



CARBON REDUCTION PLAN

FOR



Prepared by:



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DH Ecosolutions Ltd
Carbon Emissions Report

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1 Net Zero Commitment

DH Ecosolutions Ltd have committed to a 12-month Net Zero business transformation program, delivered by social enterprise, Net Zero Nation.

One of the key outcomes of this program is being an advocate for Net Zero to inspire the wider business community to embrace it as a gateway to business growth to make their business stronger, be more competitive within the supply chains they serve and attract the future workforce to join them.

Working within a community of companies taking part in Net Zero Accelerators nationwide, they collaborate and support each other on their journey, providing peer review, creating circular and sustainable approaches to make their business more planet positive and work towards their Net Zero ambitions.

Net Zero Nation is a Scottish based social enterprise with a partner network across the United Kingdom. The mission of Net Zero Nation is to help SMEs go further and faster towards their Net Zero goals, tackling climate change. Achieved by mass mobilising SMEs on the Net Zero journey to ensure none are left behind and they fully gain the economic advantages in embracing it as a business imperative. The organisation aims to help regions and communities across the UK become fully capable in delivering the Net Zero Transition by involving all stakeholders across the public, private and academic sectors to drive decarbonisation efforts.

Net Zero Nation helps companies who need carbon certification to bid on contracts, supply chain owners and public sector bodies looking to rapidly gain carbon transparency to meet their own carbon reduction targets in procurement and investment.

DH Ecosolutions Ltd recognises the importance of making a full and lasting commitment to reducing the greenhouse gas emissions from our activities, in support of the wider commitment of the world to limit global temperature increases and the impact on the planet.

We commit to the following:

1. For our company to achieve Net Zero in line with the Science Based targets set out by the UNFCCC i.e. to achieve Net Zero no later than 2050 and target a 50% reduction in emissions by 2030.
2. To set realistic short- and long-term targets that are designed to achieve our Net Zero commitments.
3. To report the total Greenhouse Gas emissions of our business, at a minimum, on an annual basis.

	Year	Earlier Year if Possible
Commitment to be Net Zero	2050	2045*
50% Emissions Reduction	2030	

*in line with Scottish Government legislation

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2 Company Overview

DH Ecosolutions Ltd is a Limited Company registered in Scotland, company number SC749571, with a registered office address of Halo Enterprise and Innovation Centre, Hill Street, Kilmarnock, Scotland, United Kingdom, KA2 0BA.

Year	November 2022 – October 2023
Industry	Solutions
No. of Staff	4
No. of Offices – Owned	0
No. of Offices – Leased	1
No. of Company Vehicles - Owned	0
No. of Company Vehicles - Leased	0

DH Ecosolutions Ltd are on a mission to bring a range of pioneering products to market, for both commercial and residential settings, that will revolutionise the waste industry forever.

DH Ecosolutions Product/Products is a game changer for the waste industry, solving over flowing bins domestically/commercially, while dealing with societal issues and driving significant Net Zero gains.

3 Reporting Period

November 2022 – October 2023

4 Organisational Boundary

This report has been constructed using the

- Operational Control Approach

5 Operational Scopes

Emissions from Scope 1 and 2 have been measured along with certain Scope 3 emissions. The Scope 3 emissions that have been included are those that have been practical to measure with available data, which are as follows:

- Business Travel
- Employee Commuting
- Office Space Lease
- Working from Home Electricity

6 Benchmark Year

This is the first time the company has done a detailed measurement and reported on its carbon emissions; therefore, this is the benchmark year, i.e. from **November 2022 – October 2023**.

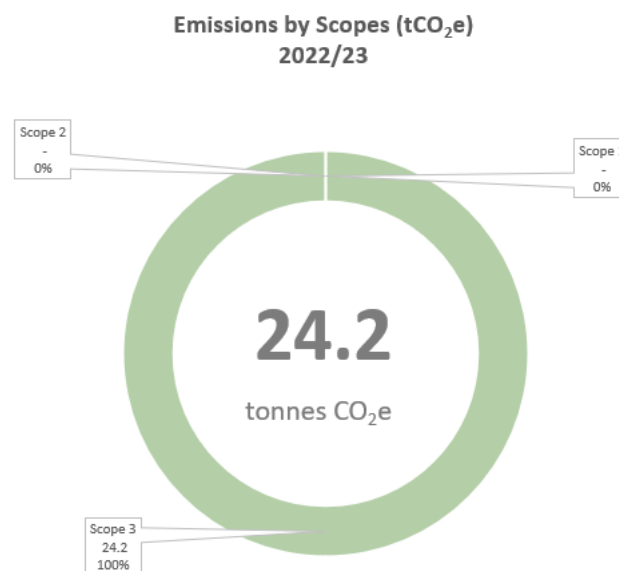
7 Carbon Emissions Overview – 12 months to October 2023



The total calculated emissions for the business for the period 2022 - 2023 are 24.2 tCO₂e. This is the first year the company has measured its carbon emissions. As such this is the benchmark year of the company with the breakdown of emissions analysed throughout this report.

