



Lighthouse green fuels

What is the lighthouse green fuels project?

Our Lighthouse Green Fuels project in Teesside, UK, is a green fuel refinery which will convert sustainably-sourced biomass - including forest, sawmill and agricultural residues in line with the UK SAF Mandate - into SAF. A brownfield site will be transformed into the new LGF renewable fuel refinery.

Can lighthouse green fuels make long-haul flights more sustainable?

SAF must provide 65% of the required emissions reductions to reach net zero. Batteries and hydrogen aren't viable solutions for long-haul flight. Lighthouse Green Fuels will convert 1.5 million tonnes of sustainably-sourced biomass into 180 million litres of sustainable SAF each year - enough for 27,000 short-haul flights.

What is lighthouse green fuels (LGF)?

Lighthouse Green Fuels ("LGF") will process up to 1 million tonnes of nationally sourced biogenic and non-biogenic wastes and residues per year, which makes it the largest advanced SAF facility in Europe.

Who are Alfanar & lighthouse green fuels?

Backed by 28,000 staff across 24 countries, Alfanar brings five decades of proven experience - from solar and wind to digital grids and industrial systems - to deliver the UK's flagship SAF facility in Teesside. Lighthouse Green Fuels is building Europe's largest advanced SAF facility - a £2bn project on Seal Sands, Teesside.

By converting waste streams into second-generation sustainable aviation fuel using readily available feedstocks, LGF is positioned to decrease UK's reliance on imported fossil fuels, thereby significantly ...

Project location Land within the boroughs of Stockton-on-Tees and Redcar and Cleveland, Teesside. The proposed Sustainable Aviation Fuel (SAF) production site (the "Main Site") ...

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Lighthouse Green Fuels is enabling commercial-scale production of sustainable aviation fuel from sustainably-sourced biomass. Our mission is clear: to deploy proven, scalable technology ...

November 11, 2025 [Biofuels International]- Global project development, manufacturing and engineering group Alfanar has confirmed a move to a larger, more enhanced site for its Lighthouse Green Fuels ...

The Lighthouse Green Fuels project is thus established as one of the largest and most innovative in the world in the SAF sector, marking a decisive step towards the decarbonization of ...

As the UK's most advanced second-generation SAF project and the largest of its kind globally, LGF will benefit from enhanced access to key infrastructure including rail, road, and marine transport.



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Lighthouse Green Fuels will convert 1.5 million tonnes of sustainably-sourced biomass into 180 million litres of sustainable SAF each year - enough for 27,000 short-haul flights. A true drop ...

Global project developer, engineering construction and technology solutions provider, Alfanar, has confirmed that its Lighthouse Green Fuels (LGF) SAF project will move to a larger site in ...

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