

First commercial eFuels-for-aviation plant in Denmark on schedule for 2026 – Arcadia selects Topsoe and Sasol technology

- Arcadia eFuels selects Sasol and Topsoe as technology providers for the first commercial eFuels plant in Denmark
- The plant will be located in Vordingborg, Denmark, and will produce approx. 100 million litres per year of efuels.

Arcadia eFuels (Arcadia), a leading developer of eFuels, Sasol, a global chemicals and energy company, and Topsoe, a global leader in carbon emission reduction technologies, have signed a single license agreement for Arcadia's Vordingborg eFuels plant. The signing of the agreement represents a major milestone in maturing the project and ahead of the next major milestone being Arcadia's final investment decision.

The production of sustainable aviation fuels (SAF) is not only important for the three companies. Society is in desperate need for low carbon alternatives to a fossil-fuelled aviation industry. According to IATA – the International Aviation Transport Association – 2022 only saw around 300 million litres of SAF being produced. This compared to an estimated need of 450 billion litres per year needed for the airline sector to achieve CO2 emissions by 2050.

Once operational, the plant will deliver eFuel for the Danish and European aviation markets to help meet the European Union mandate of 1.2% RFNBO (Renewable Fuels of non-Biological Origin) or eFuels in 2030.

Amy Hebert, CEO Arcadia eFuels, said: "We're pleased to conclude this license and engineering agreement with two best in class companies acting as a single point licensor. Their commercial experience in syngas, Fischer Tropsch and refining technology development and licencing combined with Arcadia's novel engineering approach allows us speed to market. Meeting the needs of the aviation and heavy transportation industry's decarbonization efforts is of high priority for Arcadia."

Elena Scaltritti, CCO at Topsoe, said: "We're on a pathway to decarbonize aviation and other hard-to-abate sectors, and this project is a big step in the right direction. Arcadia has made great strides in very short time, reaching this milestone on their first project. This agreement emphasizes our combined commitment to a sustainable future in aviation fuel production and supports Topsoe's ambition to be the leader in low carbon solutions."



Helge Sachs, SVP of Sasol ecoFT, said: “This is a momentous occasion for us to offering the first G2L™ license, a technology which allows a pathway to accelerate the decarbonization of our industry, specifically the aviation and heavy transport industries. It is a culmination of many years of development and cooperation between two world class leading technology partners to be able to offer Arcadia and the market a combined Power to Liquid technology.”

Topsoe and Sasol’s contribution

The technology support for Arcadia marks the first single point license between Topsoe and Sasol, where the two companies will deliver their proprietary technology (G2L™), converting CO₂ and H₂ into eFuel for aviation.

The technology primarily differs from production of natural gas-based fuels in the feedstock and technology for synthesis gas production. In eFuels plants, the feedstock is carbon dioxide, water, and power. The water is converted into hydrogen by means of electrolysis and the synthesis gas is produced from carbon dioxide and hydrogen.

About Arcadia eFuels

Arcadia eFuels is committed to build facilities to produce the world’s future fuels. These net-zero carbon fuels will allow the transportation sector, namely aviation and shipping, to use efuels directly, without changes to existing engines and infrastructure. Arcadia eFuels aims to produce eFuels around the world to help meet the aviation industry’s decarbonization goals. Please visit www.arcadiaefuels.com to learn more or contact us at info@arcadiaefuels.com.

About Sasol

Sasol is a global chemicals and energy company. We harness our knowledge and expertise to integrate sophisticated technologies and processes into world-scale operating facilities. We safely and sustainably source, produce and market a range of high-quality products in 22 countries, creating value for stakeholders. Our purpose “Innovating for a better world” compels us to deliver on triple bottom line outcomes of People, Planet and Profit, responsibly and always with the intent to be a force for good. Sasol ecoFT as part of the Sasol Group, is positioned to play a leading role in the global SAF offering by Sasol’s proprietary FT Technology. With more than 70 years’ experience we leverage our proprietary technology, know-how and expertise to produce sustainable fuels and chemicals from green hydrogen and sustainable carbon sources, via the Power-to-Liquids (PtL) process. By deploying sustainable FT solutions globally, we contribute to a thriving planet, society, enterprise and innovate for a better world.

To learn more, visit <https://www.sasol.com>.

About Topsoe

Founded in 1940, Topsoe is a leading global developer and supplier of decarbonization technology, catalysts, and services for the energy transition.

Our mission is to combat climate change by helping our partners and customers achieve their decarbonization and emission-reduction targets, including those in hard-to-abate sectors such as aviation, shipping, and the production of raw materials. From carbon reduction chemicals to renewable fuels and plastic upcycling, we are uniquely positioned to aid humanity in realizing a sustainable future.

Topsoe is headquartered in Denmark, with over 2,400 employees serving customers all around the globe. To learn more, visit www.topsoe.com