The Company will aim to measure an increasing amount of Scope 3 emissions and is committed to reducing its emissions across all scopes.

8 Analysis by Scope



There were no scope 1 or 2 emissions reported in the reported period. The business owns no premises and has no vehicles.

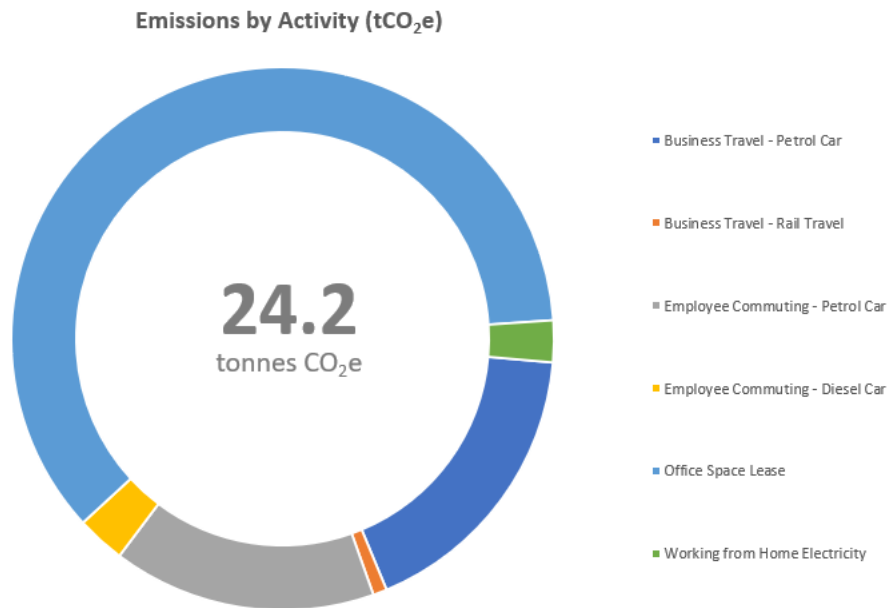
Scope 3 emissions accounts for 100% of calculated emissions and includes:

- Business Travel
- Employee Commuting
- Office Space Lease
- Working from Home Electricity

Scope 3 emissions amount to 24.2 tCO₂e

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9 Emissions by Activity

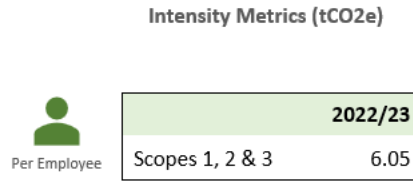


Data Analysis Table, including source of data and confidence level based on the accuracy and method of calculation:

Data Details		2022 - 2023		
Emission Type	Scope	tCO ₂ e	Data Source	Data Confidence
Energy				
Gas	1	0	Gas Bills	High
Electricity	2	0	Electricity Bills	High
Business Travel				
Car - Petrol	3	4.2	Company Travel Records	High
Rail Travel	3	0.2	Company Travel Records	High
Employee Commuting				
Car - Petrol	3	3.8	Employee Survey	Medium
Car - Diesel	3	0.7	Employee Survey	Medium
Other				
Office Space Lease	3	14.7	EEIO Analysis (10 metres space)	Medium
Working from Home Electricity	3	0.6	Employee Survey	Medium
TOTAL		24.2		

