Recorra
Real Recycling

SCOPE 3
CARBON EMISSIONS REPORT

PROPELLERNET
START DATE: 01-JAN-2024
END DATE: 31-DEC-2024

DEFINITIONS

SCOPE 3 EMISSIONS:

Scope 3 emissions refer to emissions generated by business activities that are not owned or controlled by the business.

These are indirect emissions from a business' supply chain. In relation to waste management, a business' Scope 3 emissions are generated from the transportation and sorting of waste and recycling to their end-of-life destination or reprocessing facility.

To calculate this, we identify the vehicles visiting each site, and the type and weight of the materials collected. Vehicle emissions, plus the fuel used at our materials recovery facility, are apportioned based upon collection frequency and the weight of materials collected.

For the purpose of this report, Scope 3 emissions refer to emissions generated from waste management activities and no other Scope 3 emission.

NET AVOIDED EMISSIONS:

Net avoided emissions (NAE) are the total carbon emissions saved by using recycled materials to create new products, instead of virgin materials.

WASTE EMISSIONS:

Waste emissions refer to the carbon emissions produced from the collection, transporting and incinerating of the businesses' general waste.

UNITS OF MEASUREMENT:

All weights recorded in this report are in kilograms (kg). When referring to quantities related to emissions, i.e. Scope 3, Net avoided or Waste Emissions the unit of measurement will be kilograms of carbon dioxide equivalency (kg CO_2e).

SUMMARY

Start date: 01-JAN-2024

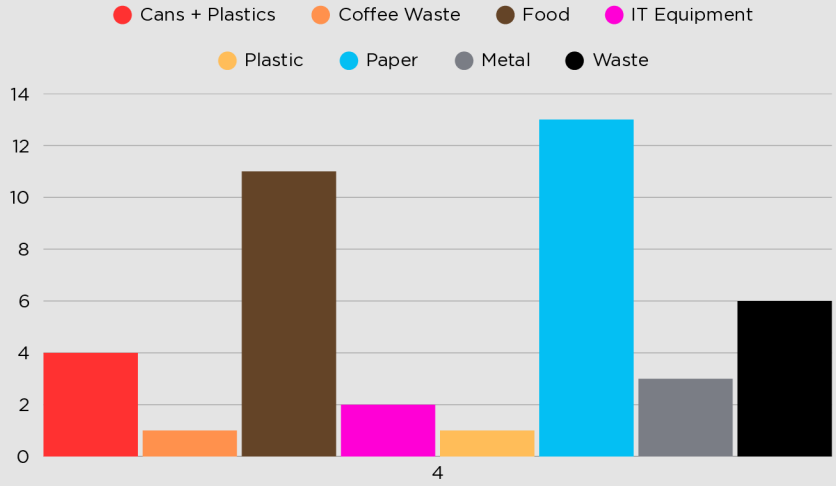
End date: 31-DEC-2024

Scope 3 emissions (kg CO_2e): 42

Net avoided emissions (kg CO_2e) : -2,023

Percentage of collections completed by electric vehicles: 20%

SCOPE 3 EMISSIONS



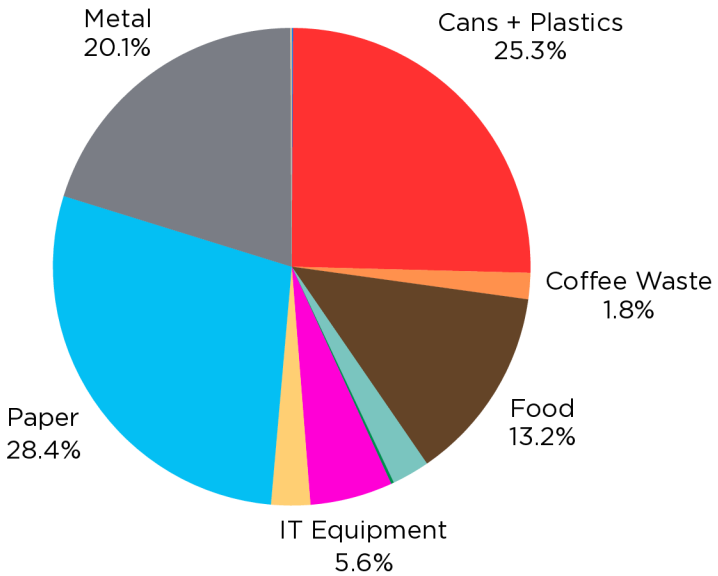
Scope 3 emissions are equivalent to:

0.1
flights to New York

258
kms in a car

Waste Management Scope 3 emissions are the transportation and sorting of waste and recycling to the end-of-life destination or reprocessing facility.

NET AVOIDED EMISSIONS



Net avoided emissions are equivalent to:

3
flights to New York

12,337
Kms in a car

Net avoided emissions (NAE) are the total carbon emissions saved from using recycled materials to create new products, instead of virgin materials.

