

INERATEC opens ERA ONE: Europe's largest e-Fuel production plant goes into operation in Frankfurt

- **ERA ONE is the first plant in Europe to produce commercial quantities of up to 2,500 tonnes of e-Fuels per year via the Fischer-Tropsch process**
- **The project is supported by €70 million in financing commitments from the European Investment Bank and Breakthrough Energy Catalyst**
- **Additional plants at locations worldwide are being planned**

Karlsruhe/Frankfurt am Main, 3 June 2025 – The German cleantech company INERATEC today officially inaugurated ERA ONE, a Power-to-Liquid plant for the production of e-Fuels and e-Chemicals that will usher in a new era of sustainable mobility. The plant in Frankfurt-Höchst is the largest of its kind in Europe and will produce up to 2,500 tonnes of carbon-neutral e-Fuels annually. This will make commercial-scale volumes of synthetic fuels available in Europe for the first time – and marks a decisive step towards achieving the EU's 2030 and 2050 climate targets. INERATEC started operating the plant a few weeks ago.

“ERA ONE shows that climate-neutral e-Fuels are ready for the market”

“With ERA ONE, we offer a genuine solution to one of the biggest problems of our time: emissions in sectors that are hard to electrify, like aviation and shipping. Climate-neutral e-Fuels are not just technologically possible. ERA ONE shows that they are also ready for the market,” explained Tim Böltken, co-founder and CEO of INERATEC, at the grand opening ceremony, which was attended by high-ranking guests from politics, industry and science. “We are replacing fossil molecules with green molecules – and thereby making a decisive contribution to a climate-friendly future.”

Flagship project for the scaling of production technology

Kaweh Mansoori, Minister of Economic Affairs for the State of Hesse, commented on the significance of the plant in Frankfurt: “The opening of ERA ONE marks a landmark milestone for an independent European energy supply. It demonstrates the attractiveness of Hesse as a location for innovative companies. This project embodies the fusion of modern technology, ecological responsibility, and the development of new, high-quality industries.”

The modular design of INERATEC's plants makes it possible to quickly and efficiently expand production capacity. By 2030, the company plans to increase its annual production several times over with additional projects. This scaling is crucial for achieving

regulatory requirements, such as the ReFuelEU Aviation regulation, which sets binding quotas for sustainable aviation fuels.

Synthetic fuels from CO₂ and hydrogen

ERA ONE uses CO₂ from biogenic sources and green hydrogen to produce synthetic crude oil, which is then processed into sustainable aviation fuel (e-SAF), e-Diesel and other products. The two feedstocks for the new plant come directly from the Frankfurt-Höchst industrial park where it is located. The CO₂ comes from a biogas plant that recycles waste, and the hydrogen is a byproduct of chlorine production. INERATEC e-Fuels are “drop-in ready”, meaning they can be used without any modifications to existing systems, such as aircraft engines. Synthetic crude oil can be used not only to produce sustainable fuel but also base chemicals, such as in the production of sustainable plastics. Thus, the technology also contributes to the sustainable transformation of the chemical industry.

Strong financing partners underscore strategic importance

ERA ONE is being made possible by, among other things, a €70 million financing package consisting of €40 million in venture debt from the European Investment Bank (EIB) and a €30 million grant from Breakthrough Energy Catalyst. The support of these two major investors underscores the project’s strategic importance for the decarbonisation of sectors that are hard to electrify. The Environmental Innovation Programme launched by Germany’s Federal Ministry for the Environment is also providing funding for the commercial implementation of INERATEC’s technological innovation.

Other investors in INERATEC include Piva Capital, HG Ventures, TDK Ventures, Copec WIND Ventures, RockCreek, Emerald, Samsung Ventures, ENGIE New Ventures, Safran Corporate Ventures and Honda.

INERATEC is committed to defossilizing and decarbonizing the world. The company produces e-Fuels and e-Chemicals: carbon-neutral fossil fuel substitutes for use in the aviation, shipping and chemical industries. Its modular, scalable plants use renewable hydrogen and biogenic CO₂ to produce synthetic kerosene, gasoline, diesel, waxes, methanol and natural gas. The company is based in Karlsruhe, Germany, and backed by diverse international investors.

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