



Cabinet Office

CARBON REDUCTION PLAN GUIDANCE

Notes for Completion

Where an In-Scope Organisation has determined that the measure applies to the procurement, suppliers wishing to bid for that contract are required at the selection stage to submit a Carbon Reduction Plan which details their organisational carbon footprint and confirms their commitment to achieving Net Zero by 2050.

Carbon Reduction Plans are to be completed by the bidding supplier entity and must meet the reporting requirements set out in supporting guidance, and include the supplier's current carbon footprint and its commitment to reducing emissions to achieve Net Zero emissions by 2050.

The Carbon Reduction Plan should be updated regularly (at least annually) and published and clearly signposted on the supplier's UK website. It should be approved by a director (or equivalent senior leadership) within the supplier's organisation to demonstrate a clear commitment to emissions reduction at the highest level. Suppliers may wish to adopt the key objectives of the Carbon Reduction Plan within their strategic plans.

A template for the Carbon Reduction Plan is set out below. Please complete and publish your Carbon Reduction Plan in accordance with the reporting standard published alongside this PPN.

Carbon Reduction Plan Template

Supplier Name: Amey OW Limited

Publication Date: 7 September 2022

Commitment to achieving Net Zero

Amey OW Limited is committed to achieving Net Zero emissions by **2040**.

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 Year: 2019

Additional Details relating to the Baseline Emissions calculations.

The 2019 baseline detailed below, was calculated using established datasets for Scope 1 and 2 and Category 6 – Business Travel in Scope 3.

The remaining Scope 3 Categories in the scope of this Carbon Reduction Plan have been calculated using new datasets and methodologies which were not established within the business before 2021. These were established to ensure Amey is able to calculate, monitor and reduce our Scope 3 emissions as an integral aspect of our Net Zero Ambition, which was launched in April 2021.

The Carbon Emissions detailed within this Carbon Reduction Plan are calculated in accordance with the Greenhouse Gas (GHG) Corporate Accounting and Reporting Standard and the GHG Protocol Scope 3 Technical Guidance. The operational boundary has been set using the Operational Control approach.

In the period since the last issue of this report, work has been undertaken to gain external verification of our carbon emissions to ISO 14064-1:2018. Therefore, the carbon emissions for the baseline year have been adjusted due to improvements introduced into our data capture and emissions calculations. Our baseline carbon footprint in 2019 decreased by 6.3%, with the distribution of the carbon across the categories being corrected accordingly.

It is anticipated that external verification of our carbon footprints from 2019 onwards will be achieved before the end of 2022.

Baseline year emissions:

EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	4,162
Scope 2	241

Scope 3 (Included Sources)	5,034
Total Emissions	9,437

Current Emissions Reporting

Reporting Year: 2021	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	5,550
Scope 2	372
Scope 3 (Included Sources)	1,717
Total Emissions	7,639

Emissions reduction targets

In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets.

We project that carbon emissions will decrease over the next five years to **7,312 tCO₂e** by **2027**. This is a reduction of **22.5%** from our baseline.

