



**Fulcrum BioEnergy is looking to build a Sustainable Aviation Fuel (SAF) production facility at the Essar Stanlow Manufacturing Complex in Ellesmere Port, Cheshire.**

We want to get your views as we prepare a planning application which we expect to submit to Cheshire West & Chester Council in early 2022.

Inside this newsletter you will find more information on our plans and a questionnaire where you can tell us what you think.

## **ABOUT FULCRUM BIOENERGY**

Fulcrum BioEnergy is a sustainable fuels company founded in the United States in 2007. We are pioneering the conversion of non-recyclable residual wastes into sustainable transportation fuels with a focus on the aviation sector.

We have developed and demonstrated a process, using commercially proven technology, to convert waste that would otherwise be landfilled or incinerated, into low carbon, clean liquid fuel.

We have built the world's first waste to sustainable fuel plant Sierra BioFuels just outside of Reno, Nevada in the United States. Construction is complete and fuel will be produced from this plant in 2022.

Fulcrum NorthPoint is being developed by Fulcrum BioEnergy Limited, a wholly owned subsidiary of the US parent company.

## WHAT ARE WE PLANNING?

**Fulcrum NorthPoint is an advanced low carbon fuel facility that will convert non-recyclable and residual wastes into around 100 million litres of SAF per year for use by airlines operating at UK airports.**

Each year, the facility will receive up to 600,000 tonnes of pre-processed feedstock. This feedstock is derived from Refuse Derived Fuel (RDF) which is made from household and commercial wastes. Prior to being transported to the NorthPoint site, the RDF material is processed to remove further recyclables and other unsuitable materials, before a final light processing occurs on site to ensure the correct technical specification.

Gasification technology is then used to create a synthesis gas (or 'syngas') from the processed RDF which is then cleaned to remove any impurities. The cleaned syngas enters a process where hydrocarbons are created which are then further upgraded into a low carbon, fully certified sustainable aviation fuel for use in aircraft.

## THE SITE

We are proposing to locate our first UK facility at the Essar Stanlow Manufacturing Complex in Ellesmere Port, Cheshire. The site was chosen due to its industrial nature, a skilled local workforce and existing infrastructure, including a direct pipeline to Manchester airport which can be used to transport the fuel to aircraft.

It also offers the opportunity to link into the HyNet North West carbon capture project. This could see the CO<sub>2</sub> emitted during the manufacture of SAF captured and stored, reducing the overall net carbon emissions of our fuel by up to 100% and creating a carbon neutral fuel on a lifecycle basis.



# WHAT IS SUSTAINABLE AVIATION FUEL (SAF)?

SAF is a low carbon alternative to traditional fossil derived jet fuel that can be produced from sustainable sources, such as non-recyclable residual wastes that would otherwise be incinerated or landfilled. Using SAF can reduce CO<sub>2</sub> emissions, compared to the fossil-based jet fuel it replaces over the lifecycle of the fuel and can help improve local air quality, particularly around airports.



## WHY DO WE NEED THE FACILITY?

While the ultimate aim is to fly less there will always be a need to travel by plane, be it for business or pleasure. Moving to SAF will allow the opportunity of global travel to continue whilst minimising impacts on climate change.

The development of SAF facilities in the UK is a key part of the Government's

strategy for delivering upon its legally binding commitment to net zero CO<sub>2</sub> emissions by 2050. Fulcrum NorthPoint can provide the bedrock for creating a UK 'centre of excellence' for SAF production in the North West, whilst creating green jobs for skilled workers.



## THE BENEFITS



Around 100 high value and highly skilled green jobs during operation plus around 800 jobs during construction



Potential for 100% reduction in net CO<sub>2</sub> in the future by linking to HyNet North West



Around £600m million invested



SAF can help to improve local air quality, particularly around airports, as airborne particles are reduced when compared with regular fossil-based jet fuel



Additional income for Cheshire West & Chester Council through business rates every year



Diverting significant amounts of waste from landfill every year



Reducing net CO<sub>2</sub> emissions by at least 70% compared to fossil-based jet fuel

## HOW CAN I HAVE MY SAY?

We want to get your feedback as we prepare a planning application and there are lots of ways you can join the conversation or ask any questions about the plans.

- Fill in the questionnaire attached to this newsletter and pop it in the post (its free!)
- Visit our website [www.fulcrumnorthpoint.com](http://www.fulcrumnorthpoint.com) where you can also fill in the questionnaire
- Join our live online Q&A on Thursday 13<sup>th</sup> January, 6.30-7.30pm. Find out more and register on our website
- Get in touch using the contact details on the bottom of the newsletter
- Follow us on twitter @NorthPointSAF

The consultation closes on 31<sup>st</sup> January 2022 so please send us your comments before then. Following the consultation, we plan to submit a planning application to Cheshire West & Chester Council in early 2022.

## GET IN TOUCH



[fulcrumnorthpoint.com](http://fulcrumnorthpoint.com)



Email [info@fulcrumnorthpoint.com](mailto:info@fulcrumnorthpoint.com)



Call 0800 689 1095



Post (no stamp required)  
Freeport HAVE YOUR SAY

# HAVE YOUR SAY

Please complete this questionnaire, tear off the slip, fold in half, moisten and glue together. Then just pop it in the post – no need to add a stamp! Need more space? You can write to us using the contact details on the back of the newsletter or fill the questionnaire in online. All consultation responses must be submitted by 31<sup>st</sup> January 2022.

Q1. Do you agree that we should be looking to reduce flying's impact on the environment by replacing fossil fuel with low carbon SAF alternatives?

Yes  No  Don't know

Please provide any comments here: .....

.....

Q2. What is your view on using waste that would otherwise end up in landfill or incineration to produce SAF instead? .....

.....

Q3. What are the main things we should be considering as we develop the plans for the facility?

- |   |                          |   |                          |
|---|--------------------------|---|--------------------------|
| Jobs and local investment                           | <input type="checkbox"/> | How the development looks                     | <input type="checkbox"/> |
| Preserving and enhancing local ecology and wildlife | <input type="checkbox"/> | Sustainability and climate change             | <input type="checkbox"/> |
| Transport and access                                | <input type="checkbox"/> | Diverting waste from landfill or incineration | <input type="checkbox"/> |
| Generating sustainable aviation fuel                | <input type="checkbox"/> | Other   | <input type="checkbox"/> |

Q4. Please use this space to make any general comments.....

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## ABOUT YOU

Name .....

Address .....

Email .....

Phone .....

Age Under 20  20 – 35  36 – 50  51 – 65  Over 65

This information is optional but will help us to analyse the information you have provided more effectively and enable us to keep you updated on the project in the future.

Would you like to be kept updated about the project? Yes  No

If so, please state how: Email  Post

Providing your contact details allows Font Communications Ltd, on behalf of Fulcrum BioEnergy, to assess the reach of the consultation and log responses. Should you select to be kept informed, your email address and telephone number will allow Font to keep you updated on plans for Fulcrum BioEnergy only. Copies of the feedback received may be made available, in due course, to Cheshire West & Chester Council. We will, however, request that your personal details are not placed on the public record. Your personal details will be held securely by Font Communications Ltd and Fulcrum BioEnergy in accordance with the GDPR act 2018 and will not be passed to any additional third parties.

**NORTHPOINT**   
BY FULCRUM BIOENERGY

**Freepost HAVE YOUR SAY**