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NEWS FEED

AFYREN updates environmental assessment of its biobased organic acids: Carbon footprint is 81% lower than petro-based equivalents

Roadmap for further measurement is established

AFYREN, a European pioneer in green tech, is pleased to announce a significant improvement in the environmental assessment of its products, along with a roadmap for future plans to measure the impact of its activities.

AFYREN believes in constant improvement. As the company builds its first factory to sustainably produce a family of seven organic acids from agricultural by-products, it is working hard to make its process — which imitates fermentation found in nature — even more efficient and environmentally sound.

Measurement of the footprint is a crucial part of this effort, which is why AFYREN partnered three years ago with [Sphera](#), a global leader in sustainability consulting. SPHERA conducted the first environmental study of AFYREN's products through "cradle-to-gate" Life Cycle Analysis* for the 2018-2019 period, based on pre-industrial data.

The latest LCA update, using data from 2020, gives a more complete environmental assessment of the future [biorefinery under construction](#) in Carling-Saint-Avoid. It shows that AFYREN's biobased acids have on average a carbon footprint 81% lower than equivalent petroleum-based products.

This means AFYREN's production (16,500 tons of biobased acids) will allow savings of more than 30,000 tons of greenhouse gas emissions per year. Considering the average mileage emissions of new vehicles registered in France, the emissions avoided would be equivalent to about 300 million kilometers travelled by a vehicle over one year.

AFYREN and Sphera, through the [AFTER-BIOCHEM](#) European project, will proceed with a critical review of the LCA analysis and plan further iterations to create other sustainability assessments in an effort to continually minimize the environmental impact of its products.

Read a full report on AFYREN'S work with Sphera, including details of the new metrics they are developing.

Read an abstract of the full report.

* standardized method (ISO 14040-14044)

About SPHERA

Sphera is the leading provider of Environmental, Social and Governance (ESG) performance and risk management software, data and consulting services with a focus on Environment, Health, Safety & Sustainability (EHS&S), Operational Risk Management and Product Stewardship. In combination with industry-leading software ([Corporate Sustainability Software](#) and [Product Sustainability Software](#)) and [sector-specific data](#), Sphera's [sustainability experts](#) help companies in all industries and geographic locations meet their individual sustainability and ESG goals.

About AFYREN

To meet a growing need among industries to reduce the use of petroleum derivatives in their production chain, AFYREN makes biomolecules derived from the reuse of non-food biomass. These ingredients are widely used in human and animal nutrition, flavours and fragrances, cosmetics, and fine chemicals. This production of renewable carbon, which is firmly grounded in the circular economy, uses fermentation technologies that are the result of 10 years of research and are patented worldwide. Founded in 2012 and led by Nicolas Sordet and Jérémy Pessiot, AFYREN has about 35 employees at its sites in Lyon, Clermont-Ferrand and Carling - Saint Avold. AFYREN is a winner of the Concours Mondial d'Innovation 2030 in the "Plant proteins and plant chemistry" category and was included in the French Tech 120 in 2020 and 2021. In 2018, AFYREN committed to its industrial project by creating the AFYREN NEOXY joint venture with Bpifrance's SPI fund. AFYREN NEOXY is dedicated to the first industrial production of AFYREN natural organic acids in the Grand Est region.

Find out more on afyren.com

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