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Veolia & RIFT join forces to decarbonise energy intensive industries with Iron Fuel Technology™



“Iron fuel technology enters a new chapter as it moves closer to the commercial application of its technology and thus closer to decarbonizing energy-intensive industries.”

Renewable Iron Fuel Technology B.V. ("RIFT") and Veolia Industriediensten B.V. ("Veolia") have joined forces to build the world's first commercial 5 MW pilot plant using Iron Fuel Technology™, which will be operational in 2023.

The signed M.O.U. between both parties, comes after successful pilot projects carried out in recent years.



Per, **Mark Verhagen, co-founder and CEO of RIFT**: *“We currently have basic commercial designs available. Now, the priority is to test these designs in practice step by step, so that commercial implementation becomes a reality.”*

This objective will be achieved in the course of 2022 with the construction and operation of another two pilot projects:

1. The first project has now been installed at the Connectr Lab in the KleefseWaard Industrial Park in Arnhem. Here, iron fuel is produced from the combustion product rust. In the forthcoming year, the technical performance of this regeneration plant will jointly be analysed with Veolia.
2. The second project concerns a 1 MW boiler system that will be built in Helmond, on the district heating network of Ennatuurlijk B.V. (Veolia is a shareholder in Ennatuurlijk)

Together with their partners, Veolia & RIFT will demonstrate Iron Fuel Technology for the first time in its entirety in an industrial environment on the largest scale ever. This 1 MW test boiler is comparable to heating 500 households and is representative for small industrial plants. Iron fuel is burnt in this test boiler, rendering CO₂ neutral heat and rust. The heat is used in Helmond's heat grid to provide households with heat.

Mark Verhagen, co-founder and CEO of RIFT, explains: *“To bring the potential of technology into reality, it must be demonstrated in practice. This is exactly what we are going to do with our partners.*



For this purpose, it is important that we not only demonstrate the way it operates, but also demonstrate its operation within operational and economically viable conditions.”

Lex Scheepers, co-founder and CTO of RIFT, adds: *“To achieve this, we collaborate with companies, academics and public authorities. These include Ennatuurlijk, Veolia, Iv-Industrie, Emmerson, Combustion2, TU/e, University of Antwerp, Connectr, Metalot, the Metropolitan Region of Eindhoven and OostNL. This is an essential step forward for us. These tests enable us to test its practical feasibility. We consider this technology to be crucial for making heat grids, industrial production processes and power stations sustainable, since electrification and hydrogen can only be applied to a limited degree. ”*

Hildagarde McCarville, CEO of Veolia Netherlands, explains: *“This technology can play a pivotal role for Veolia, not only in reducing CO2 emissions in our own facilities, but also in supporting our customers to reduce their carbon footprints. By upcycling the combustion product rust, we create a circular solution that has many advantages over fossil fuels: it can be stored safely, has no CO2 emissions, and generates almost no nitrogen oxide emissions. Such innovative technological developments are essential to enable the energy transition and to achieve carbon neutrality. We are very pleased to be able to collaborate with RIFT and are proud that the Netherlands will serve as Veolia’s global test and development centre for the commercial use of this technology.”*

About Veolia:

The Veolia Group wants to be a benchmark services company in the field of ecological transformation. Having nearly 230,000 employees worldwide, the Group designs and delivers ground-breaking solutions that are both useful and practical for water, waste and energy management. Through its three complementary business activities, Veolia helps to improve access to raw materials and to preserve and supplement them. In 2020, the Veolia Group provided 95 million people with drinking water and 62 million people with wastewater services, it produced nearly 43 million megawatt hours of power and processed 47 million tons of waste. Veolia Environment (Paris Euronext: VIE) posted a consolidated revenue of €28.5 billion in 2021.

www.veolia.com

Within the Netherlands, Veolia is active in the energy transition and circular economy markets. Veolia Nederland B.V. is a 20% shareholder in Ennatuurlijk B.V.

About RIFT:

Renewable Iron Fuel Technology is a spin-off of the SOLID student team at the University of Technology Eindhoven. The three former members of the SOLID student team (Mark Verhagen, Lex Scheepers and Vincent Seijger) founded the company in 2020. RIFT's mission is to decarbonize heat grids, industrial production processes and power plants worldwide using Iron Fuel Technology.

www.ironfueltechnology.com

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