



# EGIS TRANSPORT SOLUTIONS

## CARBON REDUCTION PLAN

13 July 2022

Issue 2

### 1 INTRODUCTION

EGIS Transport Solutions (ETS) is a multi-disciplinary engineering consultancy which provides the following services to a range of clients in the construction industry:

**Major Projects:** Delivery of highly complex and challenging multidisciplinary projects for major railway, urban and transit clients. Our expertise spans across the freight, high speed and commuter rail sectors and extends to multi-modal hubs, depots, stations, operations, maintenance and asset management. In the UK, we have been involved in delivering over £600m of major project works since 2012.

**Urban Transit:** Delivery of urban transport projects, from heavy and light rail metros to high-capacity trams and associated infrastructure. In the UK, we are currently delivering five complex extensions for the West Midlands Metro.

**Smart Mobility:** We provide expertise in the development of innovative mobility and sustainable transit solutions, integrating social, digital and environmental initiatives. We work collaboratively with key stakeholders, clients and partners to develop pioneering solutions to support mobility needs at local and national levels in the best interest of people and communities.

**Multidisciplinary Consulting:** We have a team of consultancy experts, with a wealth of experience and expertise in delivering all grades of Project Management, Commercial Management, Programme Controls and Risk and Value Management, across the whole project lifecycle. Since 2012, we have managed over £1bn of complex, multi-disciplinary rail projects in the UK. Our capabilities reach across new infrastructure, renewals, operations and rolling stock, and include specialist capabilities in PRAMS (Performance, Reliability, Availability, Maintainability and Safety) and Rolling Stock engineering.

**Digital Asset Management:** We take a holistic approach to infrastructure asset management, combining our digital, technical and asset management expertise to support our clients improve the efficiency and effectiveness of their asset operations and maintenance. We have extensive experience of working in complex infrastructure environments, using industry leading asset management methodologies and processes. We have a track record of developing technologies such as digital twins to provide greater levels of insight into the performance of our clients' assets.

**Engineering, Procurement and Construction Management:** We are experts in the design, procurement and management of complex rail and infrastructure projects. We have experience in civil engineering, tunnels, viaducts, complex station design, systems engineering, urban transit using the latest BIM and sustainable design techniques. From minor turnkey construction projects to multi-functional design packages, we deliver solutions that not only offer value for money to our clients but also meet the highest operational, social and environmental standards.

ETS was created as a corporate entity in December 2021 following the acquisition of the established multi-disciplinary consultancy Collaborative Project Management Services (CPMS) by the Egis Group, a leading global consulting and engineering business working in construction, transport and mobility services. On 6th December 2021, Collaborative Project Management Services Limited (CPMS) changed its registered name to “Egis Transport Solutions Limited” and is now trading as “Egis”.

The delivery of sustainability is a core value embedded in how ETS operate our business and the professional services we delivery to our clients in the rail infrastructure sector. Our Sustainable Futures Policy sets out our goals and commitments for protecting the environment and delivering positive social and economic outcomes for all our stakeholders including our clients, our employees, our supply chain and the local communities we work with. A key focus is contributing to delivery of the United Nations Sustainable Development Goals and supporting the UK transition to a Net Zero economy. We do this by focusing on both reducing our own operational greenhouse emissions and by providing consulting services to our clients that embed low carbon solutions into the design, construction and operation of infrastructure assets. Our expertise includes advising clients on carbon reduction initiatives, including the incorporation of PAS 2080 into the design process, the use of the Railway Safety and Standards Board Rail Carbon Tool to identify carbon hotspots and whole life cycle assessment/cost analysis to ensure optimum low carbon solutions are embedded into projects.

This document is the first ETS Carbon Reduction Plan. Due to significant operational changes over the past 2 years (explained further in section 3 of this plan) we have used an estimated baseline for our relevant scope 1, 2 and 3 emissions based on a projection of five months of data (January to May 2022) as to date our monthly emissions for 2022 are consistent. This document also includes a trajectory for reducing greenhouse gas emissions across our workplaces and operations from now to 2050.

