went through, jointly with the partners, strongly increased its ability towards effectively delivering certified products to customers once legislation is in place." Gregory Bartholomé, Project Manager HyNetherlands*

*"This certification process will help us ensure circularity by using biogenic CO2 from non-recyclable waste to contribute to achieving renewable energy targets as set by the European Union with the production of renewable fuels." Bernard Kemper, CEO EEW Energy from Waste GmbH, 100% shareholder of EEW Energy from Waste Delfzijl B.V.*

*"With the CertifHy™ EU RFNBO scheme soon to be submitted to the European Commission, pilot projects such as HyNetherlands are a real win-win solution in an uncertain regulatory framework. Developers can increase the maturity of their projects towards final investment decisions and CertifHy™ gains even more practical experience to supplement its long standing expertise with hydrogen certification." Matthieu Boisson, CertifHy™ project coordinator.*

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## About CertifHy™

CertifHy™ has been initiated at the request of the European Commission and is financed by the Clean Hydrogen Partnership and its predecessors since 2014. CertifHy™ is conducted by the CertifHy™ Consortium, which is led by HINICIO and composed of GREXEL, Ludwig-Bölkow-Systemtechnik (LBST), AIB (Association of Issuing Bodies), CEA (Commissariat à l'énergie atomique et aux énergies alternatives) and TÜV SÜD.

## About Engie

We are a global reference group in low-carbon energy and services. Together with our 101'500 employees, customers, partners and stakeholders, we are committed every day to accelerating the transition to a carbon-neutral world through more energy-efficient and environmentally friendly solutions. Guided by our raison d'être, we reconcile economic performance with positive impact on people and the planet based on our core businesses (gas, renewable energies, services) to offer competitive solutions to our customers.

Turnover in 2021: €57.9 billion. Listed in Paris and Brussels (ENGI), the Group is represented in the main financial (CAC 40, Euronext 100, FTSE Eurotop 100, MSCI Europe) and extra-financial (DJSI World, DJSI Europe, Euronext Vigeo Eiris - Eurozone 120/ Europe 120/ France 20, MSCI EMU ESG screened, MSCI EUROPE ESG Universal Select, Stoxx Europe 600 ESG, and Stoxx Global 1800 ESG).

## About EEW

EEW Energy from Waste GmbH (EEW) is one of the leading companies in Europe in the field of thermal recovery of household and commercial waste as well as sewage sludge. Already today, EEW is making an important contribution towards protecting the climate and resources and is a cornerstone of the circular economy. In the 17 modern facilities currently operating within our corporate group, we are able to process around five million tons of waste per year. During this process, our 1,250 employees reduce the volume significantly, sanitize the waste, and recycle scrap metals and agglomerates. Moreover, we make efficient use of the energy contained in the waste and generate steam for industrial plants, district heating for residential areas, and environmentally sustainable power for approximately 720,000 households.

## About OCI

OCI is a leading global producer and distributor of nitrogen products providing sustainable solutions to agricultural and industrial customers around the world. OCI's production capacity spans four continents and comprises approximately 16.1 million metric tons per year of nitrogen fertilisers, methanol, diesel exhaust fluid, melamine, and other nitrogen products. Currently, OCI employs approximately 3,600 people and is listed on Euronext in Amsterdam under the name 'OCI'.

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