



Carbon Reduction Plan

Supplier Name: Transwaste Recycling and Aggregates Limited
(Trading as Transwaste)

Publication Date: September 2022

Commitment to Achieving Net Zero

Transwaste Recycling and Aggregates Limited (Transwaste) is committed to working hard to reduce our emissions over the coming years to achieve Net Zero emissions by 2050. This is in line with the targets set by the UK Government within the Climate Change Act 2008 (2050 Target Amendment, Order 2019).

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases (GHG) that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured. Our financial year runs from 1st April to 31st March. The baseline for future GHG reporting is based on annual data for 2019/20.

Emissions are categorised by the GHG Protocol into three Scopes. The baseline year considers Scope 1 (Direct), Scope 2 (Indirect) and a limited number of Scope 3 (Indirect) emissions associated with company operations which are under our direct financial control and occur during the stated reporting period. The emission sources included in the baseline are summarised as:

Scope 1 (Direct)

- Stationary combustion – natural gas, plant machinery, refrigerants;
- Mobile combustion – plant machinery, company owned/controlled vehicles, exports.

Scope 2 (Indirect)

- Purchased grid electricity used in on-site operations.

Scope 3 (Indirect)

- Fuel Use for Business Travel;
- Fuel Use for Staff Commuting;
- Water Supply and Treatment;
- Supply of power, equipment, and materials to the waste facility site and depot site.

Scope 3 emissions are optional to include under the GHG Protocol. These are reported in the corporate audit where data is available, as this is considered best practice. It includes the subset of five Scope 3 categories as required by Procurement Policy Note (PPN) 06/21.



The majority of our emissions are associated with the treatment of waste which is reflective of our primary business operations.

An economic intensity ratio (EIR) has been selected and progress is monitored by a decreasing EIR trend. An emissions intensity ratio of 0.00033 tCO₂e per pound (£) of revenue generated has been calculated for the baseline year.

Baseline Year: 1 st April 2019 – 31 st March 2020	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	8,421
Scope 2	1,428
Scope 3 (Included Sources)	1,294 <u>Emissions by Scope 3 Category</u> 4. Upstream Transportation & Distribution: 1,206 5. Waste Generated in Operations: Not Applicable 6. Business Travel: 1.17 7. Employee Commuting: 86 9. Downstream Transportation and Distribution: Not Applicable
Total Emissions	11,143
Ratio Indicators for Emission Intensity: Baseline Year	
tCO ₂ e/£ revenue generated	0.00033
tCO ₂ e/tonne of waste handled	0.036

Current Emissions Reporting

Since the baseline year, a new ticketing system was introduced for drivers which has dramatically reduced the amount of paper we require, saving around 2.5 tCO₂e annually.

An increase in Scope 3 emissions corresponds with an increase in Scope 1 fuel use in this reporting year. The use of two diesel-powered generators on site was required to cope with production demand following the Coronavirus pandemic, and we have also expanded the site which has increased overall emissions since the baseline.



A decreasing EIR trend in emissions intensity indicates that we are becoming more efficient compared to the baseline despite our recent site expansion. This has largely been attributed to the changes to working practices that were implemented in 2020. However, the processing of waste in this reporting year is more emissions intensive than the baseline (tCO₂e/tonne) which is likely to be a direct result of the increased fuel consumption.

Reporting Year: 1st April 2021 – 31st March 2022	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	11,250
Scope 2	1,229
Scope 3 (Included Sources)	1,669
	<u>Emissions by Scope 3 Category</u>
	4. Upstream Transportation & Distribution: 1,571
	5. Waste Generated in Operations: Not Applicable
	6. Business Travel: 1.33
	7. Employee Commuting: 96
	9. Downstream Transportation and Distribution: Not Applicable
Total Emissions	14,148
Ratio Indicators for Emission Intensity: Reporting Year	
tCO ₂ e/£ revenue generated	0.0031
tCO ₂ e/tonne of waste handled	0.045

Emissions Reduction Targets

Transwaste has no previous emissions reduction commitment and this is our first carbon footprint. Detailed findings are reported in the separate audit report for financial year 2021/22.

In order to continue progress to achieving Net Zero, we have adopted the following carbon reduction targets:

- 20 % reduction in Scope 1 emissions by 2030.
- 20 % reduction in Scope 2 emissions by 2030.
- Committed to working closely with our Supply Chains to reduce Scope 3 emissions by 2050.



Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2019/20 baseline. The carbon emission reduction achieved by these schemes equate to -2.5 tCO₂e, a 46%ge reduction against the 2019/20 baseline and the measures will be in effect when performing the contract.

- We have maintained ISO14001 certification to reduce our environmental impact;
- Journeys undertaken in our vehicle fleet are all optimised to reduce carbon emissions. WEBFLEET allows the Transport Manager to monitor fuel usage, engine idling, etc, and identify driving style issues which may need remedying through driver training, with subsequent environmental impact reductions;
- Drivers now have access to a tablet system for job ticketing which has significantly reduced paper consumption and associated emissions for material use;
- An office refit was completed in 2021, with energy efficient Light Emitting Diode (LED) lighting installed on site and new energy efficient Information Technology (IT) equipment purchased to reduce emissions from energy consumption in site offices;
- We have a policy to utilise local contractors as far as possible to reduce Scope 3 emissions from freight transport upstream and downstream in our Supply Chain.

We are committed to reducing the environmental impact of our operations and are currently reviewing potential options for ongoing action to implement appropriate initiatives, in line with the Greenhouse Gas Hierarchy, that will reduce our carbon footprint. In the future we hope to implement further measures such as:

- A 3 MW wind turbine is under construction and planning is in place for further turbines to substitute reliance on fossil fuels. This third wind turbine will produce power directly for the site and is estimated to provide approximately half of the site's energy requirement once operational;
- We plan to investigate substituting reliance on on-site diesel generators for power generation with mobile renewable energy systems at specific site locations where fuel use is greatest to meet peak demands;
- Where appropriate technology is available and viable, we may be able to substitute plant machinery with electric-powered or low carbon alternatives to limit the use of fossil fuels and thus reduce GHG emissions from these sources;
- Future natural gas consumption will be reduced as three further wood burning biomass boilers are being installed at the Transwaste part of the site to drive cooling systems for the sheds to manage odour emissions;
- A dry Anaerobic Digestion (AD) facility is due for completion in 2022. This will be a flexible system, and gas produced will be used to generate electricity or for road transport. An options evaluation is currently underway for operating a gas-run fleet. It is also planned for the on-site gas boilers to be fed by digestate from the AD facility.

Transwaste Recycling and Aggregates Limited (Trading as Transwaste).
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Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the Supplier:

A handwritten signature in black ink, consisting of a stylized 'P' followed by a series of loops and a long horizontal stroke, positioned above a dotted line.

Date: 12/09/2022

¹ <https://ghgprotocol.org/corporate-standard>

² <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

³ <https://ghgprotocol.org/standards/scope-3-standard>

