

NSG

legacy management

CARBON REDUCTION PLAN

NSG REFERENCE: NB933/500/007 4.0

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NSG ENVIRONMENTAL LTD Scientia House, Western Avenue Matrix Park, Chorley PR7 7NB		Carbon Reduction Plan		
Amendment Record				
Issue No.	Section	Description	Author	Date
1	All	Initial issue	A Gardner	30/03/23
2	All	Updated to reflect findings of independent data audit	D Walker	31/08/23
3	All	Updated to include 2023 data	D Walker	12/08/24
4	All	Updated to include SECR 2024	D Walker	05/09/25

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1 INTRODUCTION

As NSG Environmental Ltd (NSG) is classified as a large unquoted company under the definitions set in Section 465 and 466, Chapter 15 of Companies Act 2006, it needs to comply with the government legislation implemented by The Companies (Directors' Report) and Limited Liability Partnerships (Energy and Carbon Report) Regulations 2018 ("the 2018 Regulations") on Streamlined Energy and Carbon Reporting (SECR).

To fulfil this, we have measured our UK energy and greenhouse gas emissions as classified within Scope 1, Scope 2 and mandatory element of Scope 3 of the Streamlined Energy and Carbon Reporting (SECR) regulations, which are material to our organisation's activities and form the data this plan is based upon.

We are not currently including non-mandatory elements of Scope 3 energy as these are not material to our organisation.

2 ORGANISATIONAL AND OPERATIONAL BOUNDARIES OF THE COMPANY

During the latest data reporting period (Financial Year 2024/25), NSG operated from eleven premises (seven locations) in the UK:

- Scientia House, Chorley
- Fortuna Court, Reading
- Juno House, Reading
- Achilles House, Reading
- Youngs Yard, Reading
- Eagle Tower, Cheltenham
- Westlakes Science Park, Whitehaven

Financial Year 2025/26 sees the addition of a twelfth premises at an eighth location:

- Unit 29, Energy Coast Business Park, Egremont

The company's head office is located at Scientia House, Matrix Park, Chorley, Lancashire, PR7 7NB.

The energy consumed by all sites has been quantified and included in the NSG SECR Year 3 report.

3 COMMITMENT TO ACHIEVING NET ZERO

NSG Environmental Ltd is committed to achieving Net Zero emissions by 2050 in line with the government ambition to achieve Net Zero. More investigation work is being undertaken in the organisation to see if these ambitions can be bettered and NSG can achieve Net Zero sooner.

4 BASELINE EMISSIONS FOOTPRINT

Baseline emissions are a record of the greenhouse gases 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. These have been measured in line with ISO 14064-1 as well as the GHG Protocol, using the government conversion factors to generate the emissions figures.

The financial year 2022/23 was selected as the baseline year using the audited data for 2022/23.

As at 31 March 2025 the Company's energy usage and associated carbon emissions for the year, 1 April 2024 to 31 March 2025 are presented in Table 1 alongside those covering reporting periods 2022/23 and 2023/24.

Table 1: Total energy consumption and associated greenhouse gas emissions from Scope 1, Scope 2 and Scope 3 for Year 1 to 3 reporting periods.

SECR Year 1 Reporting Period 2022/23					
Energy Type:		Energy Use (kWh)	% Split (kWh)	Emissions (tCO ₂ e/yr.)	% Split (tCO ₂ e)
Combustion of Gas	(Scope 1)	377,363	35.46%	68.9	31.13%
Electricity	(Scope 2)	331,621	31.16%	64.1	28.99%
Transport	(Scope 3)	355,178	33.38%	88.2	39.88%
Total	(Scope 1, 2 & 3)	1,064,162	100.00%	221.2	100.00%
SECR Year 2 Reporting Period 2023/24					
Energy Type:		Energy Use (kWh)	% Split (kWh)	Emissions (tCO ₂ e/yr.)	% Split (tCO ₂ e)
Combustion of Gas	(Scope 1)	277,763	28.77%	57.5	26.65%
Company-owned vehicles		127,452	12.97%	31.3	14.50%
Electricity	(Scope 2)	241,397	25.00%	48.9	22.66%
Non-company vehicles	(Scope 3)	318,885	33.26%	78.1	36.19%
Total	(Scope 1, 2 & 3)	965,498	100.00%	215.9	100.00%
SECR Year 3 Reporting Period 2024/25					
Energy Type:		Energy Use (kWh)	% Split (kWh)	Emissions (tCO ₂ e/yr.)	% Split (tCO ₂ e)
Combustion of Gas	(Scope 1)	231,894	22.63%	42.4	19.00%
Company-owned vehicles		128,449	12.53%	29.7	13.31%
Electricity	(Scope 2)	300,244	29.30%	62.2	27.86%
Non-company vehicles	(Scope 3)	364,299	35.54%	88.9	39.83%
Total	(Scope 1, 2 & 3)	1,024,886	100.00%	223.2	100.00%

Note: Columns may not always add up due to rounding of numbers.

5 INTENSITY RATIO

Intensity ratios compare emissions data with an appropriate business metric or financial indicator. This allows a comparison of energy efficiency performance over time and with other similar types of organisation. NSG has chosen to compare overall energy consumption and associated emissions against the annual turnover figure for the 2024/25 financial year, which is the Company SECR Year 3 reporting period.

