



EGIS TRANSPORT SOLUTIONS

CARBON REDUCTION PLAN

31 July 2023

Issue 3

1 INTRODUCTION

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

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

Major Projects: With a strong team of over 200 in the UK supported by 2,000+ professionals worldwide we have the experience, competencies and capabilities necessary to deliver large-scale railway and urban transit projects. With our end-to-end project lifecycle strengths in design, project management, systems integration and testing and commissioning, we work as partners with clients to manage contracts and projects and with Tier 1 Consultants and Contractors to deliver solutions to complex problems. Our expertise spans across the freight, high speed and commuter rail sectors and extends to urban railway multi-modal hubs, depots, stations, operations, maintenance and asset management. In the UK alone, we have been involved in delivering over £600m of major project works since 2012.

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.

Construction: 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. For all stages of the design and construction process, we offer innovative, sustainable

solutions, integrating the knowledge and experience of our construction resources. 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 sustainable development is a core value embedded in how ETS operate our business and the professional services we delivery to our clients in the infrastructure sector. Our Sustainable Futures Policy and our ESG (Environmental, Social and Governance) Framework 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 in. 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.

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 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) 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. In 2022 we published our first carbon reduction plan using a baseline from 2021.

Given that the Covid pandemic resulted in a significant change to the company operations over 2020-2021 which were not representative, in addition to the fact that we have significantly improved our data collection approach from 2021 we have decided that data collected over the period 2020-2021 is not appropriate+. Therefore, when preparing this issue of our Carbon Reduction Plan, we are using 2022 as our new baseline year.

Table 1: Our Baseline

Baseline Year: 2022	
Additional Details Relating to the Baseline Emissions Calculations	
<p>Our 2022 baseline emissions have been collated using the Egis Group Carbon Calculator tool which covers Scope 1, 2 and specific Scope 3 sources (as detailed below). Carbon source hotspots (Top 3 sources) during 2022 have been identified as the following:</p> <ol style="list-style-type: none"> 1. Business travel = 124.80 tCO₂ (e) 2. Assets (IT assets /software and services) = 90.59 tCO₂ (e) 3. Employee commuting = 45.36 tCO₂ (e) 	
EMISSIONS, TOTAL (tCO₂e) Estimated Baseline Year 2022	
Scope 1: (Included sources: mobile combustion from company owned vehicle, fugitive emissions from office air conditioning and office natural gas consumption)	11.2
Scope 2: (Included sources: electricity purchased and used in office premises)	0.8
Scope 3: (Included sources: business travel, employee commuting, waste, purchased goods / services and capital goods -paper and IT)	252.3
Total Emissions, (tCO₂e)	264.3

Total tCO₂ (e) 2022 = 264.3

Total number of ETS PAYE employees = 150 at of end 2022

tCO₂ (e) per employee = 1.76

tCO₂ (e) per million £ of turnover = 12

4 CURRENT EMISSIONS REPORTING

Table 2: Our current emissions reporting

Reporting Year 2023: 6 months (January – June 2023).	
EMISSIONS TOTAL (tCO₂e)	
Scope 1: (Included sources: mobile combustion from company owned vehicle, fugitive emissions from office air conditioning).	33.5
Scope 2: (Included sources: electricity purchased and used in office premises) – 100% renewable tariff for 3 Valentine Place	0
Scope 3: (Included sources: business travel, employee commuting, waste, purchased goods / services and capital goods – 2 leased vehicles, paper and IT assets & software/ services)	104.7
Total Emissions, (tCO₂e)	138.2

Total tCO₂ (e) 2023 (6 months Jan-June) = 138.2

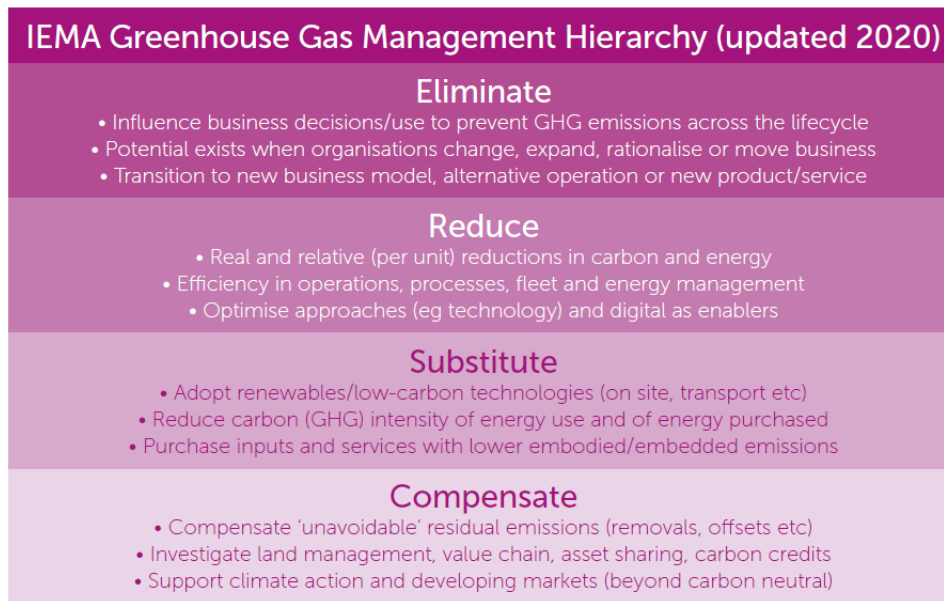
Total number ETS PAYE employees end June 2023 = 163

