

## Carbon Neutral Fuels selects Johnson Matthey and Honeywell technologies to accelerate groundbreaking UK e-fuels project

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- Power-to-Liquid facility to produce up to 25,000 tons of sustainable aviation fuel annually

Carbon Neutral Fuels (CNF), a leading UK-based developer of sustainable e-fuels, today announced the selection of Johnson Matthey (JM) and bp's **FT CANS**<sup>™</sup> technology and Honeywell UOP's Fischer-Tropsch (FT) Unicracking process technology for its flagship Power-to-Liquid e-fuels facility in Workington, U.K.

The project, known as Project Starling, will convert captured carbon dioxide and water into synthetic kerosene (FT-SPK), which, when blended with conventional jet fuel, will produce up to 25,000 tons of sustainable aviation fuel (SAF) annually.

Construction is planned to begin in 2028, with production targeted for 2031. Project Starling represents a major step forward for the UK's e-fuels sector and is the first project in the country to evaluate the use of wastewater as a feedstock for SAF production. Johnson Matthey and bp's **FT CANS** technology converts synthesis gas derived from captured carbon dioxide into a synthetic crude oil. This intermediate product is then upgraded using Honeywell's FT Unicracking technology to produce synthetic kerosene suitable for SAF blending.

"Project Starling is central to Carbon Neutral Fuels' mission to prove that large-scale decarbonisation of aviation is both technically and economically viable," said Sophie Zienkiewicz, Co-founder of Carbon Neutral Fuels. "By working with world-class technology partners such as Honeywell and Johnson Matthey, we are building a facility capable of delivering more than 95% lifecycle emissions\* savings compared with conventional jet fuel, while helping to establish the UK as a leader in sustainable e-fuels."

The collaboration brings together complementary technologies designed to support efficient, scalable SAF production as global demand accelerates.

"Deploying **FT CANS** technology at Project Starling demonstrates how advanced process and catalyst solutions can enable the next generation of sustainable aviation fuels," said Alberto Giovanzana, Managing Director, Licensing at Johnson Matthey. "Working alongside Carbon Neutral Fuels and Honeywell highlights how collaboration across the value chain can help accelerate the transition to lower carbon aviation."

With global SAF demand projected to grow from 344 million gallons to 7.6 billion gallons over the next decade, Carbon Neutral Fuels is actively engaging with airlines, fuel suppliers and strategic partners to develop long-term offtake agreements and joint development opportunities.

“Honeywell’s FT Unicracking technology is designed to provide flexibility, efficiency and cost effective upgrading of synthetic feedstocks into high quality transportation fuels,” said Rajesh Gattupalli, President of Honeywell UOP. “We are pleased to support Carbon Neutral Fuels as it advances Project Starling and contributes to the expansion of sustainable aviation fuel production.”

*\* The carbon intensity values presented are based on the project’s latest greenhouse gas emissions calculation, which was reviewed and verified by the Department for Transport during a recent Advanced Fuels Fund stage-gate assessment. These values are benchmarked against the UK SAF Mandate’s fossil jet fuel baseline of 89 gCO<sub>2</sub>e/MJ, applied under the legally binding mandate that has been in force since January 2025.*

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### **About Carbon Neutral Fuels**

Carbon Neutral Fuels is one of Europe’s leading power-to-liquid companies, pioneering the development of sustainable efuels and building a bridge between today’s aviation needs and tomorrow’s climate considerations. The company has two key projects in development: Project Starling, the UK’s first First of a Kind Power-to-Liquid efuels facility with planned capacity of 25,000 tons of SAF annually, and ASAPMTJ, a Methanol-to-Jet project currently at preFEED stage targeting production of more than 200,000 tons of SAF per year.

For more information, visit <https://www.carbonneutralfuels.com/>.

### **About Johnson Matthey**

Johnson Matthey is a global leader in sustainable technologies, using advanced metals chemistry to support decarbonisation, emissions reduction and resource efficiency. Its technologies are widely used across the energy, chemicals and automotive sectors to enable the transition to net zero.

For more information, visit [www.matthey.com](http://www.matthey.com).

### **For media enquiries**

#### **Johnson Matthey:**

Email: [jmp@matthey.com](mailto:jmpr@matthey.com)

Telephone: +44 207 269 8001

#### **Carbon Neutral Fuels:**

Email: [izzy@carbonneutralfuels.com](mailto:izzy@carbonneutralfuels.com)