Zemo Partnership

Renewable Fuels Assurance Scheme

Supporting fleet operators on their journey to net zero.

Gloria Esposito
Director of Sustainable Business



Regulatory framework low carbon fuels



UK Renewable Transport Fuel Obligation (RTFO)

All renewable fuel entering the UK road market is verified by DfT.
7% of total UK road fuel in 2025, increasing to 14.6% by 2032.



Robust UK standards

Lifecycle GHG thresholds, use of sustainable biomass feedstocks (genuine biomass waste and residues), and additional renewable electricity for hydrogen (H_2).



Retail fuel

3% biodiesel; 9% bio-ethanol.



Bulk biofuels supplied to commercial fleets

Biomethane, HVO and biodiesel blends (B10–B30).



<0.1% of renewable fuel supplied is renewable hydrogen.

Renewable Fuels Assurance Scheme

Introduced by Zemo in 2021, 60 companies approved in 7 countries

Sustainable fuel assurance

Confirms the use of sustainable biomass feedstocks or renewable electricity for renewable fuel production.

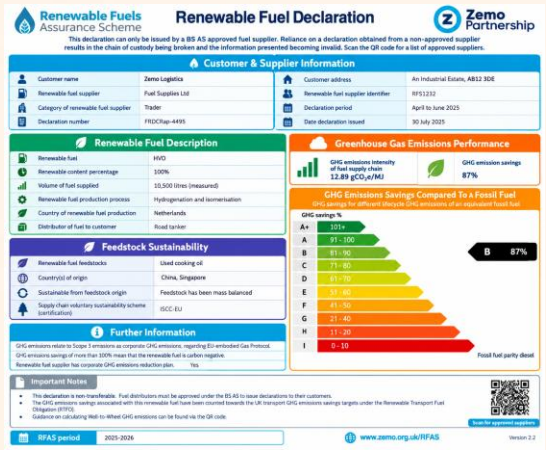
Traceability and chain of custody

Tracks regulated renewable fuel through the downstream supply chain.

Supply chain specific life cycle GHG emissions

Supports scope 3 emissions reporting and reduction claims.

Renewable Fuel Declaration



Fuel suppliers have to meet RFAS performance standards, with independent compliance verification.

How RFAS works in the UK

RTFO – Production to first UK supply

RTFO verification ends here (first UK supply)

RFAS – Downstream supply chain traceability

1 Feedstock origin



ISCC EU PoS

Sustainable feedstocks

2 Processing/ production



ISCC EU PoS

Sustainable production

3 UK trader (first supply)



ISCC EU PoS

Holds an ISCC certificate.

Fuel is RTFO verified for the first UK supply.

4 UK trader first supply



RFAS Declaration

The same UK trader is approved under RFAS for the first supply.

5 Next fuel trader



RFAS Declaration

Subsequent trader(s) approved under RFAS.

6 Final customer



RFAS Declaration

Receives RFAS Declaration.

RFAS market monitoring

HVO
(Hydrotreated Vegetable Oil)

6,800
estimated vehicles on UK roads

60
public refuelling sites

86–89%
GHG savings compared to fossil diesel

Biomethane
(Bio-CNG / Bio-LNG)

3,800
estimated vehicles on UK roads

62
public refuelling sites

83–110%
GHG savings compared to fossil diesel

Biodiesel blends
(e.g. B15 – B30)

1,700
estimated vehicles on UK roads

0
public refuelling sites

12–25%
GHG savings compared to fossil diesel

Produced from **100% biomass waste and residue feedstocks.**

Introducing RFAS Fleet

Independent assurance scheme
that verifies transport operators use of RFAS approved renewable fuels and associated GHG reduction.

Provides value to freight operators
by enabling them to pass on the GHG emission savings of low carbon fuels to their customers.

Gregory Group
First logistics company to be approved under RFAS Fleet.

Expanding shortly
to include battery electric vehicles using low carbon electricity.



RFAS Fleet Implementation

1 RFAS-approved renewable fuel



100% biomass waste and residue feedstocks

2 Allocate to customer journeys

Direct allocation



Renewable fuel used in a customer's dedicated vehicles or journeys.