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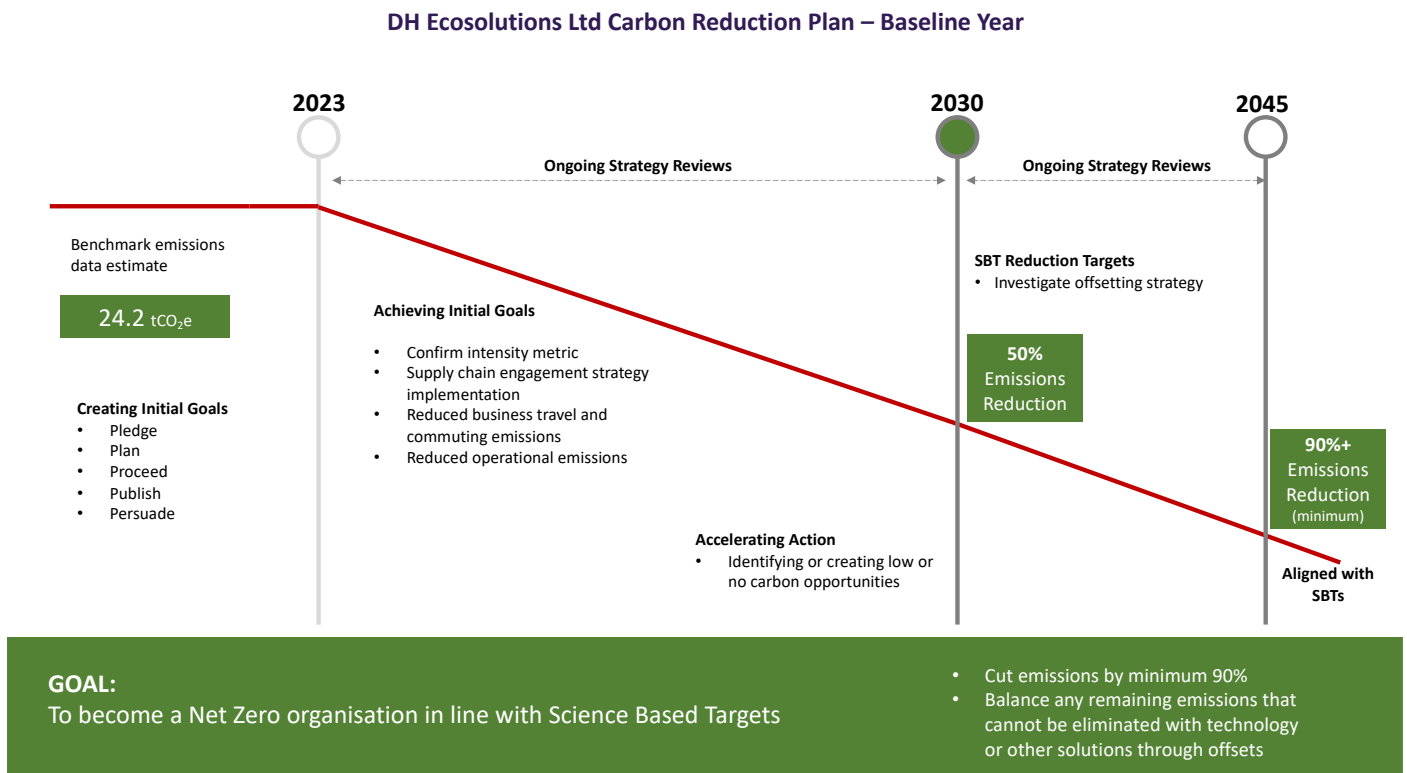
10 Intensity Metric Analysis



The chosen intensity metrics show a carbon emissions value of 6.05 tCO₂e per employee. The business had 4 employees across this period.

11 Emissions Reductions Targets

The following graph summarises the carbon emissions reduction targets.



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12 Carbon Reduction Projects

DH Ecosolutions Ltd will develop the following initiatives that will support the company's strategies to meet Science Based Targets:

Strategy	Initiative
Net Zero Nation Accelerator	DH Ecosolutions Ltd have joined the Net Zero Nation Accelerator on a 12-month program to measure, manage and reduce business emissions in collaboration with other organisations and as part of a wider business initiative.
Office Space Review	To review premises in line with growth expectations in future and ensure that the most carbon efficient option is taken.
Business Travel	To promote use of public transport and car sharing where practical. To encourage the team to switch to electric cars when practical to do so
Data Quality	To ensure accurate data is measured as the product line comes on stream.
Employee Engagement	To ensure all team members are aware of the plan and new members of staff in the future are advised regarding the targets through the induction.

Signed on behalf of DH Ecosolutions Ltd

Name: **Darren Hicks**



Position: **Director**

Date: 22/01/2024

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13 Emissions Data

The data contained in the table below represents total emissions calculated and is consistent with SECR requirements. All sources of emissions that have been measured are included in the totals below. Emissions from key activities are summarised in the previous sections.