## 2 ETS COMMITMENT TO NET ZERO CARBON EMISSIONS

ETS is fully committed to achieving Net Zero carbon emissions by 2050. We will achieve this by implementing a robust net-zero carbon strategy addressing our greenhouse gas emissions across all our workplaces and operations. The initiatives ETS are currently undertaking or are planned for implementation in the next 3 years are detailed in Sections 5 and 6 of this plan.

## 3 ETS COMMITMENT TO MEASURING OUR UK BASELINE CARBON EMISSIONS

ETS (formerly known as CPMS) began measuring its baseline greenhouse gas emissions associated with staff business travel activities in Jan 2020 (scope 3).

Our scope 3 emissions associated with staff business travel data for 2020 and 2021 were as below:

2020	0.0496 tCO <sub>2</sub> e
2021	0.01916 tCO <sub>2</sub> e

Due to the Covid pandemic resulting in a significant change to the company operations over 2020-2021 we have decided, when preparing this our first Carbon Reduction Plan, to use a projection of our current 2022 emission data as an estimated baseline (see Table 1 below). This is given that analysis of the data indicates emissions are consistent across five months (January 2022 to end May 2022). By using an estimated projected baseline, we can begin to take sensible additional carbon reduction actions and integrate these into our business operations. We will be monitoring and recording actual emissions monthly for the remainder of 2022 to check that our assumptions are correct. The two factors that may have an influence on our 2022 emissions are a significant change in staff numbers and a change in our workplace accommodation.

**Table 1: Our projected estimated baseline**

<p><b>Baseline Year: Estimated – based on 5 months of consistent data from January – May 2022 projected to Dec 2022, t CO<sub>2</sub>(e) = (12 months total projected output of CO<sub>2</sub> (e) for 2022).</b></p> <p><b>Please see Table 2 below for January to May 2022 Scope 1, 2 &amp; 3 emissions as calculated.</b></p>
<p><b>Additional Details Relating to the Baseline Emissions Calculations</b></p>
<p>ETS (formerly known as CPMS) began measuring its baseline greenhouse gas emissions associated with staff business travel activities in Jan 2020 (scope 3) and was in the process of implementing actions to collate relevant data for Scopes 1 and 2, as well as further staff commuting data for Scope 3 when the Covid pandemic occurred resulting in a significant change to the company operations.</p> <p>This meant we were not able to obtain relevant baseline data associated with Scope 1, 2 and 3 emissions as leased office premises were closed in 2020 and the vast majority of staff were working from home. This situation continued until November 2021. Although some travel related emission data was collated for the small number of staff who travelled to client offices and sites which remained open over the pandemic this data is not appropriate for the ETS baseline now that business operations have returned to a more normal situation in 2022.</p> <p>ETS began leasing new office premises in November 2021 (although with very limited occupancy until Jan 2022) and business and commuting travel which represents a more normal operational pattern commenced in Jan 2022. Our business operations have not returned (and are not likely to return) to pre-pandemic approach as a significant number of staff are either working a hybrid (office-home) or full home working pattern. Given the above factors we therefore need to establish a new baseline for our greenhouse gas emissions associated with our workplace and other relevant Scope 1, 2 and 3 emissions for our operations and this commenced in January 2022.</p> <p>To date, staff commuting has not been included in Scope 3 emissions due to disruption to “normal travel working practices” due to the Covid pandemic in 2020 and 2021. ETS are currently</p>

surveying all employed staff on their daily commuting patterns so that this can included in monthly and annual total tCO <sub>2</sub> (e) for future baseline calculations.	
<b>EMISSIONS, TOTAL (tCO<sub>2</sub>e) Estimated Baseline Year 2022</b>	
<b>Scope 1:</b> <b>(Included sources: 1 company owned vehicle assumed to travel 10,000 miles per annum)</b>	<b>0.0521</b>
<b>Scope 2:</b> <b>(Included sources: electricity and gas purchased and used in office premises, sub-metered)</b>	<b>0.00108</b>
<b>Scope 3:</b> <b>(Included sources: business travel, waste and estimated electricity transportation and distribution losses)</b>	<b>4.3512</b>
<b>Total Emissions, (tCO<sub>2</sub>e)</b>	<b>4.4043</b>

