

Johnson Matthey (JM) and bp's innovative FT CANS technology successfully produces product for Fulcrum's Sierra waste-to-fuels plant

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Johnson Matthey (JM), a global leader in sustainable technologies, and bp, an international energy company, today announce that their technology has enabled Fulcrum's Sierra BioFuels Plant to successfully produce synthetic crude oil for clean transportation fuels.

Using JM and bp's FT CANS™ technology, the Sierra plant is the world's first commercial-scale plant to use household rubbish as a feedstock which would otherwise be destined for landfill.

Located outside of Reno, Nevada, it uses JM and bp's FT CANS technology to convert synthesis gas, produced from waste, into synthetic crude oil which can then be converted to fuels.

The plant will produce synthetic crude oil, which is expected to ultimately be refined to approximately 11 million gallons of renewable, low-carbon transportation fuels each year from approximately 175,000 tons of landfill waste¹.

JM and bp signed their first licence with waste-to-fuels developer Fulcrum to use their award-winning FT CANS technology in 2018².

Alberto Giovanzana, Chief Commercial Officer of Catalyst Technologies at

Johnson Matthey, said: "We've worked in partnership with bp, creating deep technology insights for more than a decade. This close collaboration has led to the significant milestone we're seeing today. The ability to convert household waste into low-cost, low carbon transportation fuel is truly innovative and is a crucial step in decarbonising transport."

Noemie Turner, VP technology development & commercialisation at bp, added:

"We're excited that commercial-scale use of our Fischer Tropsch technology built on a foundation of top-class research and development, in collaboration with our technology partner, Johnson Matthey could help support the decarbonization of the transport sector."

¹ <https://www.fulcrum-bioenergy.com/sierra-biofuels>

² <https://matthey.com/news/2018/jm-and-bp-license-waste-to-fuels-technology-to-fulcrum-bioenergy>



JM and bp have been developing FT technology together over a number of years and have collaborated over the past decade to accelerate this latest enhanced technology.

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Johnson Matthey is a global leader in sustainable technologies, catalysing the net zero transition. With over 200 years of sustained commitment to innovation and technological breakthroughs, we improve the performance, function and safety of our customers' products. Our science has a global impact in areas such as low emission transport, energy, chemical processing and making the most efficient use of the planet's natural resources. Today, about 13,000 Johnson Matthey professionals collaborate with our network of customers and partners to make a real difference to the world around us. For more information visit www.matthey.com

About bp

bp's purpose is to reimagine energy for people and our planet. It has set out an ambition to be a net zero company by 2050 or sooner and help the world get to net zero, and a strategy for delivering on that ambition. For more information, visit bp.com for further information.

For further information

Johnson Matthey:

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

Telephone: +44 207 269 8001