

# Carbon Reduction Plan

## 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. Future iterations of the CMP will include carbon reduction plans and Net Zero transition plans.

## 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. There is a requirement for these to be reported under the Streamlined Energy and Carbon Reporting (SECR) government standard.

<b>Baseline Year: Financial Year 2020 - 2021</b>
<b>Additional details relating to the Baseline Emissions calculations</b>
<p>We have recently undertaken an exercise within NSG to understand our carbon emissions in the past. The intention of this is so that we can manage our emissions in the future to see that we are implementing the right initiatives to reduce our emissions.</p> <p>We made the decision to choose the financial year from April 2020 to the end of March 2021 as our baseline year – this is due to the quality, volume and reliability of data that we had access to as well as the understanding that it was more reflective of our organisational structure with regards to covid working practices.</p> <p>As this was the first iteration of the carbon management plan, we made the decision to focus initially on the Scope 1 and 2 emissions of the organisation as we had a much better understanding of the organisational boundaries. Consequently, we have omitted the quantification and verification of Scope 3 emissions in our baseline reporting. This is due to the lack of understanding as to the extent of our Scope 3 emissions. We are currently reviewing this to ensure that we have a better grasp of the Scope 3 boundaries for our organisation so that we can report on them in the future. There is the plan however for future iterations of the report to include Scope 3 emissions in line with SECR and Corporate Value Chain reporting.</p> <p>All the current reporting of our carbon emissions is in line with the SECR reporting as well as the ISO 14064-1 and GHG Protocol standard to ensure that all the data that we are collecting and reporting against is as reliable and accurate as possible. Conversion factors to calculate all the emissions has been taken from the HM Government published figures.</p>
<b>Baseline year emissions: As below</b>

<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>
<b>Scope 1</b>	90.334tCO <sub>2</sub> e
<b>Scope 2</b>	17.23tCO <sub>2</sub> e
<b>Scope 3 (Included Sources)</b>	N/A (NSG currently do not have a formal assessment of Scope 3 emissions although this is being undertaken)
<b>Total Emissions</b>	107.56tCO <sub>2</sub> e

## Current Emissions Reporting

<b>Reporting Year: Financial Year 2021 - 2022</b>	
<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>
<b>Scope 1</b>	105.47tCO <sub>2</sub> e
<b>Scope 2</b>	9.31tCO <sub>2</sub> e
<b>Scope 3 (Included Sources)</b>	N/A (NSG currently do not have a formal assessment of Scope 3 emissions although this is being undertaken)
<b>Total Emissions</b>	114.78tCO <sub>2</sub> e

## 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. Currently however we do not have any more formal targets that we have set within our organisation due to the nascent nature of carbon reporting within NSG. Through the organisation and reporting of our baseline year however we now have the intention to further develop our carbon reduction plan within the calendar year.

Due to the organisation going through a period of growth, NSG have seen carbon emissions actually increase over the last couple years. One noticeable trend however is that the emissions intensity of the organisation is decreasing outlining that we are putting in place the right initiatives to support future decarbonisation. Nonetheless, we are already beginning to implement measures that will reduce our carbon emissions – we have replaced all our lights with LEDs, increased the efficiency of many office appliances as well as investigating the

installation of solar panels. More on this in the next section. Carbon reductions are something that is very important to the organisation and there is significant work that is now being undertaken to ensure we decarbonise as quickly and naturally as possible through the choice of the most effective solutions.

## Carbon Reduction Projects

### Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2020/21 baseline.

- Introduction of more energy efficient LED lights across all the sites
- Installation of more energy efficient appliances such as dishwashers and microwaves
- Upgrade and retrofit of new IT equipment.
- Management of site facilities under the ownership of NSG – this has manifested itself through the closure of offices on Fridays as well as mandates for employees to spend more time working from home where possible and when coming into work to use more public transport or cycling.
- Introduction of electric company cars and electric company vans.
- Introduction of sustainability policy.

The carbon emission reduction achieved by these schemes has seen a reduction in the emissions intensity of the organisation from 0.37tCO<sub>2</sub>e/£100,000 revenue in 2020/21 to 0.25tCO<sub>2</sub>e/£100,000 in the most recently reported financial year 2021/22. This data is in line with the SECR reporting and ISO 14064-1.

Furthermore, we are now investigating the installation of solar panels across some of our offices with the intention that will reduce our electricity import and ensure that more of the electricity that we use internally will be emissions free. In conjunction with this we are also undergoing an assessment on whether the installation and retrofit of electric boilers and other appliances will support our decarbonisation ambitions.

Future reporting within NSG will look to create the decarbonisation pathways to meet Net Zero in line with PAS2060. Furthermore, we will establish our own targets in line with the SBTi to add credence to our decarbonisation ambitions.

## 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 standard<sup>1</sup> and uses the appropriate Government emission conversion factors for greenhouse gas company reporting<sup>2</sup>.

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

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

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

accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard<sup>3</sup>.

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

A handwritten signature in black ink, appearing to read 'J.S. Porter', written in a cursive style.

Jim Porter  
Managing Director  
NSG Environmental Ltd  
Date: 31/3/2023

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