	Current Reporting Year Nov 22 – Oct 23
Energy consumption used to calculate emissions Electricity Scope 2 - UK and Offshore (kWh)	0
Energy consumption used to calculate emissions – Global, excluding UK and Offshore (kWh)	N/A
Basis of Energy reporting (Location or Market)	Location
% of total energy sourced from certified renewable sources	0
Emissions associated with energy consumption - UK, Offshore and Global (tCO ₂ e)	0.0
Emissions from activities for which the company is responsible including combustion of fuel and operation of facilities - Scope 1 (tCO ₂ e)	0.0
Emissions from purchase of electricity, heat, steam and cooling purchased for own use - Scope 2 (tCO ₂ e)	0.0
Total Scope 1 and 2 Emissions (tCO₂e)	0.0
Emissions from upstream activities out of operational control - Scope 3 (tCO ₂ e)	24.2
Emissions from use of sold products and services out of operational control - Scope 3 (tCO ₂ e)	None included
Total Gross Scope 3 Emissions (tCO₂e)	24.2
Total Scope 1, 2 and 3 Emissions (tCO₂e)	24.2
Intensity ratio tCO ₂ e (gross Scope 1, 2 and 3) per employee	6.05
Carbon offsets (tCO ₂ e)	0.0
Total Annual Net Emissions (tCO₂e)	24.2

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14 Standard and Methodology Used

DH Ecosolutions Ltd categorises its Greenhouse Gas (GHG) Emissions as Scope 1, 2 or 3 as referred to in the WBCSD – WRI Greenhouse Gas Protocol (revised edition, dated March 2014). Emissions in Carbon Dioxide equivalent (CO₂e) for all scopes are calculated using the conversion factors listed in DESNZ Greenhouse Gas Conversion Factors for the relevant 12-month period over which the Carbon Footprint is calculated. Procured renewable electricity and gas is calculated in accordance with the WBCSD – WSI Scope 2 Guidance on procured renewable energy (2015).

15 Data Quality / Confidence

The data used to generate this report has been collected from various sources from both within the company and using assumptions gathered by Net Zero International. These emissions have been converted to CO₂e using GHG Protocol and BEIS frameworks and conversion factors for the relevant period.

16 Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with associated guidance and reporting standards 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 standard and uses the appropriate Government emission conversion factors for greenhouse gas company reporting.

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) Standard.

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

Signed on behalf of Net Zero International

Name: **David Hawes**



Position: **Co-Founder**

Date: **22 January 2024**

Signed on behalf of Net Zero Nation

Name: **Gavin Tweedie**



Position: **Chief Executive Officer**

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17 Glossary

Benchmark Data	The chosen 12-month period that sets the calculated emissions that need to be mitigated and/or offset.
Carbon Reduction	Reduction in measured CO ₂ e emissions
Carbon Reduction Plan	Plan to reduce CO ₂ e emissions over a period of time, updated annually
Carbon Emissions (Gross)	CO ₂ e emissions from Company activities
Carbon Emissions (Net)	CO ₂ e emissions from Company activities minus verified carbon offsets the Company purchases
Carbon Neutral	When emissions are fully offset including those emissions that could be mitigated.
Carbon Offsets	A removal or reduction of carbon emissions through a verified scheme.
CO₂e	All greenhouse gases expressed in terms of Carbon Dioxide equivalent (CO ₂ e) for consistency of reporting.
DESNZ	Department of Energy Security and Net Zero (https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting)
EEIO	Environmentally Extended Input Output – Emissions estimated on spend https://ghgprotocol.org/
GHG Protocol	Greenhouse Gas Protocol https://ghgprotocol.org/
Greenhouse Gases	Carbon Dioxide (CO ₂), Methane (CH ₄), Nitrous Oxide (N ₂ O), Chlorofluorocarbons (CFCs and HCFCs), Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), Sulphur Hexafluoride (SF ₆)
Greenhouse Gas Conversion Factors	Annually published conversion factors normally published by relevant government departments. Converts activity into CO ₂ e emissions.
Greenhouse Gas Emissions (GHG)	Gases in the atmosphere that absorb and radiate heat
Intensity Metric/Ratio	A metric that measures carbon emissions per relevant unit of activity in a business.
Market Reporting v Location Reporting	Market is based on specific tariffs. Location is based on the emissions factor published for the country from which you are reporting.
Net Zero	GHG emissions are mitigated and those that cannot are offset
Renewable Tariff	An energy tariff that is 100% powered by renewable energy and is certified.
SBT	Science Based Targets – reducing emissions by 50% by 2030 and by 90% by 2050 and offsetting the remaining amount.
Scope 1	The fuels that are burnt (gas, transport the company owns, refrigerant gases)
Scope 2	The energy that is bought (electricity from the grid, purchased heat)
Scope 3	Emissions embedded in everything a company buys and emitted as a consequence of everything a company sells.
SECR	Streamlined Energy and Carbon Reporting
tCO₂e	Metric tonnes of CO ₂ equivalent emitted.
WBCSD	World Business Council for Sustainable Development https://www.wbcsd.org/
WRI	World Resource Institute https://www.wri.org/