

# Soil Engineering Geoservices Limited

## Carbon Reduction Plan

### Introduction

Soil Engineering Geoservices (SEGL), recognises its responsibility to conduct day to day activities and operations that maintain a healthy economic environment; ensure the prudent use of natural resources; ensure social progress that recognises the needs of all people; and provides effective protection of the environment.

Climate change and energy are a material and mainstream business concern for SEGL, we are committed to operating in a socially and environmentally responsible manner throughout our operations, and to continuing to improve our performance. Combining skills of geotechnical and environmental engineering, SEGL makes a positive contribution towards the mitigation of and adaption to the climate emergency.

This Carbon Management Plan (CM Plan) sets out our ambitions for the business, and a roadmap for progress. Reducing carbon emissions is not just about our commitment to the environment. The same processes we use to identify carbon emissions reduction will also identify and realise financial savings through improved efficiency in the procurement and operation of our buildings and transport.

### Commitment to achieving Net Zero

We have set interim targets to reduce our Scope 1&2 carbon emissions by 40% and Scope 3 emission by 20% by 2030 compared with a 2018 baseline. We are also committed to achieving Net Zero emissions by 2050.

### Baseline Emissions Footprint

Our current baseline carbon footprint was calculated to be **2912.61 tonnes** of carbon dioxide equivalent (tCO<sub>2</sub>e) and covered electricity, gas and gas oil consumption, transport (fleet), and materials consumption.

## Baseline

<b>Baseline Year: 2020</b>	
<b>Additional Details relating to the Baseline Emissions calculations.</b>	
The baseline calculations for Scope 3 are based on average emissions from recent years datasets. The SEGL baseline is currently being recalculated and sure this baseline is temporary.	
<b>Baseline year emissions:</b>	
<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>
<b>Scope 1</b>	1451.16
<b>Scope 2</b>	79.70
<b>Scope 3</b> (Included Sources)	1381.75 (Materials consumed, Business Travel and potable Water)
<b>Total Emissions</b>	2912.61

## Current Emissions Reporting

<b>Reporting Year: 2023</b>	
<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>
<b>Scope 1</b>	1340.79
<b>Scope 2</b>	60.83
<b>Scope 3</b> (Included Sources)	1276.25 (Materials consumed, Business Travel and potable Water)
<b>Total Emissions</b>	2677.87

## Emissions reduction targets

SEGL is committed to taking positive action to address the Climate Emergency, In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets.

- Scope 1&2 Carbon emissions by 40% by 2030
- Scope 3 emissions by 20% by 2030.

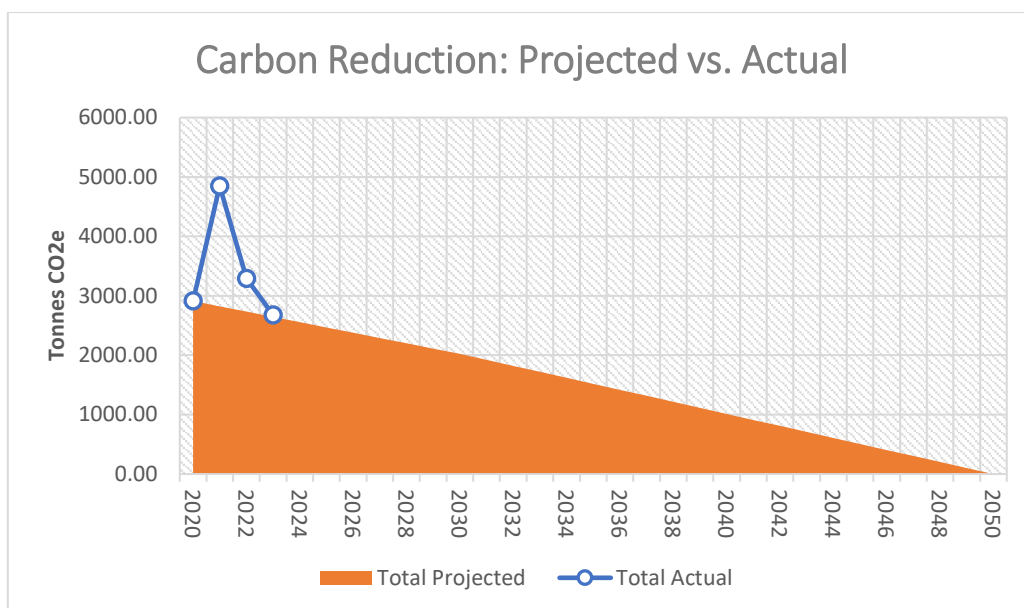
Our baseline is 2018 [See Figure 1] however for the purpose of this action plan the baseline has been set to 2020 as our datasets are undergoing reverification.



Figure 1 - SEGL Environmental Objectives

We project that carbon emissions will decrease over the next five years to 2201.65 tCO<sub>2</sub>e by 2028. This is a reduction of 24%

Progress against these targets can be seen in the graph below:



## Carbon Reduction Projects

### Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2020 baseline. SEGL has completed several initiatives to address its carbon emissions such as

- All offices, workshops and labs have undergone a refit of lighting and have LED lighting installed.
- Head office in Leeds has been refurbished.
- Lightfoot devices installed in all long-term fleet vehicles.
- Ultimate fuel cell trials in vehicles and rotary rigs.
- Welfare/ Offices powered by a hybrid battery pack with generator. Battery power during the night providing noise abatement and fuel efficiencies.
- Trials of to use single generator was used to power all grouting plant (diesel water pump replaced by an electric pump).
- HVO fuel trials in lieu of diesel, which reduced lifecycle CO2 emissions from generators and pumps etc.
- Ongoing project to trial and install telemetry on rigs and ancillary equipment to monitor diesel consumption.
- We have made electric vehicles available on the company car scheme for all grade of user.
- SEGL is certified by BSI to ISO14001:2015 and is a signatory to SBTi.

*In the future we hope to implement further measures such as:*

- Install telemetry on rigs and ancillary equipment to monitor diesel consumption.
- Move to alternative low carbon fuel sources such as hydrogen.
- Move to fulfil the requirements of ISO 14064-3 – Carbon Footprint Verification.

## 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 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 Managing Director, Soil Engineering Geoservices LTD.

**Signed on behalf of Soil Engineering Geoservices LTD:**



**Tristan Llewellyn**

**Managing Director, Soil Engineering Geoservices Limited**

Date: 02/11/2023

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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>

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