tCO₂(e) per employee = 0.85

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 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. We introduced an EV car scheme provided by Octopus Energy in August 2022.
- 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.
- Leased a new main office premises in January 2023 (3 Valentine Place - London) which includes energy saving measures such as light sensors and flexible heat and air-cooling systems.
- Implemented a paperless office regime in our offices.
- Through our ESG Framework established 4 Environmental Sustainability working Groups (Carbon, Sustainable Procurement, Contract Environmental Risk & Opportunity, Environmental Training and Awareness). These groups meet monthly and consist of representatives from across our teams (including Director level leads) who actively promote environmental sustainability and carbon reduction in our operations.
- 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, the company has been examining a number of internal initiatives which would ensure the reduction of our absolute carbon emissions by 2050, with the remaining emissions offset to zero via quality 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 as well as strengthening the way in which we embed carbon reduction within our supply chain and our client services. We aim to reduce our absolute emissions by 50% by 2030 based on our 2022 baseline. The company will also adopt fully accredited carbon offsetting projects to achieve the net zero emissions goal by 2050.

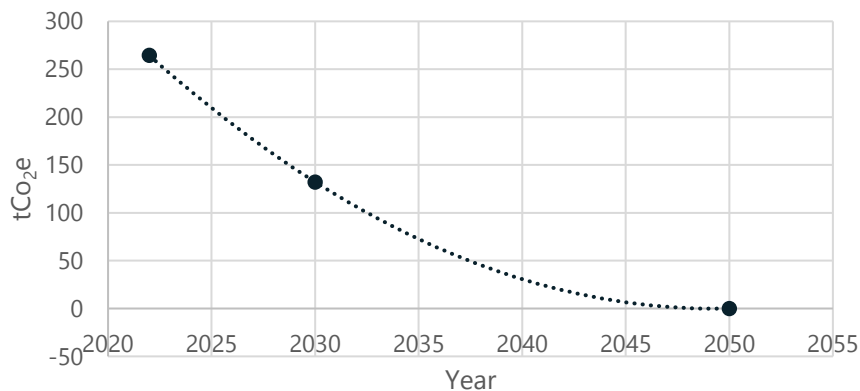
The following additional carbon reduction initiatives are planned for implementation over the next 3 years:

- **End 2023: Sustainable Business Travel Policy.** Introduce a clear approval policy for business related travel to encourage employees to take the lowest environmental, social and economic travel impact options where possible.
- **2023-2024: Procurement.** Review our procurement and supply chain processes to identify specific areas for carbon reduction associated with the goods and services we procure.
- **2023-2024 Supply Chain Management.** 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.
- **2024: Company Growth.** 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 all new lease agreements, as well as mandating the selection of office floorspace with energy saving measures such as light sensors and flexible heat and air-cooling systems.

- **On going: 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.
- **2025: Commitment to science based targets.** 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.
- **On-going: 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 (Bronze level by the end of 2024 and Silver level by end of 2025) by achieving the required certification from the Carbon Literacy Project.
- **2025-2030: Quality certified 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

ETS Carbon Reduction: Projected



In order to progress to net zero by 2050 we are aiming to achieve 50% reduction in our emissions by 2030 based on our 2022 baseline.

We anticipate that through the implementation of the initiatives outlined in this plan, together with regular review of our progress and introduction of new initiatives where required, we will achieve net zero by 2050 as illustrated by our forecast from 2022 baseline in the above graph.

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*¹ and uses the appropriate *Government emission conversion factors for greenhouse gas company reporting*².

Scope 1 and Scope 2 emissions 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) Standard³. ETS does not currently 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 2022 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:

DocuSigned by:

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Damien Gent

Managing Director- Operations

Date: 31.07.23

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

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

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