Table 2 Intensity Ratio - Energy consumption and associated GHG emissions per the annual turnover

Reporting Year	Total Energy Consumption (kWh)	Total GHG emissions (tCO ₂ e)	Annual turnover (£)	Intensity Ratio (kWh/ £100,000 of turnover)	Intensity Ratio (tCO ₂ e/ £100,000 of turnover)
SECR Year 1	1,064,162	221.2	54,121,000	1,966.26	0.409
SECR Year 2	965,498	216	67,901,000	1,421.92	0.318
SECR Year 3	1,024,886	223.16	72,169,000	1,420.12	0.309

During the period, NSG turnover and headcount increased. Despite this growth, measures put in place to reduce gas usage and corresponding emissions achieved overall reductions (Table 1).

In a basic data comparison, it appears that these reductions were offset by increases in electricity consumption and business travel. However, the intensity ratio demonstrates a marginal decrease in energy consumption and almost 3% decrease in associated GHG emissions (and almost 25% reduction since year 1).

Energy intensity ratios are calculated and presented as advised by the Department for Energy Security and Net Zero (ESNZ) recommendations.

6 EMISSIONS REDUCTION TARGETS

In order to continue our progress to achieving Net Zero, we have adopted carbon reduction targets. Currently we are aligned with the UK government's ambitions to reach Net Zero by the year 2050.

The addition of the Egremont site from the start of SECR Year 4 will add to our energy consumption and greenhouse gas emissions. This impact is estimated as follows:

Table 3: Estimated Scope 1, Scope 2 and Scope 3 energy consumption and associated greenhouse gas emissions increases due to the addition of Egremont.

Energy Type:		kWh		tCO ₂ e	
		Usage	Total	Emissions	Total
Combustion of Gas	(Scope 1)	-	-	-	-
Company-owned vehicles	(Scope 1)	11.4%	2.1%	18%	2.5%
Electricity	(Scope 2)	11.0%	3.1%	11%	3.0%
Non-company vehicles	(Scope 3)	1.8%	0.6%	2%	0.6%
Total	(Scope 1, 2 & 3)		5.8%		6.1%

It is the intention to undergo an ESOS energy efficiency audit to identify and quantify possible reductions across all sites.

7 CARBON REDUCTION ACTIONS

The following environmental management measures and projects have been completed or implemented during our SECR Year 3 reporting period.

- Continued upgrade of new IT equipment.
- Management of site facilities under the ownership of NSG – this has manifested itself through the continued closure of offices on Fridays as well as mandates for employees to spend more time working from home where possible and encouraging those coming into work to use more public transport or cycling.
- Reduced usage of the workshop heaters at Scientia House to better correlate with working hours/areas together with a slight adjustment in temperature.
- Continued introduction of electric company cars and electric company vans.
- Implementation of environmental actions from our sustainability plan.

Going forwards, there is to be installation of solar panels at head office with the intention to reduce our electricity import and ensure that more of the electricity that we use internally will be emissions free.

It is the intention to undergo an ESOS energy efficiency audit to identify and quantify further possible reductions.

We will also continue to identify and capture energy efficiency actions in the NSG Sustainability Plan.

8 METHODOLOGY

The methodology used for determining energy and carbon emissions comes from a number of sources of GHG emissions:

- Natural gas used for building space heating (Scope 1)
- The use of company vehicles for business travel (Scope 1)
- Electricity used for lighting, heating, ventilation and air conditioning (HVAC), and the operation of office equipment (Scope 2)
- The use of non-company vehicles for business travel (Scope 3)

The energy consumption for our sites has been calculated from various sources, including utility invoices and meter readings, and in cases where these were not available, from industry benchmarks and floor area based on the Building Energy Efficiency Survey report for non-electrically heated offices published by the Department for Business Energy and Industrial Strategy (BEIS). Electricity consumption from most of our sites was determined from monthly meter readings taken by our staff and verified against utility provider actual meter readings where available. Gas consumption was determined from invoices for the full year.

Transport emissions were calculated based on the mileage covered during business trips using both company cars and personal vehicles (referred to as the "grey fleet"). Accurate carbon dioxide equivalent emissions calculations were ensured by utilising information on vehicle fuel types and engine sizes. Data was recorded in accordance with the Corporate Value Chain Standard.

Greenhouse gas emissions have been calculated using the UK Government approved and published conversion factors for company reporting, 2023. The energy consumption and associated GHG emissions from all our sites have been included in the NSG SECR Year 3 report.

9 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 independently audited and reported in accordance with SECR requirements.

Signed 

Name: G Carpenter
Position: Director Responsible for Sustainability
Date: September 2025






NB933-500-007 NSG CMP PPN0621 issue 4

Final Audit Report

2025-09-08

Created:	2025-09-08
By:	Dave Walker (david.walker@nsgltd.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAWDCDvr24oRMQUOlphJc7Xd2YXy3eqJ2_

"NB933-500-007 NSG CMP PPN0621 issue 4" History

-  Document created by Dave Walker (david.walker@nsgltd.com)
2025-09-08 - 11:44:03 AM GMT
-  Document emailed to Grainne Carpenter (Grainne.Carpenter@NSGCONSULTANCY.COM) for signature
2025-09-08 - 11:44:17 AM GMT
-  Email viewed by Grainne Carpenter (Grainne.Carpenter@NSGCONSULTANCY.COM)
2025-09-08 - 11:59:33 AM GMT
-  Document e-signed by Grainne Carpenter (Grainne.Carpenter@NSGCONSULTANCY.COM)
Signature Date: 2025-09-08 - 12:00:29 PM GMT - Time Source: server
-  Agreement completed.
2025-09-08 - 12:00:29 PM GMT