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Lufthansa Cargo and Kuehne+Nagel agree on exclusive partnership to promote CO₂-neutral power-to-liquid fuel

- Atmosfair opens the world's first plant for the production of synthetic PtL paraffin in the Emsland region of Lower Saxony
- Logistics companies Lufthansa Cargo and Kuehne+Nagel are among the first customers
- Annual purchase of 25,000 litres of synthetic crude oil agreed for at least five years
- Power-to-Liquid is considered a key technology for CO₂-neutral flying

The two companies Kuehne+Nagel and Lufthansa Cargo have agreed on an

exclusive partnership for the promotion and use of power-to-liquid aviation fuel. The logistics service providers have jointly committed to supporting the world's first production site for synthetic crude oil in Werlte/Emsland in Germany by purchasing the equivalent of 20 tonnes, or 25,000 litres, annually. The synthetic fuel based on it is considered to be the fuel of the future, which should further reduce the CO₂ footprint of aircraft engines in the future. The production site in Werlte is operated by the NGO atmosfair from Bonn.

"We clearly see the key to a sustainable reduction of our emissions in flight operations in the research and use of synthetic, sustainable aviation fuels. The fact that we are now pioneering power-to-liquid technology together with Kuehne+Nagel makes us particularly proud and shows once again that we are actively tackling our climate protection challenges," Dorothea von Boxberg, CEO Lufthansa Cargo, explained the strategic background to the partnership with Kuehne+Nagel .

Yngve Ruud, Member of the Management Board of Kuehne+Nagel, responsible for Air Logistics, commented: "Already now, Kuehne+Nagel customers can avoid carbon emissions of their shipments globally with our bio SAF solutions and I am delighted to see that time has come for synthetic SAF as the long-term solution for aviation. By securing the first power-to-liquid fuel production together with Lufthansa Cargo, we are sending a strong message of commitment and collaboration, inviting our industry colleagues and customers to join us in creating the low-carbon economy of the future already today."

CO₂-neutral fuels or Sustainable Aviation Fuels (SAF) are an essential pillar on the way to CO₂-neutral flying. These fuels can be produced in various ways. Until now, Lufthansa Cargo and Kuehne+Nagel have used Sustainable Aviation Fuels of biogenic origin, i.e. synthetic paraffin based on used cooking oils, for example. In the case of synthetic paraffin, which is also known as power-to-liquid fuel, the synthetic crude oil is produced from regeneratively generated electricity, water and CO₂. Because of this process, PTL-based aviation fuel is considered CO₂-neutral. The electricity-based fuels are currently still in the development stage towards industrial production, but are already considered a long-term alternative to conventional paraffin or biogenic SAF, as they are theoretically to be produced without availability limits.

Atmosfair, a non-profit climate protection organisation based in Berlin, has built its own plant for the production of so-called "syncrude". Syncrude is the alternative to fossil crude oil produced by means of power-to-liquid. This crude oil is then refined into finished Jet A1 fuel for aircraft at the Heide refinery north of Hamburg, fed into the refinery's total volume and delivered to Hamburg Airport. This first industrial plant is so far unique in Germany. Regular operation is planned by atmosfair for the first quarter of 2022.

About Kuehne+Nagel

With 74,000 employees at 1,400 locations in over 100 countries, the Kuehne+Nagel Group is one of the world's leading logistics companies. Its strong market position lies in Sea Logistics, Air Logistics, Road Logistics and Contract Logistics, with a clear focus on integrated logistics solutions.

For more information about Kuehne+Nagel's sustainable aviation fuel offering, please visit [Kuehne+Nagel SAF webpage](#).

Lufthansa Cargo AG

With a turnover of 2.8 billion euros and 6.5 billion revenue tonne-kilometres in 2020, Lufthansa Cargo is one of the world's leading companies in the transport of air freight. The company currently employs about 4,400 people worldwide. Lufthansa Cargo focuses on the airport-to-airport business. The cargo carrier serves around 300 destinations in more than 100 countries with its own fleet of freighters, the belly capacities of passenger aircraft operated by Lufthansa German Airlines, Austrian Airlines, Brussels Airlines, Eurowings Discover and SunExpress, and an extensive road feeder service network. The bulk of the cargo business is routed through Frankfurt Airport. Lufthansa Cargo aligns its corporate responsibility commitment with the sustainability goals of the United Nations (UN). Lufthansa Cargo has committed itself to anchoring five selected sustainability goals in its corporate activities and to

making a substantial contribution to achieving these goals by 2030.
Lufthansa Cargo is a wholly owned Lufthansa subsidiary of Deutsche Lufthansa AG and Lufthansa Group's logistics specialist.

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