



# Renewable energy

*Biofuels for industry and commerce*

As well as the biogas produced on-site at our anaerobic digestion facility, our recovery processes also deliver a range of high grade materials for use as industrial and commercial biofuels.

## Oils and fats

Vegetable oils and animal fats are a renewable and potentially inexhaustible source of energy – their energetic content being close to that of diesel fuels.

We can offer a full recovery service for all these oils and fats – including contaminated materials – with our screening and treatment processes ensuring a better quality product for onward use in the biofuel market.

As well as segregated oils, we can accept a variety of other materials in this category:

- ✓ *Grease and fat-trap waste*
- ✓ *Sewer material (fatbergs)*
- ✓ *Tipping for drain-jetting or gully businesses*



## Packaged fatty food materials

We also handle fatty based food materials such as sauces and ready meals where a large percentage of oil content may be present and recoverable.



## Refuse-derived fuel

As part of our ongoing commitment to maximum landfill diversion and energy recovery, all residues we are unable to recycle are processed to a certified refuse-derived fuel (RDF) specification.

We work with a number of end-users in the UK that incinerate this RDF to produce electricity.



### What is it?

**As defined by Defra** – Refuse-derived fuel (RDF) consists of residual waste that complies with the specifications in a written contract between the producer of the RDF and a permitted end-user for the thermal treatment of the waste in an energy from waste facility or a facility undertaking co-incineration such as cement and lime kilns. The written contract must include the end-user's technical specifications relating as a minimum to the calorific value, the moisture content, the form and quantity of the RDF.

## Wood biomass

We have multiple shredding and screening operations for our wood input, and can grade from A-C (see panel) or offer mixed material at various sizes for use in wood biomass boilers.

These can range from small commercial units needing chipped pallet wood to industrial power stations requiring daily/weekly bulk loads.

 **Get in touch today to discuss your requirements**



### Recycled wood grades

- Ⓐ 'Clean' recycled wood** – material produced from pallets and secondary manufacture etc.
- Ⓑ Industrial feedstock grade** – including Grade A material plus construction and demolition waste.
- Ⓒ Fuel grade** – this is made from all of the above material, plus material from municipal collections and civic amenity sites.
- Ⓓ Hazardous waste** – this includes all grades of wood including treated material such as fencing and trackwork and requires disposal at special facilities.

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