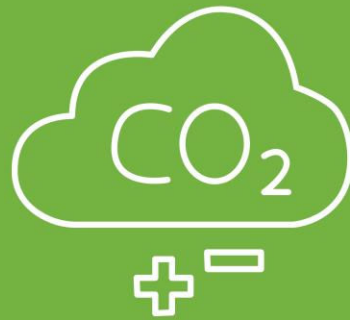


CLIMATE ACTION

Carbon Reduction Plan

2022 Report

(2021 Emissions)



SYSTRA

CARBON REDUCTION PLAN



2022 REPORT (UPDATED FOR 2021 EMISSIONS)

IDENTIFICATION TABLE	
Supplier name	SYSTRA Ltd
Original Publication date	30/09/2021
Update version date	29/09/2022
Number of pages	5 (excl. cover)

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1. COMMITMENT TO ACHIEVING NET ZERO

SYSTRA Ltd is committed to achieving carbon net-zero emissions by 2035.

2. 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.

BASELINE EMISSIONS

Baseline Year: 2020 (1st Jan 2020 – 31st Dec 2020)

Additional Details relating to the Baseline Emissions calculations.

2020 was the first year of reporting and therefore used for baseline and first year of reporting emissions. Baseline emissions have been calculated in accordance with the Greenhouse Gas Protocol Corporate Standard¹, with reporting boundaries defined by the operational consolidation (control) approach. BEIS 2020 conversion factors² have been applied for all emissions other than non-UK electricity (Ireland only), where local country conversion factors have been used.

Scope 1 emissions are those arising from business travel in company leased vehicles. Scope 2 emissions are those arising from electricity used in our offices. Reported emissions use the market-based method. Location-based emissions for 2020 were 145.9 tCO₂e.

Scope 3 emissions include:

- Category 4 (upstream transportation & distribution) emissions were excluded due to limited data availability and its expected insignificant contribution to total emissions – as an engineering design and consultancy company product purchases are limited (e.g. IT equipment, stationery, refreshments etc.).
- Category 5 (waste generated in operations) emissions were indicatively estimated using a sampling method and found to be insignificant (c. 0.26% of the company's footprint).
- Category 6 (business travel) = 17 tonnes.
- Category 7 (commuting travel) = 161 tonnes.
- Category 7 (working from home) = 361 tonnes.
- Category 9 (downstream transportation & distribution) emissions were excluded because they are not applicable. SYSTRA provides a professional service that involves no transportation or distribution.

Baseline year emissions:

EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	12.8
Scope 2	74.7
Scope 3	539.3
Total Emissions	626.8

¹ [Greenhouse Gas Protocol Corporate Standard](#)

² [BEIS 2020 conversion factors](#)

3. CURRENT EMISSIONS REPORTING

Measurement, current emissions, methodology and assumptions are the same as for the baseline emissions but now include additional Scope 3 categories.

CURRENT EMISSIONS

Current Reporting Year:

2021 (1st Jan 2021 – 31st Dec 2021)

Additional Details relating to the Current Emissions calculations.

Baseline emissions have been calculated in accordance with the Greenhouse Gas Protocol Corporate Standard³, with reporting boundaries defined by the operational consolidation (control) approach. BEIS 2020 conversion factors⁴ have been applied for all emissions other than non-UK electricity (Ireland only), where local country conversion factors have been used.

Scope 1 emissions are those arising from business travel in company leased vehicles. Scope 2 emissions are those arising from electricity used in our offices. Reported emissions use the market-based method. Location-based emissions for 2021 were 143.9 tCO₂e.

Scope 3 emissions include:

- Category 3 (fuel-and energy-related activities)
- Category 4 (upstream transportation & distribution) emissions were excluded due to limited data availability and its expected insignificant contribution to total emissions - as an engineering design and consultancy company product purchases are limited (e.g. IT equipment, stationery, refreshments etc.).
- Category 5 (waste generated in operations) emissions were indicatively estimated using a sampling method and found to be insignificant (c. 0.26% of the company's footprint).
- Category 6 (business travel) = 46 tonnes.
- Category 7 (commuting travel) = 32 tonnes.
- Category 7 (working from home) = 921 tonnes.
- Category 9 (downstream transportation & distribution) emissions were excluded because they are not applicable. SYSTRA provides a professional service that involves no transportation or distribution.

Baseline year emissions:

EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	47.8
Scope 2	49.9
Scope 3	1,024.4
Total Emissions	1,122.1

³ [Greenhouse Gas Protocol Corporate Standard](#)

⁴ [BEIS 2020 conversion factors](#)

4. EMISSIONS REDUCTION TARGETS

4.1.1 In order to continue our progress to achieving carbon net-zero by 2035, we have adopted the following carbon reduction targets:

- Reduction of scope 1 and 2 carbon emissions by 80% by 2025.
- Carbon neutral operations (scope 1 and 2) by 2021.

4.1.2 We project that carbon emissions will decrease over the next four years to 557 tCO₂e by 2025. This is a reduction of 11%.

5. CARBON REDUCTION PROJECTS

5.1 Completed carbon reduction initiatives

The following environmental management measures and projects have been completed or implemented since the 2020 baseline. The carbon emission reduction achieved by these schemes will be realised in future emission reporting years, and the measures will be in effect when performing the contract.

- Continued to operate in accordance with our ISO 14001 certified management system.
- Increased opportunities for flexible working, including working from home, following the pandemic. We have now implemented a permanent hybrid working policy for all staff, resulting in a combination of home and office working which has reduced our business travel, travel to work and office-based energy usage.
- Reduced office floor space in Glasgow and Newcastle offices.
- Upgraded to reactive lighting and other items to give a more energy efficient office space in Glasgow and Newcastle.
- Upgraded the lighting in the York and Birmingham offices to improve energy efficiency. This includes LED lighting and PIR systems.
- Moved our larger offices onto green tariffs where the opportunity existed.
- Closed two of our satellite offices in Perth and Bristol.
- Implemented the procurement of lower energy consumption computer equipment (lap-tops and screens).
- Further assessment and external assurance of our carbon footprint including increased Scope 3 categories.
- Signed up to UN Race to Zero and commitment letter for Science-Based Targets initiative (SBTi).

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

- Formal validation of a science-based target and alignment with industry corporate standards for carbon net-zero.
- Sourcing of all electricity (wherever possible) from renewable sources and energy tariffs across our estate.
- Encouraging low carbon travel options and discouraging private vehicle travel.
- Integrating carbon considerations into significant purchasing decisions (e.g. IT hardware and data storage).
- Implementing initiatives to encourage low carbon behaviours and/or renewable energy procurement by employees working from home.
- Further investment in verified carbon offsets to neutralise our emissions whilst reduction initiatives take effect.

6. 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 standard⁵ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting⁶.

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) Standard⁷.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors on 29th September 2022.

Signed by Nicholas Salt, for and on behalf of SYSTRA Limited:



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Nicholas Salt, Chief Executive Office

⁵ [Corporate Standard | Greenhouse Gas Protocol \(ghgprotocol.org\)](https://www.ghgprotocol.org)
⁶ [Government conversion factors for company reporting of greenhouse gas emissions - GOV.UK \(www.gov.uk\)](https://www.gov.uk)
⁷ [Corporate Value Chain \(Scope 3\) Standard | Greenhouse Gas Protocol \(ghgprotocol.org\)](https://www.ghgprotocol.org)