Indirect allocation



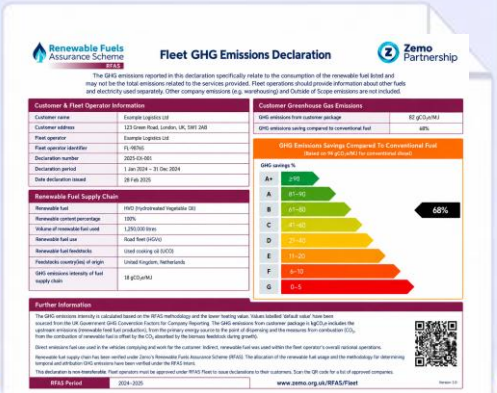
Allocating the sustainability attributes of renewable fuel to a customer journey using diesel HGV.

3 Journey WTW GHG Emissions



Calculating customer journey WTW GHG emissions and savings, using renewable fuel.

4 Fleet GHG Emissions Declaration



Fleet GHG Emissions Declaration

Renewable Fuels Assurance Scheme – RFAS

Zemo Partnership

The GHG emissions reported in this declaration specifically relate to the consumption of the renewable fuel listed and may not be the total emissions related to the services provided. Fleet operations should provide information about other fuels and electricity used separately. Other company emissions (e.g. warehousing) and Outside of Scope emissions are not included.

Customer & Fleet Operator Information	
Customer name	Example Logistics Ltd
Customer address	123 Green Road, London, UK, SW1 2AB
Fleet operator	Example Logistics Ltd
Fleet operator identifier	FL-98765
Declaration number	2025-GI-085
Declaration period	1 Jan 2024 – 31 Dec 2024
Date declaration issued	28 Feb 2025

Renewable Fuel Supply Chain	
Renewable fuel	HVO (hydrotreated vegetable oil)
Renewable content percentage	100%
Volume of renewable fuel used	1,250,000 litres
Renewable fuel use	Road fleet (HGVs)
Renewable fuel feedstocks	Used cooking oil (UCO)
Feedstocks country(ies) of origin	United Kingdom, Netherlands
GHG emissions intensity of fuel supply chain	18 gCO₂e/MJ

Customer Greenhouse Gas Emissions	
GHG emissions from customer package	82 gCO₂e/MJ
GHG emissions saving compared to conventional fuel	68%

GHG Emissions Savings Compared To Conventional Fuel (Based on 94 gCO₂e/MJ for conventional diesel)

GHG savings %

A+ ≥90 · A 81–90 · B 71–80 · C 61–70 · D 51–60 · E 31–50 · F 11–30 · G 0–10

68%

Further Information

The GHG emissions intensity is calculated based on the RFAS methodology and the lower heating value. Values labelled 'default value' have been sourced from the UK Government GHG Conversion Factors for Company Reporting. The GHG emissions from customer package is kgCO₂e excludes the upstream emissions (renewable feed fuel production), from the primary energy source to the point of dispensing and the measures from combustion CO_2, from the combustion of renewable fuel is offset by the CO_2 absorbed by the biomass feedstock during growth.

Direct emissions fuel use used in the vehicles complying and work for the customer. Indirect, renewable fuel was used within the fleet operator's overall national operations.

Renewable fuel supply chain has been verified under Zemo's Renewable Fuels Assurance Scheme (RFAS). The allocation of the renewable fuel usage and the methodology for determining temporal and attribution GHG emissions have been verified under the RFAS Intern.

This declaration is non-transferable. Fleet operators must be approved under RFAS Fleet to issue declarations to their customers. Scan the QR code for a list of approved companies.

RFAS Period	2024 - 2025
	www.zemo.org.uk/RFAS/Fleet

Version 3.0

Journey-specific WTW GHG emissions and savings

Renewable supply chain information

5 Customer Scope 3 transport and distribution



Customer receives Fleet GHG Declaration.

Assurance of GHG savings through sustainable low carbon fuels.

Three actions for Wales

1

READ MOVING TO ZERO RENEWABLE FUELS GUIDE

Practical guidance to understand renewable fuels and support lower carbon fleet decisions.

Download

2

EXPLORE APPROVED SUPPLIERS AND JOIN RFAS FLEET

Use the RFAS website to find companies approved to supply renewable fuels and explore how fleet operators can apply.

Visit

3

INTEGRATE RFAS FLEET INTO PROCUREMENT

Evidence Scope 3 emissions reductions from contractors' fleets and demonstrate renewable fuel traceability.



www.Zemo.org.uk/RFAS