



Green fuel refinery teesside

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Lighthouse Green Fuels will make sustainable aviation fuel (SAF) from non-recyclable waste and/or waste biomass at the Project Site, Billingham, Stockton-on-Tees, UK.

of carbon dioxide emissions avoided per year, compared with conventional aviation fuel. Up to 750,000 tonnes with access to carbon capture and storage infrastructure

In the UK much of the waste produced by households and businesses is sent to landfill. This has a negative impact on the environment and, in our view, your waste is not being used to its full potential as a valuable feedstock. SAF is created by transforming renewable feedstock into synthetic fuel that can be blended with conventional jet fuel. This can help to reduce the carbon emissions associated with business and holiday flights.

The Lighthouse Green Fuels project will be the largest of its kind in Europe, converting over 1 million tonnes of waste and/or waste biomass into over 175 million litres of advanced SAF and approximately 30 million litres of green naphtha each year.

This is equivalent to the fuel required for 25,000 short-haul flights to Europe, or 2,500 long-haul flights to destinations such as the Americas or Australia, per year.

Reducing our carbon emissions will be a collective effort by individuals, governments, and businesses across the world. The UK government has committed to decarbonising the UK aviation industry by 2050, when it is intended that the UK will be a carbon-neutral country. As part of this commitment, the government announced a strategy for the aviation industry in 2022, known as the Jet Zero Strategy.

Global aviation services group Willis Lease Finance Corporation (WLFC) and subsidiary Willis Sustainable Fuels (UK) Limited announced plans for the plant at Dorman Point in July 2023.

The plant will produce 20 million litres of SAF a year, which has the potential to cut CO2 emissions by up to 85% when compare with traditional petrol-based aviation fuel.



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