

## 2021 REPORT

IDENTIFICATION TABLE	
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### TABLE OF CONTENTS

1.	COMMITMENT TO ACHIEVING NET ZERO	2
2.	BASELINE EMISSIONS FOOTPRINT	2
3.	CURRENT EMISSIONS REPORTING	3
4.	EMISSIONS REDUCTION TARGETS	3
5.	CARBON REDUCTION PROJECTS	3
5.1	COMPLETED CARBON REDUCTION INITIATIVES	3
6.	DECLARATION AND SIGN OFF	4

# 1. COMMITMENT TO ACHIEVING NET ZERO

SYSTRA Ltd is committed to achieving 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 (1<sup>st</sup> Jan 2020 – 31<sup>st</sup> Dec 2020)

### Additional Details relating to the Baseline Emissions calculations.

2020 is 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 Standard<sup>1</sup>, with reporting boundaries defined by the operational consolidation (control) approach. BEIS 2020 conversion factors<sup>2</sup> 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 tCO<sub>2</sub>e.

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 <sub>2</sub> e)
Scope 1	12.8
Scope 2	74.7
Scope 3	539.3
<b>Total Emissions</b>	<b>626.8</b>

<sup>1</sup> [Greenhouse Gas Protocol Corporate Standard](#)

<sup>2</sup> [BEIS 2020 conversion factors](#)

### 3. CURRENT EMISSIONS REPORTING

As this is the first year of measuring, current emissions, methodology and assumptions are the same as for the baseline emissions.

CURRENT EMISSIONS REPORTING	
Reporting Year:	2020 (1 <sup>st</sup> Jan 2020 – 31 <sup>st</sup> Dec 2020)
EMISSIONS	TOTAL (tCO <sub>2</sub> e)
Scope 1	12.8
Scope 2	74.7
Scope 3	539.3
<b>Total Emissions</b>	<b>626.8</b>

### 4. EMISSIONS REDUCTION TARGETS

4.1.1 In order to continue our progress to achieving Net Zero, 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 five years to 557 tCO<sub>2</sub>e 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).

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

- Sourcing of all electricity (wherever possible) from renewable sources.
- Encouraging low carbon travel options and discouraging 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.
- Investing in 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 standard<sup>3</sup> and uses the appropriate Government emission conversion factors for greenhouse gas company reporting<sup>4</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>5</sup>.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors on 27 September 2021.

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



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Nicholas Salt, Chief Executive Office

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<sup>3</sup> [Corporate Standard | Greenhouse Gas Protocol \(ghgprotocol.org\)](https://ghgprotocol.org/corporate-standard)

<sup>4</sup> [Government conversion factors for company reporting of greenhouse gas emissions - GOV.UK \(www.gov.uk\)](https://www.gov.uk/government/conversion-factors-for-company-reporting-of-greenhouse-gas-emissions)

<sup>5</sup> [Corporate Value Chain \(Scope 3\) Standard | Greenhouse Gas Protocol \(ghgprotocol.org\)](https://ghgprotocol.org/corporate-value-chain-scope-3-standard)