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

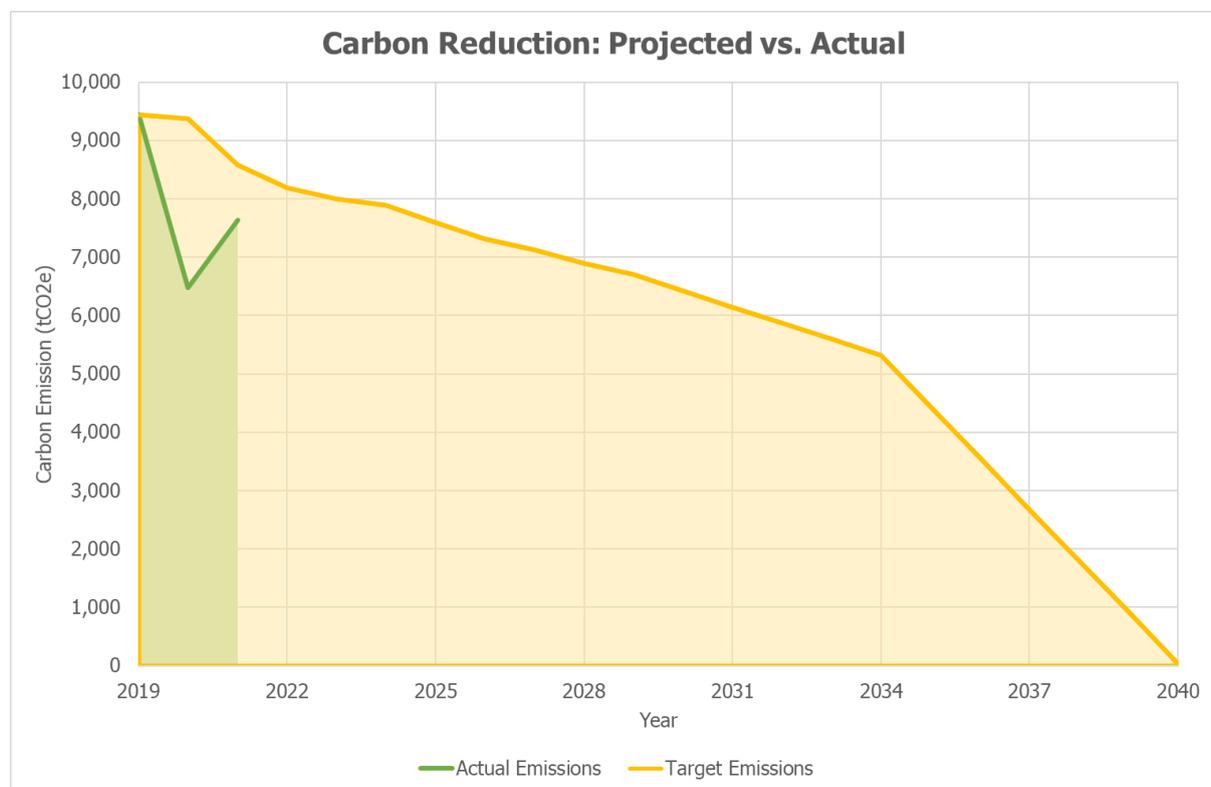


Figure 1: Our Carbon Reduction – Projected vs. Actual for Amey OW Limited

Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the **2019** baseline. The carbon emission reduction achieved by these schemes equate to **1,798 tCO₂e**, a **19%** reduction against the **2019** baseline and the measures will be in effect when performing the contract.

Our environmental management measures

Our framework	Amey Sustainability & Social Value Strategy
Our commitment	Amey Social Value Policy
Our pledge	 The logo for 'Amey Pledge to Net Zero' features a blue square with the text 'PLEDGE TO NET ZERO' in white. To its right is a red and orange circular graphic with the text 'UK Civil Engineers Declares Climate & Biodiversity Emergency' in white.
Our Road Map	Amey's Road Map
Our targets	<ul style="list-style-type: none">• Achieve Scope 1 and 2 Net Zero by 2035, with a minimum of 80% ABSOLUTE REDUCTION on our emissions• Be FULLY NET ZERO, including Scope 3, by 2040.
Our principles	<ul style="list-style-type: none">• REDUCE our energy consumption, becoming more efficient in delivering services• TRANSITION our energy use to low carbon alternatives, with a focus on eliminating fossil fuels from vehicles and plant• INNOVATE the use of tools and materials in our design and operations, working to assess and identify sustainable low carbon alternatives• ENGAGE our customers, industry and suppliers, ensuring circular economy principles are driven through the supply chain.
Our ambitions	<ul style="list-style-type: none">• Effective climate leadership• Climate change and energy recognised, integrated and embedded as central and mainstream business issues• Climate change and energy performance reported, disclosed and transparent• All our projects to prioritise carbon reduction and climate resilience• Support industry innovation, research and development aligned to carbon reduction and climate resilience• New technologies and renewable energies used• Management practices and behaviours changed• Root cause of our carbon emissions addressed and reduced, as well as other associated greenhouse gas emissions

- Risks posed by the consequences of climatic changes lowered in the UK
- Our client’s climate emergency declarations are translated into real actions through our support and product/services provision.