Total tCO<sub>2</sub> (e) 2022 = 4.4043  
Total number of ETS employees = 150  
tCO<sub>2</sub> (e) per employee = 0.02936

## 4 CURRENT EMISSIONS REPORTING

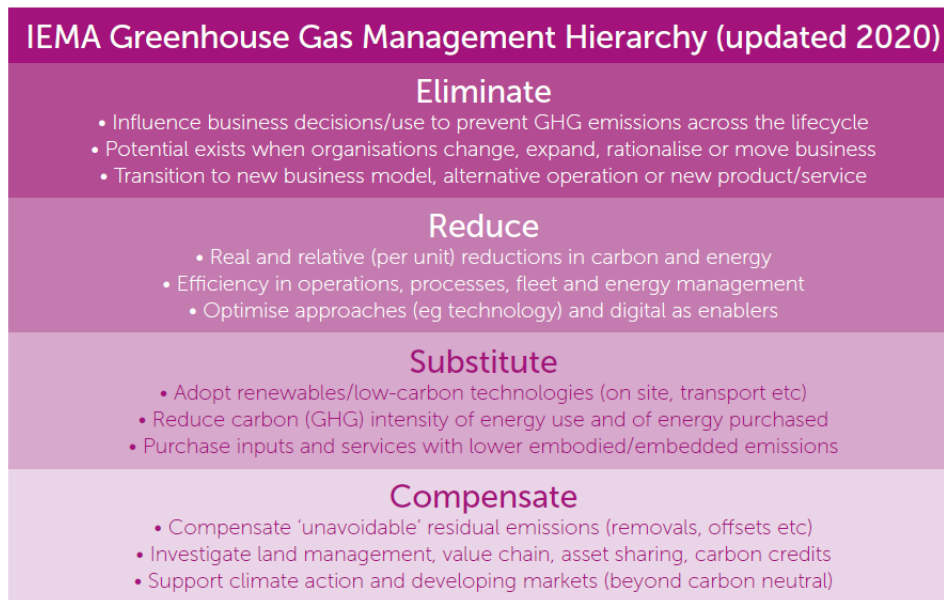
**Table 2: Our current emissions reporting**

Reporting Period: 5 months, (January – May 2022). Actual calculated emissions tCO <sub>2</sub> (e).	
<b>EMISSIONS TOTAL (tCO<sub>2</sub>e)</b>	
<b>Scope 1:</b> (Included sources: 1 company owned vehicle assumed to travel 10,000 miles per annum)	<b>0.0217</b>
<b>Scope 2:</b> (Included sources: electricity and gas purchased and used in office premises, sub-metered)	<b>0.000445</b>
<b>Scope 3:</b> (Included sources: business travel, waste and estimated electricity transportation and distribution losses)	<b>1.813</b>
<b>Total Emissions (tCO<sub>2</sub>e)</b>	<b>1.83514</b>

## 5 COMPLETED CARBON REDUCTION INITIATIVES & OUR APPROACH TO GHG MANAGEMENT

Our Environmental Management System which is certified to ISO14001:2015 contains our management processes and measures to reduce our environmental impacts including the reduction of carbon emissions. In addition, we have used the Institute of Environmental Management and Assessment (IEMA) publication "Assessing Greenhouse Gas Emissions and Evaluating their Significance" as a guide to our approach to assessing and reducing our emissions. We are using their Greenhouse Gas Management Hierarchy as illustrated in Figure 1 below to set out our approach to reducing greenhouse gases associated with our workplaces and operations.

