



There is no such thing as waste coffee!

George May, Director, bio-bean

Who is bio-bean?

We are the world's largest recycler of spent coffee grounds.

- UK drinks 95 million cups every day → 500,000 tonnes of spent grounds each year.
- Typically sent to landfill where the grounds emit CO₂ and methane
- Costs UK businesses £millions every year to dispose of spent grounds
- Discarded resource with residual value
- We take spent grounds from UK businesses at every scale → transform them into sustainable bio-product solutions.



What we do with the grounds

Dried grounds as sustainable raw material

- For innovative bio-based products, including bio-plastics (e.g. coffee shop trays and signage)

Natural flavouring extracts

- High-quality, sustainable ingredient solution for the food and beverage industry

Solid fuels

- Coffee Logs – a high-performance substitute for mass-imported woods and carbon-heavy coals
- Coffee-derived biomass pellets – provide industrial businesses (e.g. large-scale greenhouses) with sustainable energy generation



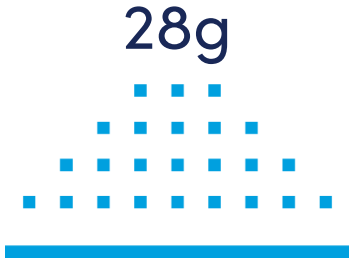


How it works

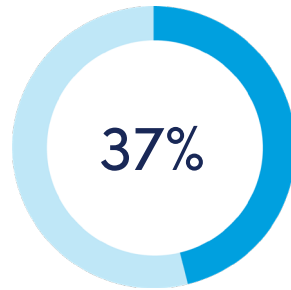
- Innovative collections models – solutions for all scales
- Clean, easy waste stream to segregate
- Typically segregated at source → minimal operational change required
- Daily collections through waste management companies
 - Bags
 - Caddies
 - 120L bins
 - Skips
 - Backhaul / bespoke solutions

Example: partnership with Costa Coffee





Every Costa barista coffee produces 28g of wet, spent coffee grounds.



Spent grounds make up 37% by weight of all Costa's waste.



To date, we've recycled 14,300+ tonnes of Costa's spent coffee grounds.



We've saved 6,000+ tonnes of CO₂e emissions: 70% increase vs Costa's previous disposal method.

"This partnership puts thousands of tonnes of Costa coffee grounds to work, transforming them from a waste material into sustainable, circular, bio-based products." – Oliver Rosevear, Costa

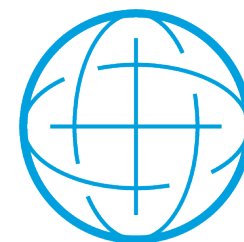
Benefits to business...



- Save money by segregating wet coffee grounds from general waste bins
- No gate fees at our recycling plant

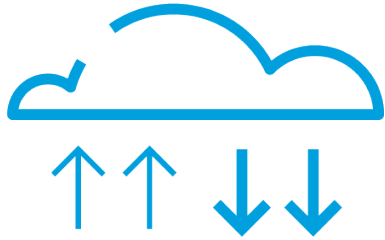


- Reduce waste to landfill
- Increase DMR rates
- Generate greater CO₂e savings
- Demonstrate commitments to reducing waste and increasing sustainable action



- Be a leader in sustainable innovation
- Contribute to the circular economy
- Engage your customers

Environmental benefits...



- Generates 80% less CO₂e emissions vs landfill
- Generates 70% less CO₂e emissions vs anaerobic digestion
- Reduces UK emissions by 6 tonnes of CO₂e every day



- Displaces the need for conventional fossil fuels and virgin wood fuels
- Provides an alternative to virgin/synthesised ingredients & raw materials



- Reduces waste to landfill
- Ensures maximum value from waste

Let's create sustainable
change, together