Our people

- Our Professional Environmental and Sustainability Heads and Managers within our Health, Safety, Environment and Quality Support Function
- Competent Environment and Sustainability consultants and a growing team of Carbon Practitioners as part of our Amey Consulting technical services teams
- Our CEEQUAL, BREEAM and Energy Assessors
- Chartered Mechanical and Electrical Engineers, Civil and Structural Engineers and Architects.

Working with our supply chain

Our Social Value Supply Chain Charter and refreshed contract terms.

Working with climate action organisations



Our performance

[social-value-report-2021.pdf \(amey.co.uk\)](https://www.amey.co.uk/social-value-report-2021.pdf)

Our certification schemes

- International Organisation for Standardisation (ISO) 14001 Environmental Management (Amey Consulting certificate no. EMS 535945, Amey Transport Infrastructure (TI) certificate no. EMS 535951) to protect the environment and respond to changing environmental conditions, in balance with socio-economic needs
- ISO 44001 Collaborative Business Relationship (Amey Consulting certificate no. CBR 698791, Amey Transport Infrastructure (TI) certificate no. CBR 738863) for the effective identification, development and management of collaborative business relationships.

Specific carbon reduction measures we have adopted

We have adopted a lifecycle approach to reduce carbon throughout delivery see Figure 2.

Figure 2: Our approach reduces carbon throughout the lifecycle of delivery – from strategy to end of life stages



Our Zero Carbon Pathway: some of our completed carbon reduction projects

Pre-2020 Energy Savings Opportunity Scheme compliance and Point Source Solutions to meet contractual obligations

2020-2021 **Reducing our Footprint:** Back to Basics - understanding the context of our organisation and the environment we operate in today, involving establishing accurate carbon data that goes beyond energy performance and developing Net Zero Road Maps.

A590 dual carriageway resurfacing: We designed the UK's first carbon neutral road improvement project – an £8m National Highways carriageway reconstruction in Cumbria. The works resulted in significant carbon reduction across three main areas: materials reduction and reuse; energy reduction; and transportation efficiencies. In total, the project reduced carbon by up to 43% compared to traditional solutions and saved almost £3m.

Pledge to Net Zero: We became signatories to the Institute for Environmental Management and Assessment (IEMA)'s Pledge to Net Zero, which commits UK businesses to science-based targets to meet the UK's 2050 net zero target and publicly report progress each year.

Effective project carbon management: To integrate reducing carbon as part of the infrastructure projects we deliver and support our clients to move towards net zero, we developed new processes and guidance within our Environmental Management System (EMS) to support carbon accountancy becoming business as usual. These align to the principles of PAS 2080:2015 Managing Carbon in Infrastructure. We have developed Sustainable Materials in Design Guidance to support use of sustainable low carbon alternatives. To drive the behaviours we want consistently throughout the business, we have launched new project carbon performance indicators to monitor our progress.

Switching to purchase 100% green electricity: We transitioned our energy procurement to 100% renewable energy.

Company car choices: We removed all traditional internal combustion engine vehicles from the Company Car Choices List, which now only includes: fully electric vehicles; plug-in hybrids; and petrol/electric hybrids. The list has a good choice of vehicles from a range of manufacturers, with an average CO₂ equivalent of 35g/km.

2021-2022 Transitioning our fleet: A partnership with Hitachi Capital Vehicle Solutions to trial a range of electric vehicles - This helped us better understand the capabilities of current electric vehicles and how they would suit the demands of the contracts Amey delivers.

Scope 3 GHG: During 2021, we began work to better understand our Scope 3 carbon emissions to include our extensive supply chain. This work focussed on verifying the completeness of our Scope 3 data and establishing new data sources where gaps were present. This has ensured emissions across the fifteen Scope 3 categories (as defined within the Greenhouse Gas Protocol) have been considered and materially significant emissions identified.

Carbon literacy: In 2021, 1,400+ Amey Consulting employees completed our 'Project Carbon Reduction' e-Learning module, reinforcing our focus on tackling climate change throughout the lifecycle of designs.