**Figure 1: Institute of Environmental Management and Assessment (IEMA) Greenhouse Gas Management Hierarchy**



*Updated from original IEMA GHG Management Hierarchy, first published in 2009*

To date we have already completed the following environmental measures and carbon reduction initiatives:

- Encouraged our staff to utilise more sustainable modes of transport where feasible. We do not have a company car scheme which includes petrol or diesel cars but will be introducing an EV car scheme in 2022 (further information is provided in section 6 of this plan).
- Have a paperless office regime at our Baker Street offices in London.
- Supported our staff that wish to have a hybrid working pattern or where feasible, a full-time home working pattern including the provision of appropriate energy efficient equipment and facilities (desks, chairs, IT monitors etc.) for use at home.
- Established a Sustainability Focus Group which meets monthly consisting of representatives from across our teams who actively promote sustainability in our operations. This group has developed our Global Kindness Programme which includes a carbon awareness campaign.
- Delivered carbon management training and awareness to all staff by our Head of Sustainability and Environment.
- Trained key members of staff in the use of the RSSB Rail Carbon tool to identify carbon hotspots at design and construction stages and assist in reducing a project's carbon impact.
- Became a Bronze member (83% on way to achieve Silver) of the Supply Chain Sustainability School which provide construction industry leading training and best practise guidance. Where appropriate managers include training via the school in staff personal and CPD objectives.

- Invested in an industry leading site reporting system provided by Inndex. The system is a cloud-based application that provides multiple services, such as briefing recording, quality control tools such as defects registers and inspection and test plan reporting, close call reporting and time and fatigue management functions. Moving to a cloud-based system not only provides efficient live and up-to-date information to our management team, but significantly reduces our waste in relation to site-based paperwork.

## 6 PLANNED FUTURE CARBON REDUCTION INITIATIVES

Since ETS began to conduct a corporate carbon emissions baseline in January 2022, with a commitment to achieving net zero carbon emissions by 2050 from the 2022 baseline, the company has been examining a number of internal initiatives which would ensure the reduction of our absolute carbon emissions by -4.31 tonnes by 2050, with the remaining emissions offset to zero via certified carbon off-setting schemes. As part of this process, ETS are identifying our particular carbon “hotspots” which offer the greatest opportunities for absolute greenhouse gas emissions reduction. Our path to net zero will involve reducing our operational footprint, including our business travel by 2030 and 2050 as well as strengthening the way in which we embed carbon reduction within our supply chain and our client services. The company will also consider adopting fully accredited carbon offsetting projects to achieve the zero emissions goal.

The following additional carbon reduction initiatives are planned for implementation over the next 3 years:

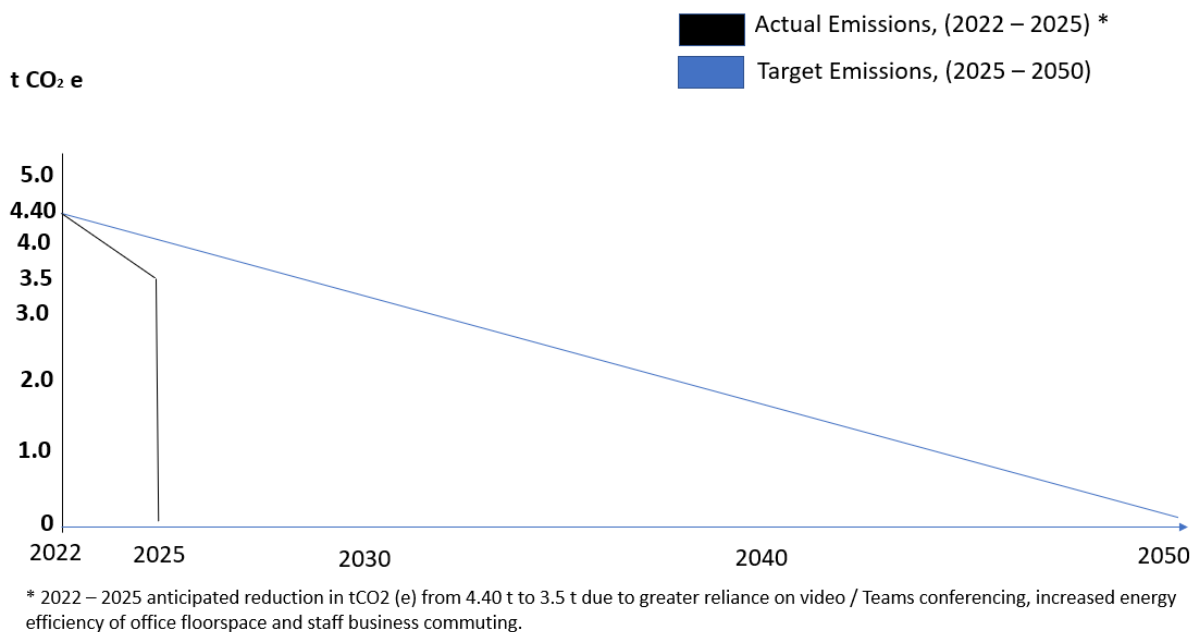
- Introduction of a company-wide electric vehicle scheme to qualifying employees. We are in the process of engaging with HRUX Ltd to support in the provision of this scheme. This will commence in 2022.
- As the company continues to grow in terms of turnover and number of employees, ETS are likely to relocate to additional or larger leased office space. This will enable us to secure “greener office leases” including increased energy efficiency offices and opportunities to switch to 100% renewable energy sources as part of new lease agreements, as well as selecting office floorspace with energy saving measures such as light sensors and flexible heat and air-cooling systems.
- ETS will continue to work with the Supply Chain Sustainability School on the development and implementation of a supply chain sustainability programme in order to engage with our suppliers to achieve our net zero carbon targets. We will set targets for supplier decarbonisation and will also report our progress towards zero carbon emissions on annual basis via a non-financial scorecard.
- Hybrid working. ETS will continue to encourage flexibility in our employees’ working practices, enabling staff to avoid car journeys to work wherever practicable. ETS will continue to schedule remote working meetings using Microsoft Teams and video conferencing facilities. ETS will also produce a corporate Green Travel Plan, notably for staff required to attend client work sites.
- We will sign up to the Science Based Targets Initiative (SBTi) including the SBTi net zero carbon target and other standards such as the adoption of ISO14064 ‘Greenhouse gases:

Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals.

- Employee engagement. In order to drive towards a net zero carbon target, it is critical that we continue to empower and educate our staff as part of this process. This will include company-wide sustainable behaviour change and training programmes in order to embed wider sustainability issues and projects into our business as usual working practices. This will include becoming a Carbon Literate Organisation by the end of 2023 by achieving the required certification from the Carbon Literacy Project.
- Carbon offsetting. ETS will explore and evaluate various certified carbon offsetting schemes that focus on global biodiversity and ecosystem services including the UN ecosystem restoration programme 2021 – 2030 and the LEAF Coalition (Lowering Emissions by Accelerating Forest Finance) initiative.

## 7 EMISSIONS REDUCTION TARGETS

Carbon Reduction: Projected vs. Actual



OFFICIAL

The above graph illustrates our forecast emissions reduction from the 2022 baseline to 2050.

We project that carbon emissions will decrease over the next 3 years (2022 – 2025) by 0.9 tonnes by 2025, reducing to zero on an incremental basis from 2022 to 2050. The planned carbon emission reduction initiatives to support these targets are detailed above in Section 6.



## 8 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>. ETS does not fall under the Streamlined Energy and Carbon Reporting Requirements, (SECR). All our Scope 1, 2 and 3 GHG emissions are reported in accordance with the GHG Protocol reporting requirements and the 2019 HM Government Environmental Reporting Guidelines. ETS have used the 2021 UK Government's Conversion Factors for Company Reporting for all Scope 1, 2 and 3 emissions detailed in this Carbon Reduction Plan.

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

This plan will be reviewed annually and published on our website so that it is publicly accessible.

### Signed on behalf of Egis Transport Solutions:

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Date: 17/07/22

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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>