

UK SAF Clearing House

Supporting the testing and qualification of sustainable aviation fuels (SAF)



FIREFLY GREEN FUELS LTD



SME



Commercialisation of
Sewage Biosolids to Jet
(SBTJ) technology



Bristol, UK

About UK SAF Clearing House

The UK SAF Clearing House is a programme funded by the Department for Transport (DfT) that provides cross-industry support for the development, testing, qualification, and production of sustainable aviation fuels.

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The UK SAF Clearing House support has been invaluable in navigating the complex ASTM process and the many stakeholders involved. Thanks to this guidance, we are now preparing to submit fuel samples for Tier 1 and Tier 2 (Phase 1) testing to qualify our new synthetic blending component for petroleum-based jet fuel.

Dr Sergio Lima
Research Director

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NEXT STEPS

Firefly aims to be in full-scale production by the end of the decade and plans to expand into other global markets shortly thereafter.

CHALLENGES

A key challenge for Firefly was the limited guidance available on the ASTM D4054 evaluation and approval process. The company required support in defining test plans for its novel fuel, Sewage Biosolids to Jet (SBTJ), and in navigating the complexities of the evaluation process.

THE SUPPORT

The UK SAF Clearing House supported Firefly at the early stages of its journey to market. Its guidance on the ASTM D4054 evaluation process, engagement with OEMs, and assistance in preparing the research report were instrumental in progressing Firefly's fuel qualification efforts.



**ASTM expert
guidance**



OEM engagement



**Fuel qualification
acceleration**

THE IMPACT

EXPERT GUIDANCE

1

Clearing House guidance was key to navigating the ASTM D4054 process and aligning with OEMs, ASTM members, and labs essential to SBC specification development.

DATA INTERPRETATION

2

Reviewing test results and sharing them with OEMs and ASTM stakeholders have been vital for building trust and showcasing progress in SBC fuel development.

ENGAGEMENT

3

Active collaboration with OEMs and the ASTM community.