Project Carbon Challenge: To further accelerate our provision of low carbon solutions we piloted our new Project Carbon Challenge. This promotes best practice and encourages all members of our team to challenge traditional approaches, specifications, processes and behaviours. It fosters new thinking to reduce carbon and make projects more sustainable.

Project Carbon performance: To support carbon accountancy being business as usual across Amey, we require our accounts to report project carbon savings centrally. 2021 saw a 50% increase on the 2020 launch year.

Pioneering degree apprenticeship programme: launched in partnership with industry experts, academics at the University of Coventry and the Institute of Environmental Management and Assessment (IEMA). This will equip the next generation of employees with the skills to support the UK in reducing its carbon footprint and growing its infrastructure network sustainably. Fully funded, the five year course gives school leavers the opportunity to work towards an Environmental Management degree while gaining experience on some of our flagship projects.

Net Zero Springboard campaign: to generate new ideas to help the business reach its net zero ambitions. Across the business 262 employees submitted ideas. These were evaluated by sustainability experts and the top 8 were shortlisted for a panel review by the Executive Team. The winning idea was centred around carbon psychology, suggesting that we could map the energy behaviours of our sites and offices using psychology-based questions. This would allow us to create a roadmap to change focussing on key areas for improvement.

Our Net Zero Road Maps

Examples of our Road Maps within our different business units are outlined in Figures 3, and 4 below.

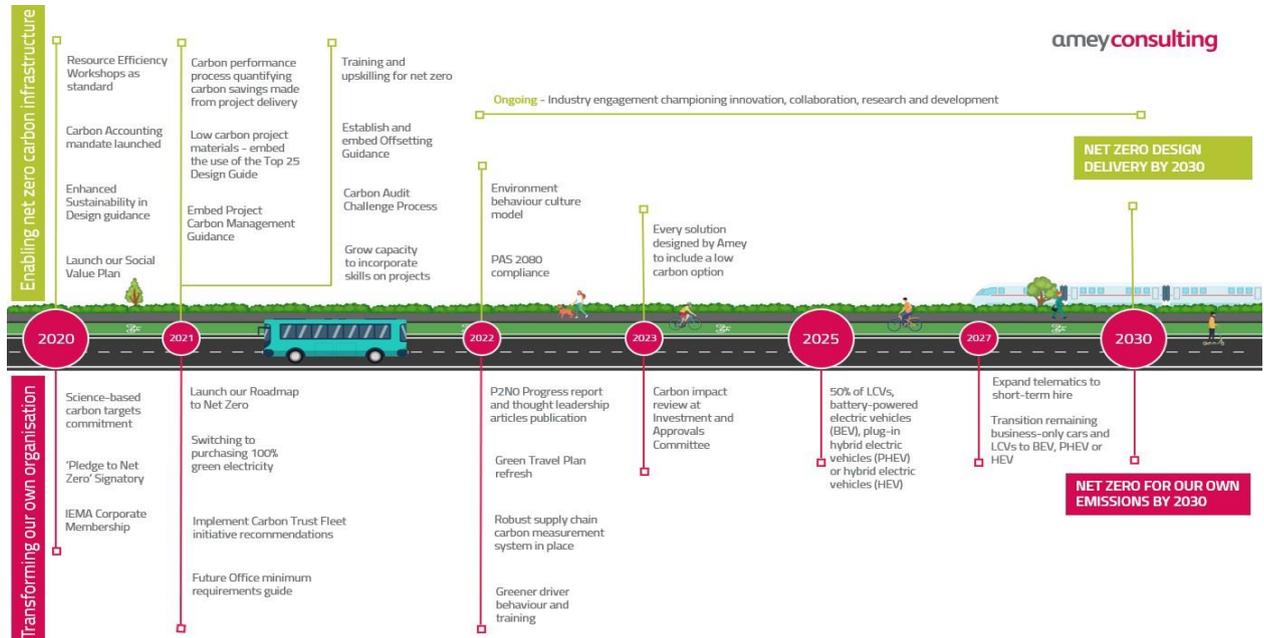


Figure 3: Our Road Map for our Amey Consulting business unit focuses on both reducing our own carbon footprint and reducing carbon for clients

