FogTrap®

Sustainability Impact Report 2026

FogTrap Installation and Waste Management

Introduction

This document outlines the expected carbon reduction and environmental benefits associated with the installation and use of FogTrap units.

It aims to provide a clear understanding of the energy savings and carbon offsets achieved through the installation of effective waste management and processing systems, supporting sustainability efforts across our client base. Commercial kitchen operators must comply with various regulations related to the management and disposal of fats, oils, and grease (FOG). The FOG110 is compliant to EN 1825-1:2004 as it meets with the sizing requirements for Nominal Size 1.

The Building Regulations 2000 require commercial kitchens to install grease separators, while the Water Industry Act 1991 makes it illegal to discharge materials that could block public sewers, leading to fines or prosecution.

What is the FogTrap?

The FogTrap Interceptor is a British designed, British manufactured mobile system that effectively intercepts and traps fat, oil and grease that would normally be discharged into the drains or sewer system.

Key Components of the FogTrap™ Carbon Reduction Initiative:

- ✔ Anaerobic Digestion (Biogas Generation)
- ✔ Biodiesel Production from Recovered Oils
- ✔ Hydrotreated Vegetable Oil (HVO) from Recovered Oils

Annual Carbon Reduction Impact per FogTrap™ Unit

Each FogTrap unit undergoes a minimum of 12 waste collections per year. The total estimated annual carbon reduction and energy.

Generation per unit is as follows:

% of waste collected[14]	Energy produced/ collection (kWh)	Energy produced annually[12] (kWh)	CO_2 offest / collection ($kgCO_2e$)	CO_2 offest annually[12] ($kgCO_2e$)
Biogas (35%)	44.23[1]	530.77	9.18[2,3,11]	11.13
Biodiesel (7.5%)	17.22[4]	206.66	3.11[5,6,10]	37.27
HVO (7.5%)[13]	17.87[1]	214.50	2.83[8,9,10]	33.90
Total	**79.32**	**951.93**	**15.12**	**181.3**

Total Carbon Reduction Across All Installations

For larger-scale reporting, we can calculate the total carbon savings by multiplying the figures above by the number of FogTrap units installed across the client base.

Example Calculation (for 100 installed FogTrap™ units):

- Total CO_2 Offset from Biogas: 110.13kg x 100 units = 11 tonnes of CO_2 offset annually
- Total CO_2 Offset from Biodiesel: 37.27kg x 100 units = 3.7 tonnes of CO_2 offset annually
- Total CO_2 Offset from HVO: 33.9kg x 100 units = 3.4 tonnes of CO_2 offset annually

The carbon savings from the installation of FogTrap units are calculated solely based on the use of biofuels generated from the reprocessing of FOG, replacing fossil fuels.

These savings do not account for emissions related to the biorefinery processes or the collection and transportation of FOG. It is assumed that the biofuels produced will be used to power the refineries and vehicles involved, contributing to a closed-loop system. However, emissions from these back-end activities, such as those from the biorefinery and transport vehicles, are not included in these savings' calculation.

Conclusion

The FogTrap system not only provides an efficient way to manage food and oil waste but also contributes significantly to reducing carbon emissions. By converting waste into renewable energy and replacing fossil fuels, we support our clients' sustainability goals while delivering measurable environmental benefits.

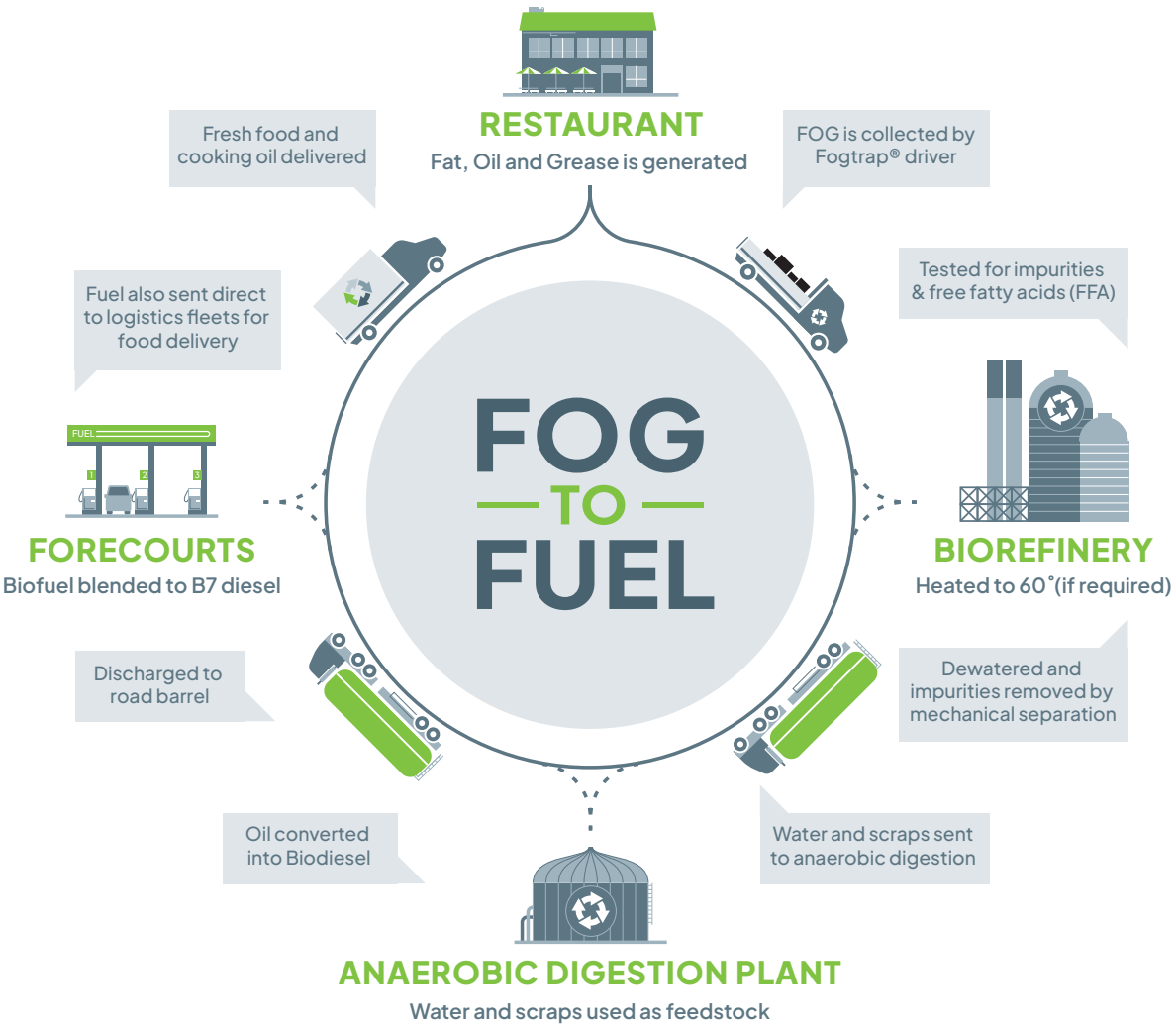
The FOG to fuel journey

As a company we recycle over 2000 tonnes of FOG waste every year, which makes us an industry leader in this process. Over 90% of the recycled FOG is as a result of our very own FogTrap system.

We are big believers in the circular economy and are always looking for innovative ways we can reuse the FOG our clients make.

To date, we've installed over 5000 units across the UK and Ireland. The more we can recycle our waste, the more we help reduce the environmental impacts of our production and consumption.

We're proud of the part we play to support the sustainability movement.



FogTrap®

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