

Carbon Reduction Plan

Publication date: **May 2023**

Commitment to achieving Net Zero

Thomas Graham & Sons Ltd are committed to achieving Net Zero emissions by 2045. This is consistent with the Climate Change Act 2008.



Baseline Emissions Footprint vs Current Emissions Footprint

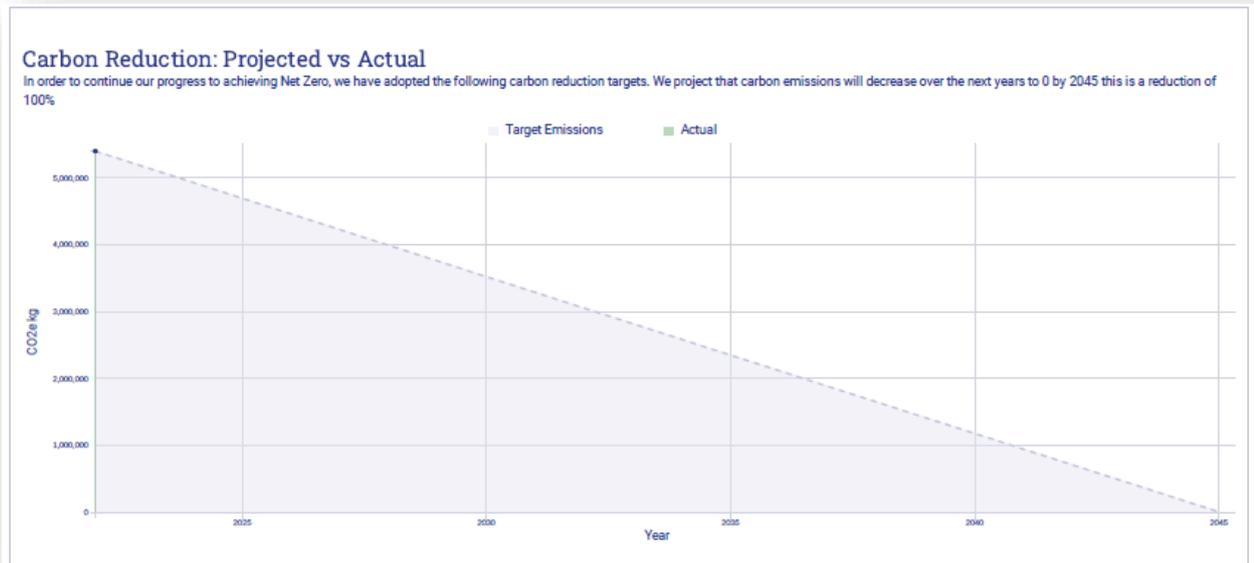
Baseline emissions are a record of the greenhouse gasses that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

Emission Scope	Baseline Emissions, 2022 (kg CO2e)	Current Emissions, 2022 (kg CO2e)
Scope 1	787,810	787,810
Sites **	62,470	62,470
Company Cars	57,627*	57,627*
Delivery Vehicles	667,712	667,712
Scope 2	106,395	106,395
Sites **	106,395	106,395
Scope 3	4,538,018	4,538,018
Home Working	812	812
Company Cars	13,885*	13,885*
Employee Owned Vehicles	3,567*	3,567*
Employee Commuting	1,289*	1,289*
Public Transport & Hire Cars	363	363
Freighting Goods	4,480,198	4,480,198
Waste Disposal	37,904	37,904
Total	5,432,222	5,432,222
** Generated from renewable sources	56,708	56,708
* includes WTT		
The Scope 3 emissions include as a minimum: <ul style="list-style-type: none"> • Upstream transportation and distribution • Waste generated in operations • Business Travel • Employee Commuting • Downstream transportation and distribution (any omissions or further information is documented in the Additional Details About our Emissions and Targets box below)		

Comments:

Baseline updated for 2022 and now include the Scope 3 emissions required, as detailed above, we are using this as baseline and reporting year.

Emissions reduction targets



Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented over the last 18 months.

- Improved consumption & export of solar PV through move to more electric fuelled machinery
- Improved efficiency of biomass installation through change to pellets
- Initiated the transition of the fleet from ICE to EV (2 vehicles during 2022)
- HGV Fleet currently 75% Euro 6 compliant – ongoing to reach 100% by 2025
- ISO 14001 Standard for Environmental Management Re-Certification
- Working with UCLAN on Carbon Footprint baseline figures
- All interior lighting now LED/PIR controlled across all four sites
- New compactor baler system in all depots for card, plastic & hessian re-cycling

Ongoing / Future Projects & Initiatives

Over the next few years we will implement further measures to continue to drive down our emissions. The list below contains some of the projects we are looking at.

- Implement a new Carbon Reduction team from volunteers throughout the company, this will improve our ability to complete the planned projects as well as developing a more informed workforce by 31/08/23
- Carbon Literacy Project – review and decide by 31/08/23
- Switch to 65% renewable purchased energy by 01/01/2027
- Extend the EV Fleet from 8 to 12, reduce CO2e emissions by 50% by 01/01/2025
- Full review of our waste process and impacts – reduce, reuse, recycle by 31/12/23
- Investigate the low carbon alternatives for diesel in the TG fleet by 31/05/24
- Further research into renewable energy sources such as wind & additional solar by 31/10/23
- Introduce a document management system to use digital processing of invoices, reduce paper consumption by 31/12/23
- Calculate water consumption/waste by 31/12/23 and agreed reduction targets
- Review and implement a new replacement plant & machinery process in order to reduce CO2e emissions by 20% by 31/12/27
- Exterior lighting to be specified and replaced in LED by 31/12/24
- Develop and implement new routing project to improve the vehicle allocation and miles per delivery by 31/12/2024
- Investigate potential options for storing unused energy generated through our renewable systems, to aid in reducing the amount of purchased electricity from the grid- options presented to board by 31/12/23

Declaration and Sign Off

This carbon reduction plan has been completed in accordance with PPN 06/21 and the 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 GHC 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 05/05/23 and signed off by the board of directors. This review will be conducted on a 6 monthly basis.

Signed on behalf of Thomas Graham & Sons Ltd:

Name	Phil Barnes	Signature	
Position	Operations Director	Date	15/05/23

The methodology used to calculate the organisation's greenhouse gas emissions in this report is based on:

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

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>