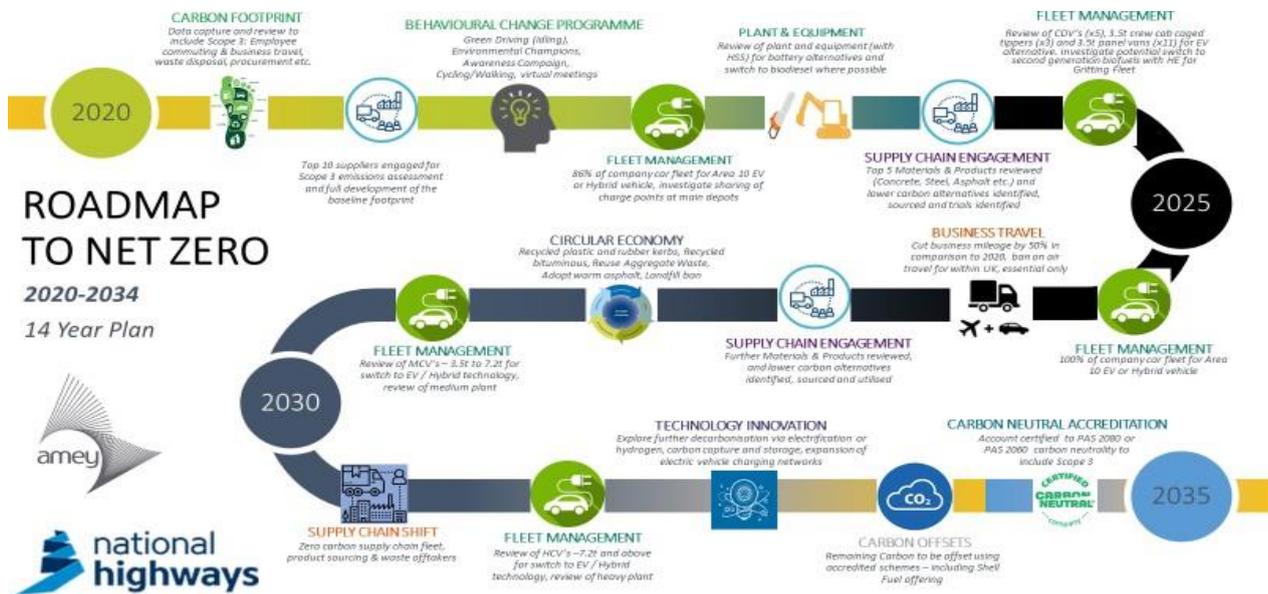


Figure 4: Road Map for our National Highways Area 10 Maintenance and Response contract within our TI business

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

Source	Planned carbon reduction projects
Energy use - fuel	<ul style="list-style-type: none"> • Reducing vehicle movement through improved planning of works and service delivery, and wider roll-out of monitoring technology • Reducing vehicle emissions through green driver training and campaigns to encourage reduced vehicle idling • Reducing consumption through the use of energy-efficient kit and appliances, including: light-emitting diode (LED) lighting; heating and cooling systems; and efficient Information Technology • Continuing to transition our fleet and plant to low carbon fuels, such as electric and hydrogen, as the technology develops and options become available on the market.
Waste generated - operations	<ul style="list-style-type: none"> • Reducing and designing out waste • Innovating with our supply chain to introduce more sustainable materials and products that apply the waste hierarchy and circular economy principles.
Business travel and commuting	<ul style="list-style-type: none"> • Continuing transitioning to flexible working, with increased use of technology • Implementation of the Carbon Trust Amey Fleet Model initiatives
Upstream – fuel and energy	<ul style="list-style-type: none"> • Reducing our fuel and energy consumption • Leasing energy-efficient premises and equipment.
Upstream – transportation and distribution	<ul style="list-style-type: none"> • Innovating with our supply chain to source materials local to our activities, reducing distribution mileage.
Purchased goods/services – contractor emissions/goods	<ul style="list-style-type: none"> • Reviewing and developing new capture systems, where relevant, to ensure the robustness of our supply chain emissions • Reducing carbon emissions through design of low carbon services and infrastructure • Engaging with our supply chain to reduce their travel and fuel use, supporting their transition to low carbon-fuelled fleet and plant.
Empower all to be champions for the environment	<ul style="list-style-type: none"> • Develop ‘Green Behaviour’ tools to support cultural change • Further enhance carbon literacy amongst senior leaders and managers • Refresh our innovation platform to encourage our employees to submit and contribute to quality ideas for environmental change
Lead our clients to respond to the climate emergency and achieve their sustainability aspirations	<ul style="list-style-type: none"> • Develop and grow our carbon capabilities and services • Adopt and increase the number of whole-life carbon assessments that we carry out in client-facing projects • System in place to track all carbon emissions savings across our Accounts and projects • Improve integration of climate change adaption and resilience into our infrastructure design and management services • Promotion and alignment to PAS 2080
Achieve Net Zero and support our suppliers to do the same	<ul style="list-style-type: none"> • Further transition company leased cars to electric/PHEV • Adopt ‘Clean Vehicle Policy’ with >95% telematics across the commercial fleet • External verification of Amey Science Based Target (SBT) • Data platform in place for Scope 3 emissions providing tracked, fully visible emissions and decision focused insight • External certification to ISO 14064