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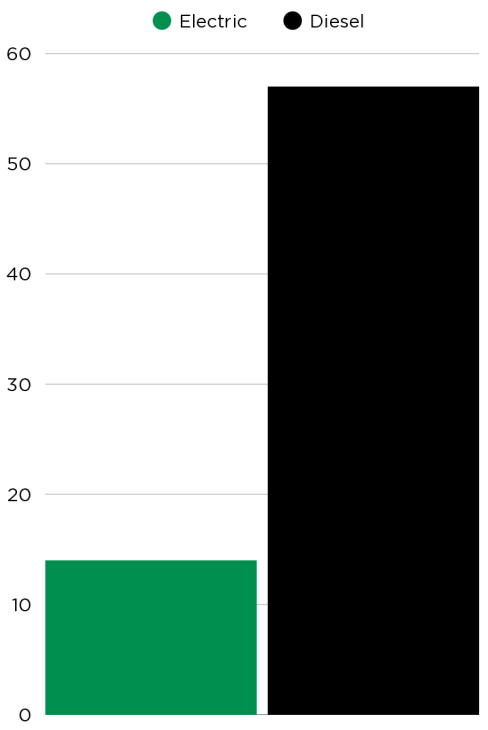
DETAILED REPORT

Start date: 01-JAN-2024
End date: 31-DEC-2024
Scope 3 emissions (kg CO_2e): 42
Net avoided emissions (kg CO_2e) : -2,023

VEHICLE ANALYSIS

14
Electric collections

57
Diesel collections



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DETAILED REPORT

Material	Disposal	Weight (kg)	Scope 3 emissions (kg CO_2e)	Net avoided emissions (kg CO_2e)
Batteries	Recycled	0	0	0
Bulky - Skip/RORO	Recycled	0	0	0
Cardboard	Recycled	4	0	-2
Cans + Plastics	Recycled	96	4	-526
Coffee Cups	Recycled	0	0	0
Coffee Waste	Recycled	90	1	-37
Cooking Oil	Recycled	0	0	0
Compostables	Composted	0	0	0
Food	Anaerobic Digestion	702	11	-275
Glass	Recycled	70	0	-53
Green Waste	Composted	0	0	0
Furniture	Recycled	10	0	-4
Hazardous Waste	Specialist	0	0	0
IT Equipment	Recycled	86	2	-116
Mixed Recycling	Recycled	0	0	0
Plastic	Recycled	55	1	-55
Paper	Recycled	1,078	13	-590
Metal	Recycled	190	3	-418
Textiles	Recycled	0	0	0
Wood	Recycled	5	0	-2
Waste	Energy from Waste	132	6	54
	Total	2,518	42	-2,023

METHODOLOGY

This report is produced using Greenhouse Gas Protocol methodologies, as outlined in 'Category 5: Waste Generated' in Operations Report.

Figures for CO_2 emissions per vehicle collection are based on biodiesel HVO litre usage, as detailed in the Department for Environment, Food and Rural Affairs (DEFRA)'s Bioenergy Conversion Factor tables:

- Vehicle emissions are apportioned by weight, based on client material weight as a percentage of total material weight carried by that vehicle type.
- Number of collections calculated based on unique job ID, by site and period.

SCOPE 3 EMISSIONS - RECORRA MATERIAL TRANSPORT & SORTING ARE:

- Total emissions from vehicle collections, apportioned by weight.
- Total emissions from sorting at the materials recycling facility (MRF) from use of diesel used in plant equipment, apportioned to client by % of material collected. The remainder of the MRF is powered by renewable energy.

NET AVOIDED EMISSIONS AFTER TRANSPORT ARE:

- Provided for information only, and are the avoided CO_2e emissions from recycled materials replacing the production of new virgin materials; or in the case of food, compostables and coffee grounds the avoided carbon emissions by sending to the preferred material destination, compared to emissions from energy-from-waste disposal.
- Avoided emission factors are predominantly sourced from the Environmental Services Association (ESA) factors 2021 (mainly derived from the Scottish Carbon Metric 2018 data). Where specific waste stream emissions are not available from this source, then a Southampton University study 'Greenhouse gas emission factors for recycling of source-separated waste materials' 2015 is used.
- The avoided emission factor benefit is then reduced by the freight emissions for transport from our MRF to our preferred material destination (using DEFRA's Freight Conversion Factors).
- Calculated as weight of recycled materials, multiplied by avoided emission factors.
- End-of-life destination (energy-from-waste, anaerobic digestion and composting) emissions (source ESA) are deducted from avoided emission benefit.
- Net negative numbers are avoided emission benefits and positive numbers are emissions from end-of-life processing.

Recorra has donated over £650,000 to our charity partners.

Plan ZHEROES zero food waste heroes

THE CHILDREN'S LITERACY CHARITY

MARINE CONSERVATION SOCIETY

TREES FOR CITIES

Friends of the Earth

FareShare fighting hunger, tackling food waste

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