Source and use materials that promote a circular economy

- Launch min. 10% weighting for sustainability across supplier selection
 - Sourcing of materials from renewable sources or that have greater % of recovered and secondary materials
 - Participation in cross industry forums seeking to amend standards and specifications for high impact materials
 - Top 5 highest emitting suppliers to have a committed carbon reduction emission plan in place for the products/services they supply
 - Fully aligned to ISO 20400 (Sustainable Supply Chain)
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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 standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

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) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the Supplier:



Alex Gilbert

Managing Director, Amey Consulting, and active officer for Amey OW Limited

Date: 7th September 2022

Record of revision

Date	Details
31/08/2021	First issue
06/09/2022	Annual review and update

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>

Appendix A

Amey OW Limited is a 100% owned subsidiary of the Amey plc group which operates within the Amey Consulting and Amey Transport Infrastructure business units (two of five internal operating business units) and has its own Managing Director and management team, who are responsible for the delivery of the service.

Each operating business unit operates in accordance with Amey plc group policies and procedures, as adapted to the specific business unit and operating legal entity requirements.

Scope of services and active accounts operated by Amey OW Limited:

Operating legal entity	Amey OW Ltd	
Internal business unit	Transport Infrastructure	Amey Consulting
Scope of service	Management, Operation, Maintenance and Improvement of Highways Infrastructure, including: activities as designer, principal contractor and contractor; provision of street lighting; grounds maintenance; and transport and fleet maintenance.	The Amey Consulting business unit delivers: multi-disciplinary consulting and engineering services in the civil engineering and highway environments; support services for logistics and airports; and strategic and operational management support services on or remote from customer sites.
Active accounts	<ul style="list-style-type: none"> • National Highways Severn Bridges Inspection and Maintenance • Transport Scotland Network Management Contract South West Unit • National Highways Area 10 Maintenance and Response • National Highways Delivery Integration Partnership (AmeySRM) • East Renfrewshire Street Lighting • Inverclyde Street Lighting • Traffic Scotland Infrastructure Contract 2G • Transport Scotland Network Management Contract North East • North East Road Technology Maintenance Contract 	<ul style="list-style-type: none"> • Airports Infrastructure • Area 10 Design Services • National Highways SDF South West • National Highways SDF Midlands • Belfast Highways • Edinburgh Highways • Environment and Sustainability • Eurocentral Highways • Birmingham Design Hub Highways • Liverpool Highways • Property Design • Sheffield Design Hub Highways • South East Design Hub Highways • South West Design Hub • Traffic Scotland Infrastructure Contract 2G • Transport Scotland Network Management Contract North East • Staffordshire Highways • Trafford Highways • Transport Planning • Transport Scotland Network Management Contract South West Design Services • A66 Design Services • Street Lighting Design